Management by geographic area or management specialised by disorder? A mixed methods evaluation of effects of an organisational intervention on secondary mental health care for common mental disorder

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Declaration of Interest

ADT and GT are employed part-time as Consultant Psychiatrists for South London and Maudsley NHS Foundation Trust. AT was a director of the Mood Anxiety and Personality Clinical Academic Group and Honorary Consultant at South London and Maudsley NHS Foundation Trust until October 2014. CP has worked as a psychiatrist for South London and Maudsley NHS Foundation Trust since 2014.
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There are no other competing interests.

Keywords

Hospitals, Psychiatric; Care pathways
Abstract

Background

In 2010, South London and Maudsley NHS Foundation Trust (SLaM) established a programme replacing the borough directorates responsible for adult mental health services with three Clinical Academic Groups (CAGs), each of which took on a subset of adult services straddling all four boroughs. Care pathways were also introduced. We studied the Mood Anxiety and Personality CAG, which took on Assessment and Treatment teams and psychotherapy services. We aimed to understand the CAG programme using realistic evaluation and to assess whether it led to changes in activity and healthcare quality.

Methods

Qualitative analysis was based on interviews and project documents. Quantitative analyses were based on electronic patient records and compared care in community mental health teams (CMHT) and psychotherapy teams before and after CAG implementation. Analyses of activity covered caseload, counts of new episodes, episode length, and number of contacts per episode. We looked at CMHT costs. Analyses of effectiveness covered processes (pharmacological and psychological treatment of depression in CMHTs) and outcomes (effect on the Health of the Nation Outcome Scales total or the CORE-10 total). Analyses of safety examined the rates of self-harm among current or recent CMHT patients. Patient-centredness was represented by waiting time.

Results

The core components of SLaM’s CAG programme were (a) the CAG restructuring itself and (b) the promotion of care pathways: these became interpreted as ‘high-level pathways’, which schematized processes of referral, assessment, treatment, re-assessment and discharge within teams, but abstracted from the details of treatment. The three mechanisms of the CAG restructuring were: increasing oversight, making teams fit the template of team types defined for each CAG (‘CAG-compliance’) and changing financial accounts by grouping services in
new ways: these mechanisms resulted in further reconfigurations. The use of high-level pathways supported service redesign and performance management. In CMHTs and psychotherapy teams activity tended to decrease, but this was probably not due to the CAG programme. CMHT costs were largely unchanged. There was no evidence that the CAG programme altered effectiveness or safety. Effects on waiting times varied but reduced in some cases. Overall, therefore, the CAG programme appeared to have had few effects on quality: we attributed this to the limited effect of the programme on individual treatment.

Conclusions

SLaM’s CAG programme had clear effects on service reconfiguration at team level; high-level pathways changed the ways that managers conceptualised their work. However, our quantitative work indicated no clear effects on quality. Thinking about how to use care pathways in ways that complement ‘high-level’ pathways by supporting the delivery of evidence-based treatments is a strategy that could help SLaM and other providers. Future research should look at the genesis of organisational change and how this is altered through implementation; it should also look at the effectiveness of care pathways in mental health services.

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(494/500 words)
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List of Abbreviations and Glossary

AHSC  Academic Health Sciences Centre
A & E  Accident and Emergency
AMH  Adult Mental Health
CAG  Clinical Academic Group
CI  Confidence interval
CMHT  Community Mental Health Team
CORE-10  Clinical Outcomes in Routine Evaluation 10 item version
CRIS  Clinical Record Interactive Search
EAS  Engagement, assessment and stabilisation
EPA  European Pathway Association
HoNOS  Health of the Nation Outcome Scales
HR  Hazard ratio
IAPT  Improving Access to Psychological Therapies
ICD-10  International Classification of Diseases, 10th edition.
IoP  Institute of Psychiatry
ISU  Involved service user
KCL  King’s College London
KHP  King’s Health Partners
LR  Likelihood ratio
MAP CAG  Mood Anxiety and Personality Clinical Academic Group
NHS  National Health Service
NICE  National Institute of Health and Clinical Excellence
NISU  Non-involved service user
PbR  Payment by Results
PEDIC  Patient Experience Data Information Centre
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<th>Abbreviation</th>
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<td>PRiSM</td>
<td>Psychiatric Research in Service Management</td>
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<td>SLaM</td>
<td>South London and Maudsley NHS Foundation Trust</td>
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<td>SQL</td>
<td>Structured Query Language</td>
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Scientific Summary

Background
This report describes an organisational change within South London and Maudsley National Health Service (NHS) Foundation Trust (SLaM) associated with its entry into the King’s Health Partners (KHP) academic health science centre (AHSC) in 2009. KHP brought together three NHS foundation trusts and two academic institutions, and its aim was to promote better integration of research, education and training, and clinical care for the benefit of patients. The main ‘integration engines’ identified by the AHSC were new operational units called Clinical Academic Groups (CAGs) - single management structures that brought together the academics, clinicians and managers whose work focused on a single specialty or group of related specialties. In SLaM there was an early decision that these new operational units would be management units, and would replace the directorates through which SLaM had previously managed its operations, including the four geographically-based SLaM directorates that had hitherto provided comprehensive adult mental health services to the populations of four boroughs in South and Southeast London. Bar their academic component, the SLaM CAGs closely resembled the services lines (operational units based on diagnosis or need or the nature of the service provided) that other mental health service providers were developing to replace borough-based services at around the same time. This report focuses on the changes associated with one of the SLaM CAGs – the Mood Anxiety and Personality CAG (MAP CAG)–which took on SLaM’s Assessment and Treatment teams and psychotherapy services.

Objectives (research questions)
This study explored three main questions: how the SLaM CAG programme (as exemplified through the MAP CAG) was conceptualized and implemented by SLaM staff; the extent to which there were changes in activity levels and in the quality of patient care over the five years since the start of the programme in 2009 and the extent to which those changes could reasonably be attributed to the CAG programme; and the main lessons that could be learned and applied more generally. The aim was to undertake an evaluation that would: (a) be meaningful to the managers, clinicians, academics, service users, and commissioners who were involved in or affected by the MAP CAG implementation; (b) take advantage of their detailed contextual knowledge; (c) support replication, and; (d) support research utilization.

Methods
The SLaM CAG programme had numerous objectives and multiple, interacting active components, all subject to a changing environment. A combination of qualitative and quantitative methodologies was used.
**Qualitative work**

The qualitative work included semi structured interviews at the start and end of the project and a review of relevant documents. It drew on the methods of realistic evaluation to explore what happened when SLaM introduced CAGs, and to consider the context in which this occurred, the key mechanisms of change, and the outcomes that were produced. Data collection occurred in two phases, during the first four and last three months of the study. Staff respondents were recruited on the basis of their closeness to and knowledge of the programme; service users came from the CAG’s advisory group and via local service user organisations. In Phase 1 five group meetings were held: three service-user only meetings, one MAP CAG staff meeting, and one final joint meeting between people from both categories at which the findings from the first four meetings were presented and discussed. The service user only meetings were co-facilitated by the two service user researchers on the study team, and also attended the final joint meeting in Phase 1. Six senior managers from the MAP CAG were later interviewed to obtain a more detailed understanding of the history and implementation of the MAP CAG, and relevant KHP, SLaM and MAP CAG documents were reviewed. In Phase 2 (months 31 to 33) three senior MAP CAG staff were re-interviewed confirm the understandings developed in Phase 1, identify external and internal developments since the first round of meetings and interviews, and present and seek views on the findings from the quantitative analysis. All the interviews and meetings in both phases were transcribed and analysed using NVivo software to yield key themes; the interview and documentary data were also used to develop an understanding of the programme components and their associated context-mechanism-outcomes

**Quantitative work**

The quantitative work used data covering episodes of care by Community Mental Health Teams (CMHTs) and psychotherapy teams taken from a database of anonymised electronic patient records, combined with internal accounting data that allowed us to estimate costs associated with CMHT care.

Six datasets were defined.

1. Periods of CMHT and psychotherapy team care joined to data on demographics, diagnosis, referral date, face-to-face contacts, costs, previous service use, receipt of psychotherapy including via Improving Access to Psychological Therapies, and outcome measures.

2. 200 randomly selected periods of care under a CMHT, a borough-based psychotherapy team, or both, with a coded diagnosis of depression, including free-text progress notes;

3. current CMHT and psychotherapy caseload per borough on any given calendar day;
4. waiting times in CMHTs and psychotherapy services per borough on any given calendar day;
5. self-harm presentations in Accident and Emergency among current or recent CMHT patients
6. self-harm leading to acute admissions among current or recent CMHT patients

The qualitative interviews gave little indication of which changes to expect, so we chose indicators covering the following domains: cost and activity (caseload, count of new episodes per month, episode length, number of contacts per episode, cost in the year following the start of an episode), effectiveness (subdivided into process—psychotherapeutic and pharmacological treatment of depression—and outcome—effects of treatment on Health of the Nation Outcome Scales total and CORE-10 total), safety (risk of self-harm among current or recent CMHT patients) and patient-centredness (waiting times). Appropriate statistical analyses were performed for each indicator.

Results

Qualitative findings

The need to re-structure SLaM’s services was widely accepted among managers, senior clinicians and academics, even though their reasons for doing so differed somewhat from the KHP vision. Going into CAGs was seen as an opportunity to sort out long-standing difficulties in the Trust; managers also favoured doing so quickly before NHS finances deteriorated further. The structure decided on for the adult mental health CAGs did not have universal support, but there was a willingness to make it work. The MAP CAG’s main services were Assessment and Treatment services mainly serving patients referred from primary care and psychotherapy services. Other adult services were managed by other CAGs, so referrals and transfers across CAGs within the same borough were common.

We identified two components of the CAG programme: (a) the CAG restructuring itself, which placed similar teams together under unified management across boroughs, and (b) the use of care pathways to manage and transform services. We found that the CAG restructuring had led to major change including reorganisations in Croydon and of psychotherapy services, with the mechanisms including increased oversight, changes to accounting arrangements and the need for CAG compliance. Much of the context for these mechanisms was specific to SLaM. The move to CAGs was seen as an opportunity for SLaM to fulfil an ambition to introduce care pathways. The development of care pathways was initially imposed on each CAG, but later turned into an evolving experiment, with the promotion of a general principle that care pathways should be used wherever possible to solve the problems faced by clinical and service managers as they attempted to maintain and develop services. The MAP CAG
made little progress in implementing care pathways like those in the literature that emphasised the delivery of specific treatments. However, what SLaM called high-level pathways—pathways which described in schematic flow the sequences of processes within a particular kind of team—became a ubiquitous part of the vocabulary of clinical and service managers. These were effective via two mechanisms: supporting service redesign and supporting everyday performance management, in both cases by means of providing a means of representing the work process.

There were important influences external to the CAG programme, which in some cases curtailed what the CAGs could do. Initially, financial considerations dominated, determining which parts of the service needed to be urgently reformed. Arguably, the most important outcome by 2014 was that the process of ‘recovering the CAG position’ had been negotiated successfully such that the MAP CAG’s finances were in order. The views of borough-based commissioners also still mattered; even after the introduction of the CAG, some changes came about and other changes were delayed because of the commissioners. SLaM was not able to act autonomously. Another constraint evident by 2014 was the primary care interface. A key idea behind the changes was that service users would not continue to be held in the secondary mental health services but would be discharged back to their GP with a clear care pathway for rapid re-referral if need be. But this depended on capacity in primary care, and SLaM staff argued that it was not yet clear how to build this.

Service users were generally unfamiliar with the CAG programme, bar those few who were part of the MAP CAG Service User Advisory Group. Most of the service users who had experienced the reorganisation were unclear about its rationale, and inclined to see the CAG programme as a cost-cutting exercise. Despite this, service users suggested that it would be possible to construct a persuasive justification for CAGs around predictable pathways through care and better oversight and managerial responsibility for rationally set-out services.

There were still unresolved issues in 2014. In particular, there was an ongoing debate about the configuration of the adult mental health CAGs. The development and implementation of care pathways in principle provided a framework within which service users could move between the CAGs as necessary, but there was evidence that these interfaces between CAGs are not always well handled. Given these pressures, the adult mental health CAGs began in 2014 to develop an Adult Mental Health Plan involving more joint working and coordinated service development—this was beginning to be implemented as the present evaluation ended.

Quantitative findings
The quantitative analyses showed a pattern of mixed results (see Table 8 in the main report). There was clear evidence of reduced activity: only in the borough provided with a new psychotherapy service did caseload increase; all other psychotherapy services and all CMHT saw reduced caseload. This finding that could not be explained in terms of the context-mechanism-outcome configurations detailed above but could be related to the broader context of financial stringency in which CAGs operated. There was no evidence of altered treatment effectiveness: this applied both to processes (prescribing patterns in depression were unchanged and psychotherapy use in depression was either stable or, in one borough, reducing) and also to outcomes (effects of CMHT treatment on the Health of the Nation Outcomes Scales either reduced over time or did not change, with no evidence that these trends altered with the introduction of CAGs, and psychotherapy effects on the CORE-10 did not change). There was also no evidence that CAG implementation had altered trends in self-harm among CMHT patients. There some evidence of increased patient-centredness in the reformed psychotherapy services in the form of reduced waiting times. CMHT costs in two boroughs had altered, but there were no effects on care costs for CMHT patients when home treatment team use and inpatient bed use were included.

Conclusions

- Since October 2010 the MAP CAG has engendered significant and far-reaching changes in the management structures that it took over, and has achieved financial stability.
- The use of care pathways represents an important shift in the culture of management within SLaM, but the CAG programme and the associated care pathways were poorly understood by service users.
- The typical understanding of care pathways (as a form of evidence-based clinical protocol) was replaced in SLaM by a dual meaning that covered the work of a group of teams operated by the CAG and the representation of that work in schematic form (high-level pathways).
- These high-level pathways are primarily tools to improve service management. They have proven to be of use to the organisation but leave many aspects of quality of care unexamined and unmanaged.
- What may be required in addition are care pathways that complement and support the existing high-level pathways, and assist continuing efforts to improve the quality of the healthcare.
- Our research does not directly address the effectiveness of the CAG structure chosen, but our respondents generally did not provide positive reasons for it and the early benefits of that structure as a prompt for service redesign will be non-recurring.
• There was little evidence that the CAG programme affected effectiveness, safety, patient centredness and the costs of CMHT care. While activity generally reduced in the post-CAG period, this was probably not ascribable to the CAG programme.

**Recommendations for research**

• Research into the use and effectiveness of care pathways in mental health services
• Research into the genesis and implementation of managerial innovations.

**Funding**

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We used infrastructure provided by the NIHR South London and Maudsley / Institute of Psychiatry Biomedical Research Centre.

(2173 / 2400 words)
Plain English Summary

In 2009 South London and Maudsley NHS Foundation Trust (SLaM) decided to reorganise its services. Directorates that had each provided mental healthcare to adults living in one of four London boroughs were replaced by a set of Clinical Academic Groups (CAGs) that worked across boroughs and divided the work between them according to similarity of patient problems and needs, rather than where patients live. We used interviews with patients and staff and data in electronic patient records to investigate this re-organisation, looking especially at depression, anxiety and personality disorders.

Patients were unclear about the changes and their consequences. Staff were more positive, and described a radical re-organisation that identified services that were not covering their costs, reassigned patients to restructured clinical teams, and achieved financial stability. The restructuring was supported by the development of ‘care pathways’—originally conceived as a way of standardising care for particular illnesses or problems, but used by SLaM as ‘high-level’ representations of how teams should work.

Broadly, we found that services were now seeing fewer patients. It seemed that CAGs had not changed how effective or safe treatment was. There were mixed effects on waiting times. Just looking at community mental health teams, there was no clear evidence that costs had altered, although significant cost savings had been made in some of the CAG’s specialist services. Our main conclusion for SLaM was that more work is needed to address those aspects of quality of care that the use of ‘high-level’ pathways left unexamined.

246 / 250 words
Chapter 1: Introduction

This report concerns an organisational change within South London and Maudsley National Health Service (NHS) Foundation Trust (SLaM) associated with its entry into the King’s Health Partners (KHP) academic health sciences centre (AHSC) in 2009. This change was centred around new structures called Clinical Academic Groups (CAGs), which replaced the directorates through which SLaM had previously managed its operations. Four of these directorates had provided comprehensive adult mental health services to four boroughs in South and Southeast London, and the transition to CAGs entailed the loss of these geographically-based operational units providing comprehensive adult mental health services to the population within a defined part of SLaM’s geographical catchment. Instead, they were replaced with operational units that divided the work of adult mental services between them by grouping teams and wards with similar functions together and provided services across SLaM’s entire area, and in the case of tertiary services, beyond.

We took a programme evaluation approach to this work. Following Wholey 1983, we understand a programme as ‘a set of resources and activities directed towards one or more common goals, typically under the direction of one manager or a management team’ (p9). We aimed to define the CAG ‘programme’ straightforwardly enough that another organisation seeking to follow SLaM’s example, would know what it would need to do in order to set itself, at least at the outset, on the same track.

Clarity in relation to the central programme components of the CAG reorganisation was, in reality, only achieved incrementally and over the course of the evaluation. Like many programmes, the CAG reorganisation, especially at first, involved many activities whose relative lack of centrality became evident only over time.

The first programme element was straightforward to identify. This was the CAG restructuring itself—which involved taking a set of geographically-based management units and turning them into a new set of service management units in which teams were grouped on the basis of their function or, alternatively, on the basis of the predominant set of problems or diagnoses they treated. As we show in Chapter 3, other NHS Trusts in London also undertook this kind of reorganisation around the same time as SLaM. But unlike SLaM, these other Trusts uniformly referred to these new units as service lines, whereas SLaM called them CAGs. This different terminology reflected the special influence in SLaM’s case of the newly formed AHSC.
What we came to see as the second programme element was initially a requirement imposed as part of the initial CAG development process managed by SLaM and KHP, but which over time developed into an evolving and open-ended experiment: the newly formed CAGs were guided to use care pathways to describe, redesign, develop and performance manage their services, and this process extended beyond the initial restructuring period and into the stable operating period of the CAG that we studied. We came to see the use of care pathways as a precept – that is, a general principle that care pathways should where possible be used as a resource for managing and changing services. However, as we show in Chapter 3, the way that care pathways were introduced, and the exigencies of management led SLaM to a distinctive form of ‘high-level care pathway’ which, while demonstrably effective as a tool for management, deviated in some ways from the usual understanding of care pathways described in the literature. This has the important consequence, we believe, that SLaM’s CAG reorganisation cannot be treated as a case study of the use of care pathways as these are usually understood.

Having identified the core programme components, our intention was to draw on the methods of realistic evaluation in order to explore what happened when SLaM introduced CAGs: for each programme component this would require us to consider the key mechanisms through which change was sought, the changing contexts in which this occurred, and the outcomes produced by the combined effect of mechanism and context.

**Plan of the report**

We do not preface the accounts of our methods and results with a separate review of literature relevant to each programme component. In the case of the CAG restructuring itself, this was because a scoping review of research into service line management indicated that no truly comparable change has been described and studied in the past—the only apparently similar evaluation studied a quite different higher level separation between acute, mental health and primary care service lines in the Veteran’s Administration. In the case of the use of care pathways, this is because of the particularities of SLaM’s practices compared to those described in other studies. However, relevant literature is cited and discussed in other chapters, especially the qualitative results chapter (Chapter 3).

Chapter 2 outlines our main research questions and describes the methods adopted in this study. In our qualitative and some of our quantitative data collection, we focused on the Mood Anxiety and Personality CAG (MAP CAG) and also on those users of SLaM’s services who have a non-psychotic diagnosis. This limitation to one CAG was necessitated by the
resources available to us, and we chose the MAP CAG in preference to the Psychosis CAG only because another large research project affecting the latter was anticipated at the time that research funds were being sought. Studying only a single CAG imposed some limitations of scope, but also allowed us to investigate organisational process in greater depth than had we attempted to evaluate more than one CAG.

Chapter 3 tells the story of the CAG programme, based on documentary evidence and on evidence from interviews with SLaM staff and service users. We look first at the overall circumstances within which this organisational change took place. We then describe the early development of KHP and its CAG programme, provide a brief history of SLaM and the Institute of Psychiatry (IoP), and outline the immediate context within which SLaM decided to reform its operational units as CAGs. We set out what the interviews and documentary sources suggest were the key mechanisms through which change was initially sought at the time of CAG formation. We then use key themes identified from the interviews to set out what actually happened, here contrasting findings in 2012 (our first wave of data collection) with findings in 2014.

Chapter 4 details our quantitative findings, setting out what we were able to discover about activity and costs, effectiveness, safety and patient-centredness, and how these had changed across SLaM’s four boroughs (Croydon, Lambeth, Lewisham and Southwark) since 2009. In Chapter 5, we discuss our findings and consider their implications.
Chapter 2 – research questions and methods

This organisational study explored three main research questions: how the SLaM CAG programme (as exemplified through the MAP CAG) was conceptualised and implemented by SLaM staff; the extent to which there were changes in activity levels and in the quality of patient care over the five years since the start of the programme in 2009 and the extent to which those changes could reasonably be attributed to the CAG programme; and the main lessons that could be learned and applied more generally. As noted above, in order to keep the research to a reasonable scale and scope we studied only one CAG (the MAP CAG) and concentrated on its most important services—those provided through CMHTs and psychotherapy teams. The MAP CAG was selected in preference to the other large adult CAG (Psychosis) because a large programme of research was envisaged in the latter at the time that we were seeking research funding for this study.

We used a combination of qualitative and quantitative methodologies and data to inform our understanding of the SLaM CAG programme and the definition and implementation of the MAP CAG. The qualitative work included two sets of semi structured interviews at the start and end of the project as well as document analysis, and drew on a realistic evaluation framework. The quantitative work identified and analysed data held in a database of anonymised electronic patient records in order to examine, test and develop the qualitative findings.

Realistic evaluation aims to test and refine programme theories by establishing clear and measurable relationships between an intervention like the CAG programme and its outcomes, which are explained by an underlying theory of change. It is sensitive to contextual effects, identifying a series of context-mechanism-outcome configurations. The underlying assumption is that all programmes do generate regular patterns of results, but only when broken down into their underlying components, and when the context in which those components operate is taken into account. Without this disaggregation and consideration of context, programmes can appear to generate very different results from one implementation to another. Realistic evaluation has previously been used in the analysis of similar programmes in the NHS; while it does not provide a methodological prescription but instead a set of principles and orientations, the use of a comparative case study approach is typical. For example, Rycroft-Malone et al. report candidate context-mechanism-outcome mechanisms in the Collaborations for Leadership in Applied Health Research and Care programme, using a comparative case-study approach based entirely on qualitative data; Rycroft-Malone et al. used similar approaches to study protocol-based care in a variety of settings, while
Greenhalgh et al. \textsuperscript{10} reported a realistic evaluation of a large scale change programme for stroke, renal services and sexual health services in part of London, and also included a review of the existing—small—literature on the use of realistic evaluation in healthcare contexts. Notably, the latter authors \textsuperscript{10} report that core tasks of realistic evaluation—definition of programme goals and definition of programme mechanisms—were far from straightforward to perform. Early in the evaluation we attempted to create logic models linking inputs, activities, outcomes and outputs \textsuperscript{11}, but it was ultimately more straightforward to present the necessary context-mechanism-outcome configurations either in narrative form or using diagrams that directly represented those relationships \textsuperscript{5}.

In relation to the SLaM CAG programme our objective was to undertake an evaluation that would (a) be meaningful to the managers, clinicians, academics, service users, and commissioners who were involved in or affected by the MAP CAG implementation; (b) take advantage of their detailed knowledge of the multiple contexts into which the CAG programme was introduced; (c) support replication of the programme elsewhere and (d) support research utilization \textsuperscript{12}. We used the professional, tacit and formal knowledge of various actors in the SLaM CAG programme and the MAP CAG to develop a narrative of change that describes how those involved thought their use of resources (money, authority, expertise, time, etc.) had contributed to the changes identified, and we aimed to develop context-mechanism-outcome configurations to illustrate how specific components of the SLaM CAG programme had achieved that change. A limitation of our ability to use these methods was our restriction to a single site, which reduced the number of different contexts whose effects with a single mechanism could be observed. However, if context is understood as a specific, differentiated element, external to the programme, which determines the outcome in combination with a given mechanism—a formulation that we believe is consistent with the principles of realistic evaluation—then we still observed a plurality of contexts, at least in some cases. For example, the programme was applied across four London boroughs, each of which had pre-existing services that had arisen in different ways and would therefore potentially interact differently with the same programme element; differences could also be observed at the individual team level. Moreover, even with a smaller number of different observed contexts per mechanism, realistic evaluation holds out the hope of better generalisability than standard quasi-experimental methods. Because programmes are typically altered when applied elsewhere, and are also introduced into contexts that differ from the original site, the effects of any programme when viewed as a whole appear inconsistent across implementations. However, the component context-mechanism-outcome relationships, if correctly specified, operate consistently between different sites, allowing different overall patterns of effects to be explained.
Qualitative data collection

The qualitative work was undertaken in two phases, during the first four, and last three, months of the study. In Phase 1 (months 1 to 4 – May to August 2012), five group meetings were held: three service-user only meetings, one MAP CAG staff meeting, and one final joint meeting between self-selected people from both categories who had attended one of the previous meetings. The service user meetings were co-facilitated by the two service user researchers on the team, who also attended the final joint meeting.

The study team prepared a topic guide before the interviews (see Appendix 1).

The service users who attended these meetings came from different boroughs and were drawn from two key groups: four ‘involved’ service users, i.e. those who had a formal but largely voluntary role within the MAP CAG (such as membership of the MAP CAG service user advisory group), and nine ‘non-involved’ service users and one carer, who had no formal role within the MAP CAG. These latter respondents were contacted via local service user organisations known to the MAP CAG’s Patient and Public Involvement Coordinator. The MAP CAG was relatively new at the start of our evaluation, and we anticipated that it might be largely unknown to the non-involved service users, whose interactions with the trust are almost exclusively through contact with clinical teams. We therefore separated these early meetings in order to ensure that each stakeholder group had sufficient opportunity to develop their potentially contrasting views before coming together.

The staff who attended the group meetings were senior individuals who had played a key role in developing the SLaM CAG programme and in defining and developing the MAP CAG, and included clinicians, academics, and managers from the MAP CAG. Subsequently, we performed a few further interviews with staff members either alone or in pairs—some of these were respondents we had already interviewed in the group interviews, while others were new respondents whose knowledge of the programme had been indicated to us by the initial set of respondents. All staff respondents were approached on the basis of their closeness to the programme, rather than attempting to recruit a pre-defined number of people—we aimed to select those people who would be able to explain the programme and its history to us and how it worked.

All the meetings and interviews were recorded and transcribed following prior permission from the participants.
Again taking a lead from our staff respondents, we also gained access to documentary sources relevant to the history of the MAP CAG—these documents were produced by the MAP CAG, by SLaM or by KHP.

Table 1 - Data collection during first phase (months 1 to 4)

<table>
<thead>
<tr>
<th>Group meetings</th>
<th>Number of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service users <em>(non-involved)</em></td>
<td>4 (&amp; one carer)</td>
</tr>
<tr>
<td>Service users <em>(involved)</em></td>
<td>3</td>
</tr>
<tr>
<td>Service users <em>(non-involved &amp; involved)</em></td>
<td>6</td>
</tr>
<tr>
<td>Senior SLaM/MAP CAG staff <em>(managers, clinicians, academics)</em></td>
<td>7</td>
</tr>
<tr>
<td>Joint meeting <em>(3 service users &amp; 3 staff)</em></td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Interviews</th>
<th>Number of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior MAP CAG staff <em>(manager)</em></td>
<td>1</td>
</tr>
<tr>
<td>Senior MAP CAG staff <em>(managers)</em></td>
<td>2</td>
</tr>
<tr>
<td>Senior MAP CAG staff <em>(financial managers)</em></td>
<td>2</td>
</tr>
<tr>
<td>Senior MAP CAG staff <em>(borough services)</em></td>
<td>1</td>
</tr>
</tbody>
</table>

KHP, SLaM and MAP CAG document review and analysis

* *Involved service users* were those who had a formal but largely voluntary role within the MAP CAG (such as membership of the MAP CAG service user advisory group). *Non-involved service users* had no formal role within the MAP CAG.

In Phase 2 (month 27 of the study), follow up interviews were undertaken with senior MAP CAG staff - a service manager, a clinical manager and a clinical academic, each of whom had contributed as Phase 1 respondents - in order to consider external and internal developments since the first round of meeting and interviews, and to present preliminary findings from the quantitative analysis.

Qualitative analysis

The interview and documentary materials were used in two ways.

Firstly, throughout the project we repeatedly read and considered the available materials in order to develop an understanding of the CAG programme and its effects. We experimented with the use of logic modelling, which represents a programme as an assembly of inputs, activities, outputs and outcomes. We also experimented with representing the CAG programme as a set of context-mechanism-outcome configurations. Alongside both methods we drafted narrative text about the CAG programme and its effects. At the fourth group
meeting in Phase 1 and during the Phase 2 interviews we presented some aspects of our understanding of the programme in order to cross-check this with respondents’ understandings. Ultimately, these analyses led to the representations of the CAG programme presented in the project report.

Secondly, we performed a thematic analysis. This was first of all applied to the Phase 1 interview materials. Transcripts were initially reviewed and discussed by two team members. Subsequently, one researcher used qualitative data analysis software (NVivo), in order to identify content relating to our research questions, and to produce an initial set of themes arising from the data, guided at first by the prompts that had been used for the group interviews (see Appendices 1 and 2). The resulting analyses were cross-checked by the second team member. At a project team meeting during Phase 2, three project team members considered the initial set of themes produced during Phase 1, taking account both of the Phase 2 interviews and also the understanding that we had gained through the analysis of documents, and then decided on a modified list of themes for use in the final report (see Appendix 3). One team member recoded the Phase 1 transcripts using these codes, and this coding was rechecked by the other two team members. Each theme and the material under each formed the skeleton of a subsection in the project report.

Subsequent to the Phase 2 interviews in July 2014, transcripts were read through and considered by three project team members, with an initial list of themes developed out of that discussion and to a large extent aiming to code issues that had also been raised in Phase 1. The transcripts were then coded by one team member using NVivo software as above, with the coded data again forming the skeleton of the relevant section in the project report.

**Quantitative work**

Quantitative parts of the evaluation were performed using data held in a database of anonymised electronic patient records that is maintained by South London and Maudsley—the Clinical Record Interactive Search system (CRIS) \(^{13}\).

**Data management**

We worked using the Structured Query Language (SQL) database version of CRIS. All data management was performed using Microsoft SQL Server 2008 and programmed in Transact SQL.
Based on a comprehensive list of the names of all the Trust’s teams and wards we classified those teams into groups of similar services. We then used a fully cleaned table of activity data to define a set of periods under the care of a Community Mental Health Team (CMHT), including all the various forms of CMHT that SLaM has operated, both before and after the CAG reorganisation, and including teams within the current MAP CAG and also outside it—this allowed us to analyse individuals with non-psychotic disorders before and after the reorganisation. The same was done for the psychotherapy teams that, after the CAG reorganisation, constituted the other major part of the MAP CAG’s services. We included the Integrated Psychological Treatment Teams that the MAP CAG formed subsequent to the CAG restructuring but also the predecessor teams that performed a similar function prior to the reorganisation. Some highly specialised services which do not predominantly serve clients from SLaM’s four home boroughs were not included, such as the outpatient clinic associated with the inpatient Affective Disorders Unit.

The same cleaned activity table was used in combination with the Trust’s own internal accounting data to derive unit costs for all forms of community and inpatient care. This required several rounds of error checking, enabling us to define a group of services for which both the financial and activity data were adequate. Unit costs were calculated per ward or team and per financial year, using a currency of cost per single contact for community locations and cost per day for inpatient locations.

Datasets

Six datasets were defined.

The main dataset was defined as follows: to the periods of CMHT care and psychotherapy team care, we joined data on (a) demographics, (b) diagnosis, (c) referral date, (d) whether or not the episode had included a face to face contact, (e) costs of care delivered by community mental health teams during the 365 days after the start of treatment, (f) combined costs of community mental health team care, home treatment team care and inpatient care during the 365 days after the start of treatment, (g) whether or not the episode included at least one face to face contact, (h) previous service use, (i) receipt of secondary care psychotherapy during the episode or within 3 months of its end, (j) receipt of Improving Access to Psychological Therapies (IAPT) individual Cognitive Behavioural Therapy (CBT) during the episode or within 3 months of its end, (k) the Health of the Nation Outcome Scale (HoNOS) near the
beginning and near the end of the episode (l) the CORE-10 near the beginning and near the end of the episode.

The HoNOS\textsuperscript{14} is a twelve-item scale intended for use as a routine outcome measure in community mental health services serving individuals with severe mental illness. It covers symptoms, behaviour and social function. CORE-10\textsuperscript{15} is a short, 10 item version of a longer instrument, CORE-OM, which may be used as a screening tool and outcome measure in psychology and psychiatric services, and specifically addresses symptoms of common mental disorder.

A second dataset (the ‘text’ dataset) comprised 200 randomly selected periods of care under a CMHT, a borough-based psychotherapy team, or both, with a coded diagnosis of depression (F32 – F39 in the International Classification of Diseases Tenth Edition). For these episodes, the full anonymised text of the electronic patient record was extracted, allowing manual coding of prescribing and psychotherapy receipt and referral.

A caseload dataset was defined containing data on current caseload per borough on any given calendar day, with different totals being calculated for CMHT care and psychotherapy. The counts in the dataset were based on individuals with non-psychotic diagnoses, who had been accepted for care by the relevant team and who had not been discharged at the census day.

A current waiting time dataset was also defined. On any calendar day, a current waiting time was defined for any individual who had been referred to the CMHT or psychotherapy team but had neither been seen for a face-to-face contact nor had already been discharged. The current waiting time was defined as the number of days between the referral date and the census day. Adopting this method allowed us to investigate waiting time throughout the study period in a way that was not subject to bias due to censoring.

Next, we defined a dataset of self-harm presentations in Accident and Emergency—the ‘A & E dataset’. A dataset was created identical to the main data set above, except that periods of CMHT care were extended by three months to create a dataset of current or recent CMHT patients. This dataset was then joined to a separate dataset of psychiatric liaison consultations in Accident and Emergency extending from April 2009 to November 2011, selecting only those consultations that had been manually coded as following an episode of self-harm. (This A and E dataset had been prepared for another study\textsuperscript{16}) The dataset was divided into three-month timebands, for each of which we defined whether care coordination was in place,
whether there was either a change of care coordinator or care coordination was ended, whether there was a change in team, and whether discharge occurred.

We also produced a dataset—the ‘acute admission dataset’—that was identical to that above, but based on a dataset of acute hospital admissions taken from Hospital Episode Statistics, selecting only those admissions coded as intentional self-injury using the appropriate ICD-10 X chapter headings.

Finally, we extracted a dataset—the ‘IAPT dataset’—including records of IAPT individual CBT treatment within each borough IAPT service.

Quantitative analysis

Initially, we performed descriptive analysis of clinical, demographic and service use variables, both for CMHT episodes and psychotherapy episodes, based on the main dataset. These analyses included graphs showing the distribution of the scores on each item of the HoNOS (for CMHT episodes) and the CORE-10 (for psychotherapy episodes).

The precise details of the analyses aimed at establishing the effects of the CAG restructuring were not decided in the original study protocol: we hoped that the qualitative interviews would give clear guidance as to the changes in activity and in quality of care that we should expect. Subsequent to the first wave of interviews, which did not in fact provide much clear guidance in this area, we decided to choose a series of indicators that would at least in part cover most domains of quality of care. We grouped these under the following headings: cost and activity, effectiveness (subdivided in process and outcome), safety and patient-centredness. Generally, quantitative analyses were guided by preliminary graphical analyses: for example, where the shape of the curve describing a particular indicator could not clearly be fitted by one or two straight lines we did not attempt to fit a trend line, but instead simply compared values pre- and post- the CAG restructuring. Because of differences at baseline in the configuration of services within boroughs and because commissioning intentions also varied by borough we assumed that there were likely to be differences between boroughs. Therefore, all quantitative analyses either analysed boroughs separately or included interaction terms allowing per borough effects to be examined separately. The choice to analyse by borough was made independently of the attempt to define specific context-mechanism-outcome configurations in the qualitative part of the study.
Activity and Costs

First, we took the caseload dataset (see above) and plotted daily CMHT caseloads for each borough over time. Inspection of these plots suggested that a regression of daily caseload against time, possibly allowing the slope of the fitted line to vary after CAG implementation, would provide a meaningful fit of the data. Each borough was analysed separately. Models in which caseload was regressed only against time ($y = \beta_{\text{time}}X_{\text{time}} + \beta_0 + \epsilon$) were compared using LR testing with models in which caseload was regressed against time, a pre-/post- CAG indicator variable and an interaction term between the latter and time ($y = \beta_{\text{time}}X_{\text{time}} + \beta_{\text{CAG}}X_{\text{CAG}} + \beta_{\text{CAGtime}}X_{\text{CAGtime}} + \beta_0 + \epsilon$). We applied Durbin’s alternative test to the initial analyses to test for the presence of autocorrelation and re-ran them using Newey-West standard errors as necessary.

Turning to the main dataset, we went on to investigate the number of episodes of CMHT care for those with non-psychotic disorders starting per month. Data were analysed from 1st April 2009 to 31st March 2014. For this analysis, and all other analyses based on this dataset, we included only episodes during which there was at least one face-to-face contact. After graphing these monthly counts, we applied a t test to examine whether the mean count of new episodes per month differed before and after CAG implementation.

Next we analysed the length of CMHT episodes, still working with the main dataset. We analysed centile values rather than means as this allowed us to include unfinished as well as finished episodes without necessarily introducing bias: by having a follow-up period longer than the centile value of interest, any episode that is unfinished at the point of data extraction will necessarily fall within a higher centile. We analysed episodes starting between 1st April 2009 and 30th September 2013 and extracted data on 5th March 2015: this allowed us to be confident that any centile point below 521 days would be safely unaffected by censoring. After inspection of plots of key centile values over time, we used a non-parametric test for equality of medians to compare median values before and after CAG implementation.

We went on to analyse the number of contacts per CMHT episode during the year subsequent to the start of the episode, again working with the main dataset. The mean number of contacts per episode was calculated and graphed per six-month timeband. We also performed a linear regression to test the effect of calendar time on the number of contacts, including a random effect to allow for person level clustering and testing whether any linear trend altered before
and after CAG implementation. For this, and the analyses of costs (see below), we studied episodes starting between 1st April 2009 and 31st March 2013.

Building on the preceding analysis, we analysed CMHT costs on their own and CMHT costs added to inpatient costs and home treatment team costs (a more comprehensive measure of costs of adult mental health services). We began by graphing mean costs in the first 365 days following the beginning of the episode, aggregating these over six-month timebands, and graphing each borough separately. Having inspected the curves, we regressed whole-year costs against the pre-/post- CAG indicator variable, including a random effect at person level. The first (unadjusted) analysis did not include other covariates. The second (adjusted) analysis included age, gender, ethnicity, marital status, diagnosis and the number of inpatient days in the preceding one year, the regression model being as follows:

\[
\gamma = \beta_{\text{CAG}} X_{\text{CAG}} + \beta_{\text{age}} X_{\text{age}} + \beta_{\text{gender}} X_{\text{gender}} + \beta_{\text{ethnicity1}} X_{\text{ethnicity1}} + \beta_{\text{ethnicity2}} X_{\text{ethnicity2}} + \beta_{\text{marital1}} X_{\text{marital1}} + \beta_{\text{marital2}} X_{\text{marital2}} + \beta_{\text{diag1}} X_{\text{diag1}} + \beta_{\text{diag2}} X_{\text{diag2}} + \beta_{\text{diag3}} X_{\text{diag3}} + \beta_{\text{IPdays}} X_{\text{IPdays}} + \beta_0 + \epsilon \]

where \(X_{\text{CAG}}\) is an indicator variable for CAG implementation, \(X_{\text{age}}\), \(X_{\text{gender}}\), \(X_{\text{ethnicity1}}, X_{\text{ethnicity2}}\), \(X_{\text{marital1}}, X_{\text{marital2}}\), \(X_{\text{diag1}}, X_{\text{diag2}}, X_{\text{diag3}}\), and \(X_{\text{IPdays}}\) are indicators for age, gender, ethnicity, marital status, diagnosis, and number of inpatient days in the preceding year, respectively.

Analogous analyses were performed for psychotherapy episodes, although we were unable to investigate numbers of contact and costs per year of treatment as the recording of activity in psychotherapy teams was very incomplete. This would have affected our results directly (via contacts themselves) and indirectly (via the calculation of unit costs). Analysis of psychotherapy episode length was restricted to the period 1st April 2009 and 30th September 2012 in order to ensure that the median episode length was not subject to censoring.

Finally we used the IAPT dataset to graph counts of new episodes of individual CBT within the four boroughs’ IAPT team against time.

**Effectiveness: process measures**

Using the text dataset (see p29), we attempted to assess how far treatment for depression followed accepted treatment guidelines such as those produced by the National Institute of Health and Clinical Excellence \(^{18}\). Initial exploration of the free text data indicated that it would be impossible to assess duration of antidepressant treatment and therefore whether switching or augmentation of an antidepressant had happened at a particular point. We therefore adopted the less ambitious aim of documenting patterns of antidepressant use and change in prescribing at the first assessment, alongside documenting whether
psychotherapeutic treatment was already in use at the time of first assessment or whether a referral for psychotherapeutic treatment was made at that point.

We calculated proportions taking antidepressants at the initial consultation, started on antidepressants at that consultation, or not taking antidepressants after that consultation, and compared these proportions before and after CAG implementation. Among those already taking antidepressants, we compared the proportions given an additional treatment, the proportions with a dose increase, and the proportions with a dose decrease. We also calculated the proportion already receiving psychotherapy at the first appointment, the proportion not receiving psychotherapy and not referred for it, and the proportion not already receiving psychotherapy and referred for it. Looking at those not already referred, we examined whether the proportion referred for psychotherapy had changed since CAG implementation. The significance of any differences was tested using the chi-square test.

The structured data on prescribing in CRIS are unreliable because the source electronic patient record does not support electronic prescribing. Therefore, we restricted our analysis of structured data to the receipt of psychotherapy.

Using the main dataset, and selecting individuals under the care of CMHTs, and with a diagnosis of a depressive disorder (ICD-10 F32 to F39) we calculated the percentage of episodes for which an episode of psychotherapy in secondary care or individual CBT in IAPT started during that episode or within 3 months of its end. The percentage with such an episode was graphed per borough and per six-month timeband. Logistic regression, with a generalised estimating equation approach to within-subject clustering, but otherwise without any added covariates, was then used to assess the presence of any trend in psychotherapy use \( \log y = \beta_{\text{time}}X_{\text{time}} + \beta_0 + \epsilon \), and whether any such trend altered before and after CAG implementation \( \log y = \beta_{\text{time}}X_{\text{time}} + \beta_{\text{CAG}}X_{\text{CAG}} + \beta_{\text{CAGXtime}}X_{\text{CAGXtime}} + \beta_0 + \epsilon \).

**Effectiveness: outcome measures**

We used outcome measures collected as part of the Trust’s routine outcome measurement programme to assess whether the change in outcome measures before and after treatment altered over the period straddling the introduction of the MAP CAG.

For CMHT episodes, we used the total score on the HoNOS, which was the most frequently used measure. We used the nearest score to the start of the episode and the nearest score to the end of the episode, excluding any score more than two months away from the reference
point as well as any score later than the middle of the episode (for pre-treatment scores) or earlier than the middle of the episode (for post-treatment scores). Each treatment episode could contribute zero, one or two scores to the analysis. Before embarking on regression analysis, we graphed the mean of the pre-treatment scores and the mean of the post-treatment scores, aggregating data over six-month timebands and per borough. Next, we constructed a series of mixed-effects analysis, including random effects at person and episode level. The dependent variable for the regression was the total HoNOS score, so the treatment effect was estimated by means of an indicator variable. (This method is superior to the direct regression of the difference between pre- and post-treatment scores, as it allows individuals with only one measure to contribute to the analysis). The steps followed were these:

(1) We modelled the size of the treatment effect without entering any covariate in the analysis, but including random effects:

\[ y = \beta_{treatment\ effect}X_{treatment\ effect} + \beta_0 + \upsilon_{person}Z_{person} + \upsilon_{episode}Z_{episode} + \epsilon \]  
(Model 1)

(2) We added a series of covariates (diagnosis, age, sex, ethnicity, marital status, borough within which service was received, calendar time relative to the date of CAG implementation and a post-CAG indicator variable):

\[ y = \beta_{treatment\ effect}X_{treatment\ effect} + \beta_{diagnosis1}X_{diagnosis1} + \beta_{diagnosis2}X_{diagnosis2} + \beta_{age}X_{age} + \beta_{sex}X_{sex} \\
+ \beta_{ethnicity1}X_{ethnicity1} + \beta_{ethnicity2}X_{ethnicity2} + \beta_{marital1}X_{marital1} + \beta_{marital2}X_{marital2} + \\
\beta_{borough1}X_{borough1} + \beta_{borough2}X_{borough2} + \beta_{time}X_{time} + \beta_{MAP}X_{MAP} + \beta_0 + \\
\upsilon_{person}Z_{person} + \upsilon_{episode}Z_{episode} + \epsilon \]  
(Model 2)

(3) We constructed a model in which two-way interaction terms between the treatment effect indicator and important covariates were simultaneously added—this tests for stratum specific treatment effects by borough and diagnosis and also whether the basic treatment effect varies with time:

\[ y = \beta_{treatment\ effect}X_{treatment\ effect} + \beta_{diagnosis1}X_{diagnosis1} + \beta_{diagnosis2}X_{diagnosis2} + \beta_{age}X_{age} + \beta_{sex}X_{sex} \\
+ \beta_{ethnicity1}X_{ethnicity1} + \beta_{ethnicity2}X_{ethnicity2} + \beta_{marital1}X_{marital1} + \beta_{marital2}X_{marital2} + \\
\beta_{borough1}X_{borough1} + \beta_{borough2}X_{borough2} + \beta_{time}X_{time} + \beta_{MAP}X_{MAP} + \\
\beta_{treatment\ effectXdiagnosis1}X_{treatment\ effectXdiagnosis1} + \beta_{treatment\ effectXdiagnosis2}X_{treatment\ effectXdiagnosis2} + \beta_{treatment\ effectXborough1}X_{treatment\ effectXborough1} + \beta_{treatment\ effectXborough2}X_{treatment\ effectXborough2} + \beta_{treatment\ effectXborough3}X_{treatment\ effectXborough3} + \beta_{treatment\ effectXtime}X_{treatment\ effectXtime} + \beta_{treatment\ effectXMAP}X_{treatment\ effectXMAP} + \beta_0 + \\
\upsilon_{person}Z_{person} + \upsilon_{episode}Z_{episode} + \epsilon \]
As appropriate, insignificant interactions were removed, yielding Model 3b.

(4) Assuming that the related two-way interactions were significant, we tested for three-way interactions between (i) treatment effect, diagnosis and time and (ii) treatment effect, borough and time. The aim of this analysis was to examine whether the stratum-specific treatment effects of primary interest varied over time. Insignificant effects were removed from a subsequent model (Model 4b):

\[ y = \beta_{\text{treatment effect}} \times \text{treatment effect} + \beta_{\text{diagnosis1}} \times \text{diagnosis1} + \beta_{\text{diagnosis2}} \times \text{diagnosis2} + \beta_{\text{age}} \times \text{age} + \beta_{\text{sex}} \times \text{sex} + \beta_{\text{ethnicity1}} \times \text{ethnicity1} + \beta_{\text{ethnicity2}} \times \text{ethnicity2} + \beta_{\text{marital1}} \times \text{marital1} + \beta_{\text{marital2}} \times \text{marital2} + \beta_{\text{borough1}} \times \text{borough1} + \beta_{\text{borough2}} \times \text{borough2} + \beta_{\text{borough3}} \times \text{borough3} + \beta_{\text{time}} \times \text{time} + \beta_{\text{MAP}} \times \text{MAP} + \beta_{\text{treatment effect}} \times \text{diagnosis1} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{diagnosis2} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{borough1} \times \text{treatment effect} \times \text{borough1} + \beta_{\text{treatment effect}} \times \text{borough2} \times \text{treatment effect} \times \text{borough2} + \beta_{\text{treatment effect}} \times \text{borough3} \times \text{treatment effect} \times \text{borough3} + \beta_{0} + \epsilon \] (Model 4a)

(5) We looked for evidence that the overall effect of treatment over time altered after CAG implementation. This required the addition of an interaction between the treatment effect and the post-CAG indicator variable, together with a three-way interaction between the treatment effect, the post-CAG indicator and calendar time:

\[ y = \beta_{\text{treatment effect}} \times \text{treatment effect} + \beta_{\text{diagnosis1}} \times \text{diagnosis1} + \beta_{\text{diagnosis2}} \times \text{diagnosis2} + \beta_{\text{age}} \times \text{age} + \beta_{\text{sex}} \times \text{sex} + \beta_{\text{ethnicity1}} \times \text{ethnicity1} + \beta_{\text{ethnicity2}} \times \text{ethnicity2} + \beta_{\text{marital1}} \times \text{marital1} + \beta_{\text{marital2}} \times \text{marital2} + \beta_{\text{borough1}} \times \text{borough1} + \beta_{\text{borough2}} \times \text{borough2} + \beta_{\text{borough3}} \times \text{borough3} + \beta_{\text{time}} \times \text{time} + \beta_{\text{MAP}} \times \text{MAP} + \beta_{\text{treatment effect}} \times \text{diagnosis1} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{diagnosis2} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{borough1} \times \text{treatment effect} \times \text{borough1} + \beta_{\text{treatment effect}} \times \text{borough2} \times \text{treatment effect} \times \text{borough2} + \beta_{\text{treatment effect}} \times \text{borough3} \times \text{treatment effect} \times \text{borough3} + \beta_{\text{treatment effect}} \times \text{diagnosis1} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{diagnosis2} \times \text{treatment effect} + \beta_{\text{treatment effect}} \times \text{borough1} \times \text{treatment effect} \times \text{borough1} + \beta_{\text{treatment effect}} \times \text{borough2} \times \text{treatment effect} \times \text{borough2} + \beta_{\text{treatment effect}} \times \text{borough3} \times \text{treatment effect} \times \text{borough3} + \beta_{0} + \epsilon \] (Model 4b)
(Model 5)

Assuming that the added effects in Model 5 were significant, we tested whether the time trend in borough- or diagnosis-specific treatment effect varied before and after CAG implementation. This required the fitting and testing of a four-way interaction term between treatment effect, time, borough or diagnosis and the post-CAG indicator:

\[ y = \beta_{\text{treatment effect}} \times \text{treatment effect} + \beta_{\text{diagnosis1}} \times \text{diagnosis1} + \beta_{\text{diagnosis2}} \times \text{diagnosis2} + \beta_{\text{age}} \times \text{age} + \beta_{\text{sex}} \times \text{sex} + \beta_{\text{ethnicity1}} \times \text{ethnicity1} + \beta_{\text{ethnicity2}} \times \text{ethnicity2} + \beta_{\text{marital1}} \times \text{marital1} + \beta_{\text{marital2}} \times \text{marital2} + \beta_{\text{borough1}} \times \text{borough1} + \beta_{\text{borough2}} \times \text{borough2} + \beta_{\text{borough3}} \times \text{borough3} + \beta_{\text{time}} \times \text{time} + \beta_{\text{MAP}} \times \text{MAP} + \beta_{\text{treatment effect}} \times \text{diagnosis1} \times \text{treatment effect} \times \text{diagnosis1} + \beta_{\text{treatment effect}} \times \text{diagnosis2} \times \text{treatment effect} \times \text{diagnosis2} + \beta_{\text{treatment effect}} \times \text{borough1} \times \text{treatment effect} \times \text{borough1} + \beta_{\text{treatment effect}} \times \text{borough2} \times \text{treatment effect} \times \text{borough2} + \beta_{\text{treatment effect}} \times \text{borough3} \times \text{treatment effect} \times \text{borough3} + \beta_{0} + \epsilon_{\text{person}} Z_{\text{person}} + \epsilon_{\text{episode}} Z_{\text{episode}} + \epsilon \]  

(Model 6)

For psychotherapy episodes, we followed an identical procedure, except that we used total scores on the CORE-10, which was the more frequently used outcome measure within the psychotherapy services.

Safety

We investigated safety only for CMHT patients as these were the largest group.

As described above, we worked first with the A and E dataset, which comprised a set of CMHT episodes, divided into quarterly timebands and joined to a set of psychiatric liaison consultations for self-harm. This was treated as a multiple failure time dataset—that is, once a
person presented to A and E with self-harm, they were treated afterwards as having entered the ‘at risk’ pool.

First, we calculated raw rates for each quarter and graphed these for each borough, restricting our analyses to those with a non-psychotic disorder.

Next, we constructed a series of exponential regression models:

(1) Looking at each borough separately, we regressed the rate of self-harm presentation against time, whether the period of CMHT treatment ended in the quarter, whether there was a change of team in the quarter, whether there was a change of care coordinator or care coordination finished in the quarter, age, sex and ethnicity. Following exploration of the data, an interaction term was also fitted between change of team and change/end of care coordinator:

\[
\ln \lambda(t) = \beta_{timeband \times timeband} + \beta_{age \times age} + \beta_{sex \times sex} + \beta_{ethnicity1 \times ethnicity1} + \beta_{ethnicity2 \times ethnicity2} + \\
\beta_{CMHT\_end(t) \times CMHT\_end(t)} + \beta_{team\_change(t) \times team\_change(t)} + \beta_{CC\_end(t) \times CC\_end} + \\
\beta_{teamXCC(t) \times teamXCC(t)} + \beta_0 + \varepsilon
\]

(2) We constructed a set of regression models that were identical except that they allowed the trend in the rate of self-harm presentation to vary before and after CAG implementation. We compared the models using LR testing:

\[
\ln \lambda(t) = \beta_{timeband \times timeband} + \beta_{postCAG \times postCAG} + \beta_{timebandXpostCAG \times timebandXpostCAG} + \beta_{age \times age} + \\
\beta_{sex \times sex} + \beta_{ethnicity1 \times ethnicity1} + \beta_{ethnicity2 \times ethnicity2} + \beta_{CMHT\_end(t) \times CMHT\_end(t)} + \\
\beta_{team\_change(t) \times team\_change(t)} + \beta_{CC\_end(t) \times CC\_end} + \beta_{teamXCC(t) \times teamXCC(t)} + \beta_0 + \varepsilon
\]

We then went on to perform an analogous set of analyses with the acute admission dataset described above.

**Patient-centredness**

As only a very small proportion of Trust service users complete Patient Experience Data Information Centre (PEDIC) satisfaction questionnaires and the use of these questionnaires began around the same time as CAG implementation, we did not attempt to analyse patient satisfaction data. Therefore our analysis of patient-centredness consisted of an analysis of waiting time, or more precisely, current wait time among patients accepted for treatment but not yet seen for a face-to-face appointment.
As with previous analyses, we analysed each borough separately, and began with a graphical analysis. For each day, 25th, 50th and 75th centile values of current waiting time were calculated and graphed against calendar time for each borough. Following visual inspection of plots, we performed a t test of mean current waiting time, comparing waiting time before and after CAG implementation. This analysis was performed for CMHT episodes and for psychotherapy episodes.
Figure 1 - MAPLE study design and timeline

Ethics and research governance

Neither ethical nor research governance approval was required for the quantitative analysis which was based on fully anonymised data. The qualitative component of the study was considered and approved by the London (Harrow) Research Ethics Committee (12/LO/0363) and was approved by SLaM’s Research and Development Office. Consent forms and information sheets are appended to this report (Appendix 4)
Chapter 3 – Qualitative Results

In this chapter, we set out the results of our qualitative investigation, which was based on a combination of documentary sources, an initial literature review and interviews with a range of stakeholders.

Section 1 covers the background to the changes. We begin by outlining the history of the organisations involved in or impacted by the CAG restructuring, before moving on to describe how these organisations embarked on the formation of a new AHSC, a process which was the starting point for SLaM’s decision to restructure with CAGs. We then consider what it was intended that the CAG restructuring would achieve, looking at documentary sources, but also setting out what our respondents saw as the need for change, and how their perspectives did or did not align with the public KHP vision. We introduce the topic of the financial climate within the NHS by considering how this may have influenced the decision to restructure and the timing of that restructuring.

In Section 2 we then move on to the CAG restructuring itself, that is, the process of transfer of services from the borough directorates to the new CAGs. We set out the details of the structural changes and the rationale provided for them. We make reference to similar service-line reorganisations in other London mental health service providers. Finally, we set out what, based on our respondents comments, appeared to be the key context-mechanism-outcome configurations associated with the CAG restructuring.

Section 2 moves on to the topic of care pathways. We look at SLaM’s motivations for using care pathways, before an excursus into the literature on care pathways. The remainder of the section describes the MAP CAG’s work to develop and use care pathways, examining which aspects of this work appeared to succeed and why.

In Section 3, we consider the other contextual influences that were of critical importance in determining what changes the MAP CAG made, and why. In particular, we examine financial issues and the influence of relationships with commissioners. Having set out the mechanisms through which change was sought, and the other contextual factors, we then proceed to look at the major changes that the MAP CAG made, and consider the balance of influences over these changes. Finally we consider briefly what effects being part of KHP might have had over the MAP CAG.
In the fourth section, we consider service users. We look at what service users knew about the CAG programme, what their priorities and preferences were, and how the CAG programme related to these.

Finally, we summarise evidence from our second wave of data collection in 2014, looking at ongoing issues and examining what developments there had been since our original investigation.

Section 1: Background to the changes

The Trust and the Institute of Psychiatry: Origins and Development

The organisational change whose results we attempt to evaluate here most centrally involves an NHS Foundation Trust—SLaM—whose history is inextricably linked to a predominantly postgraduate research and teaching institute—the Institute of Psychiatry (IoP) at King’s College London (KCL).

SLaM as an organisation dates from 1999, when it was formed by a merger between the Bethlem and Maudsley NHS Trust, the mental health services provided by Lambeth Healthcare NHS Trust and Lewisham and Guy’s Mental Health NHS Trust. While the latter two Trusts operated services that mainly served their local populations, the Bethlem and Maudsley NHS Trust had less typical features, indeed its two constituent hospitals have a unique place in the history of mental illnesses and their treatment: the Bethlem Royal Hospital is the oldest psychiatric hospital in Europe, having operated continuously since 1247, while the Maudsley Hospital and its associated medical school (now the IoP) were established expressly to support research into mental disorders and their treatment and became pre-eminent in this field in the post-war period. Before the formation of the NHS, the Bethlem Hospital operated as a voluntary hospital, while the Maudsley was supported by the London County Council. After the formation of the NHS, the two hospitals were merged under one board—an arrangement which persisted until the formation of SLaM. Although over time the Bethlem and Maudsley acquired greater responsibility for local service provision—especially in the Camberwell area spanning the London Boroughs of Lambeth and Southwark and, later, in Croydon—to some extent the hospitals retained their original position as providers of specialised tertiary healthcare. At the point of the merger between the three Trusts, a directorate structure was adopted that in part recognised the unusual nature of many of the services provided by the Bethlem and Maudsley as well as the fact that some
services served local populations that extended beyond a single borough. Therefore, as well as borough directorates serving Croydon, Lambeth, Lewisham and Southwark, a National and Specialist Directorate was established which included some services of a tertiary nature as well as some services which served more than one local borough—notably, this included the Maudsley Psychotherapy Department.

SLaM became the 50th NHS Foundation Trust in 2006. By 2010 (the year in which the CAG structure was adopted), it had come to provide services to a population of around 1,200,000 people resident across the London Boroughs of Croydon, Lambeth, Lewisham and Southwark. The structure of those services was in many cases determined by national policy—for example, with Home Treatment teams and Early Onset teams in line with the National Service Framework. It also continued to provide a range of tertiary services.

The Maudsley Hospital was associated from its inception with a postgraduate medical school which, since 1948, has been called the Institute of Psychiatry. Initially the IoP was administered on behalf of the University of London by the British Postgraduate Medical Federation. In August 1997 the British Postgraduate Medical Federation was disbanded, and the IoP was absorbed as a separate faculty into KCL, but remained apart from KCL’s Medical School which itself subsequently merged with the United Medical and Dental Schools of Guy’s Hospital and St. Thomas’ Hospital. The links between SLaM and the IoP have always been very close, with many IoP staff also holding contracts with SLaM, and much research being carried out within SLaM. (In 2014, the IoP was renamed as the Institute of Psychiatry, Psychology and Neuroscience, but is referred to here under the name current during the study period.)

**Academic Health Science Centres**

AHSCs are partnerships between one or more universities and healthcare providers that aim to break down barriers and increase cooperation, and which combine basic and translational health research, clinical care and education in order to improve healthcare. In 2007 a review of healthcare in London recommended that a number of AHSCs should be created, and in 2009 five NHS/university partnerships were designated as AHSCs by the Department of Health in England. One of these was KHP, which brings three NHS foundation trusts—Guy’s and St Thomas’s (GSTT), King’s College Hospital (KCH) and SLaM—together with KCL, which includes the IoP as well as KCL’s Faculty of Medicine. GSTT, KCH and SLaM together provide almost all secondary health care across the London Boroughs of Lambeth.
and Southwark and provide a significant portion of secondary and tertiary healthcare across the rest of South and Southeast London.

Kings Health Partners and Clinical Academic Groups

In order to transcend the traditional distinction between a hospital and its associated medical school, AHSCs typically require new bodies to be created that allow for joint working between the hospital and the university: this may require the modification of existing departmental structures. While preparing for its application for accreditation as an AHSC, KHP developed the concept of a CAG as the means by which the AHSC would operate. In order to demonstrate the practicality of the concept, four pilot CAGs were established in advance of the initial bid for accreditation. It is clear from documentary sources that CAGs have been and continue to be central to KHP’s operation. Thus, first among KHP’s stated objectives was to “drive the integration of research, education and training, and clinical care for the benefit of patients through our new CAGs.” In more recent documents, CAGs are described as the ‘integration engines’ of the AHSC.

An early KHP document describes the structure and rationale of the KHP CAGs as follows:

CAGs will bring together, within a single management structure, academics, clinicians and managers whose work is focused on a single specialty or group of related specialties. Each CAG will be responsible for developing a strategy which addresses the tripartite mission of clinical care, research and education and the CAG leaders will be accountable to KHP for delivery of this tripartite agenda. The CAG model allows the partners to maintain their independent external accountabilities (for clinical delivery by the NHS Foundation Trusts and for academic performance by KCL) which the partners are not permitted to delegate. The CAG leaders will be the principal change agents required to achieve the necessary cultural transformation through supporting changes in structures, policies and incentives.

The relationship between CAGs and the broader KHP governance structure was defined from the outset. Broadly, these governance arrangements comprised a partnership agreement between the partner Trusts and KCL, a Partnership Board, and an Executive. In relation to the CAGs:
[The Executive] will [...] be responsible for the development, co-ordination and performance of CAGs, which will progressively be brought within the formal governance framework through an internal approval process that will ensure they are fit for purpose. This process, which will be managed by the Executive on behalf of the Partnership Board, will require each CAG to demonstrate that it has strong leadership, a coherent strategy and a credible business plan to deliver that strategy. 28

In line with these principles, KHP devoted a small project team to support partner trusts develop CAGs and prepare submissions for CAG accreditation. This team was complemented within SLaM by the creation of a team dedicated to CAG development, with the two teams working closely together. KHP’s original intention was that each CAG should complete three modules with progress documented in three documents (the accreditation submission) that corresponded to each of the modules. In the end, Module 3 was never requested and remained on hold. However, each CAG did make submissions for Module 1 and Module 2. For Module 1, each CAG was required to: (a) define an executive ‘which will be involved in delivering CAG accreditation and the development of the CAG following this’ 29, and (b) define a communication and engagement plan for internal and external use. For Module 2, each CAG was required to (a) set out a clinical strategy addressing quality and productivity and describing CAG innovations, (b) set out a research strategy, and (c) set out an education and training strategy.

A point that is of critical importance for the present evaluation is that CAGs were innovations that proved to be susceptible to different modes of implementation. As noted in the description of CAGs reproduced above 28, the scope of the KHP CAG programme was explicitly limited so that each hospital partner would retain responsibility for the governance of their clinical services. At KCH and GSTT, CAGs were developed as additional structures that supported collaboration between clinicians and academics, and between clinicians in different Trusts, but that did not take responsibility away from the existing management structure for service delivery. However, SLaM elected to develop CAGs as new organisational units that entirely replaced the existing management structures for clinical services—a decision which is the starting point of this evaluation and whose results we therefore seek to evaluate. Each SLaM CAG was incorporated as a separate internal unit that was charged with responsibility for all aspects of the delivery of defined services within a defined budget, and that replaced the operational units that had previously had these responsibilities. This meant that responsibility for both clinical delivery and for the development and implementation of a strategy to deliver KHP’s tripartite agenda of research, education and clinical service were devolved to the same managerial units.
This decision was not solely influenced by the need for SLaM to meet its commitments to the AHSC. Rather, it was intended that the restructuring into CAGs would also lead directly to improvements in the clinical services. How this might occur was stated most clearly and succinctly in a ‘Frequently Asked Questions’ document distributed to SLaM staff in 2009, in which the question ‘how will mental health Clinical Academic Groups actually work?’ was answered as follows:

“Our aim is to provide more specialist services and more focused interventions. We have been discussing for some time the need to improve consistency and have greater clarification about what we are providing and for whom. Care pathway development is an important cornerstone for Clinical Academic Group development.

Other key themes include promoting the integration of physical, psychological and social care, the emphasis on recovery and the interface between acute and mental health services. Our Clinical Academic Groups will be based on a multi-disciplinary approach to care and treatment.

Finally, and crucially, Clinical Academic Groups will empower teams to be innovative. One of the ways we will achieve this is through the development of Service Line Management at SLaM where teams have detailed information about the services they are providing, how effective they are and how much they cost.” 30

As noted in Chapter 1, our view is that the key elements of the CAG restructuring were (a) the restructuring itself and (b) the development of a way of working with care pathways. This early document does not entirely reflect this. In our interviews, we saw little evidence for the CAG restructuring having led to the changes listed in the second and third paragraph quoted above, including the development of service line management at team rather than CAG level. In contrast, the notion of care pathways being the ‘cornerstone’ of CAG development was fully borne out by interview and other documentary evidence, and, moreover, the linkage between care pathway and CAG development postulated here reflects exactly the later course of development, in which care pathways became intertwined with the management of the CAG.

Having sketched out what SLaM’s CAG restructuring was, and how the entry into KHP provided an opportunity for it to happen, we will next consider why SLaM’s leadership might have decided to undertake the restructuring at that particular time. This was a topic that we
discussed with our staff respondents. In the next sections we set out why those respondents thought that there was a need for change, the extent to which the KHP vision aligned or could be made to align with what was perceived to be the right strategic direction for SLaM, and what elements of the external environment might have favoured SLaM’s decision to embark on the CAG programme at the time that it did.

**The need for change**

In mid-2012, around 18 months after the CAG ‘go-live’ date of 1st October 2010, we asked our respondents to reflect on the reasons why SLaM had undergone the CAG programme. Broadly, and for a variety of reasons, our respondents (identified as R1 etc. at the start of quotations) told us that the old system simply wasn’t working anymore

**R6:** We had to look at some other way of delivering services that could meet more needs or a wider range of needs. And we weren’t going to do that with the old model.

Fleshing out what this meant in relation to the MAP CAG, interviewees told us that:

(a) the local services that the MAP CAG covered had developed in different boroughs in

**R5:** very diverse ways that were not always very rational

(b) central psychotherapy services had been managed by a National and Specialist Directorate that took referrals from the boroughs but were not linked to them managerially, with the result that

**R5:** nobody had a coherent vision of psychological therapies in the Trust as a whole

(c) many service users were being maintained within the secondary services when they did not need to be:

**R6:** You had an awful lot of people who would have been singularly maintained on depot medication in small doses or something to that effect and might have been seen once every six months or once every twelve months at an outpatient clinic. That was a hangover from previous generations, and, even amidst all the changes, that group had been maintained within the secondary services when they didn’t actually need to be.

These problems were very long-standing, and often related to issues that had not been resolved when SLaM was created from its three predecessor Trusts. Overall this situation was described by one interviewee as a

**R5:** very mixed bag of parallel and incoherent services
Managers and senior clinical staff working in SLaM were well aware of these problems. They had sought to implement various changes at various times prior to the CAG programme; and, indeed, one reason why SLaM was able to re-structure with CAGs as operational units rapidly (as required by the KHP timetable) was that senior people in SLaM and the IoP had been considering approaches such as service line management and care pathways for some time, and were, therefore, ready to embrace this new initiative. As one interviewee said:

R2: a number of us were very involved in the London mental health group ... so we already had quite a bit of information around the care pathway approaches, pros and cons... so we weren’t starting from scratch ...The timing was perfect

That level of preparation notwithstanding, the organisational and managerial context into which the CAG programme was introduced was complex, and somewhat fluid, and the challenges faced were considerable. In the psychotherapy services, which it will be recalled had been divided between the borough directorates and the National and Specialist directorate prior to the CAG restructuring, previous attempts to make changes had not succeeded:

R1: The whole issue of the psychological therapies has been the elephant in the room for years. It’s the only part of the trust that was never really sorted out at the time [when SLaM was formed].

In the case of Croydon, where the introduction of CAGs would require significant reorganisation of the generic CMHTs existing at that point to create Assessment and Treatment teams and Recovery and Support teams:

R6: It was something that was being talked about – an option of what was available and where it could go in context of how we could provide services... I suppose, if you look across the other boroughs, most of them had already been working that way in some form or fashion

Similarly, the difficulty in recasting the relationship between primary care and secondary care was recognised as a long-standing problem in need of a solution, at least in some parts of the Trust:

R6: (...)there’s been a bit of a history with the GP practices insofar as there has always been a reluctance to take cases back

In all, this meant that the re-organisation was seen as a natural next step:

R2: It was a natural progression is the truth of it and it was almost strengthened and restarted but it was the next logical progression and so it didn’t feel odd to anyone

And the perceived inevitability of this change also meant that, regardless of whether particular individuals were enthusiastic or sceptical about the new structures being
implemented, most worked positively towards the progression of this unavoidable reorganisation:

**R6: People are determined to make the change work**

And this was partly driven by competition between CAGs to make their own section a success:

**R6: (name) would have been influenced by what was happening in all the directorates because he would not want his directorate to fail, he would want it to get as far down the road as possible**

In summary, there was pre-existing awareness of the need for change within SLaM, but previous attempts to make changes had not worked well. The general view was that the CAG programme provided a chance to overcome these difficulties, and had come along at an appropriate time.

**The KHP vision and its relevance**

The decision to form the AHSC and to use CAGs as the ‘integration engines’ of the new partnership was one that had been taken at high level in KCL and the partner NHS Trusts in 2008 and 2009. However, the sense in which CAGs were critical to KHP and the sense in which they were critical to SLaM were not necessarily identical. Our respondents reflected in various ways on the relevance of the KHP vision of integrating research, education and clinical service. As we have noted above, there was, from the start, a contrast between KHP’s vision of CAGs as the means of advancing its ‘tripartite mission’, and the vision espoused by SLaM wherein CAGs would be the vehicles for other desirable changes to services. None of our respondents opposed the vision of clinical and academic integration espoused by KHP:

**R3: It is a sort of vision you can’t quarrel with, anybody would think, yeah that sounds good**

However, it was clear that some leaders and senior managers within SLaM had additional and different reasons for supporting SLaM’s CAG restructuring. Even so, when our respondents discussed the practicalities of clinical work, of management or even the work of transforming evidence into practice, they also described the challenges of relating the KHP vision to the everyday reality of their work. For example, one respondent working mostly in a clinical service told us:

**R3: [a] lot of people also felt: How does this relate to us on the ground and what we’re struggling with? So there was that, and a lot of real enthusiasm in a group of people but a lot of cynicism in another bit.**

A similar view was expressed by another respondent who informed us that
Individual CAGs were required to report regularly to a KHP Performance Council, and these sessions seemed, especially, to have been occasions that brought home the difference between the KHP vision and each CAG’s own aim to provide the best possible service within the resources available:

**R1:** *It’s interesting when we go to the KHP performance council and talk about what we’ve been doing, and the balance between talking about the KHP vision and talking about our external realities.*

Most strikingly, one of our respondents questioned whether KHP and CAGs were the best structures to take research and put it into practice:

**R5:** *We’ve already got in the IAPT services an excellent example of how research has been put into practice, it was done quickly and effectively and attracted a huge amount of money and it didn’t require King’s Health Partners to do any of it.*

In summary, the KHP agenda was generally seen as important as a driver of the SLaM CAG programme, but it was not the only factor. As one interviewee put it:

**R1:** *There were different voices when the CAGs were set up, there were clearly the KHP voice with their tripartite mission, there was also an internal voice which was very much about, is there a different way we can operationally manage services that might help us get through the next few years?*

### The financial environment and the decision to restructure

The financial and economic crisis faced by the world economy in 2007-2008 and its subsequent impact on NHS finances formed the wider background to the KHP CAG programme and SLaM’s decision to restructure using CAGs. In May 2009, the Chief Executive of the NHS, David Nicholson, made it clear that the recent era of increasing growth and capacity had come to an end and warned about the urgent need to plan for a much tighter financial environment: the NHS would need to release unprecedented levels of efficiency savings between 2011 and 2014 – between £15 billion and £20 billion across the service.\(^{31}\)

This was a contextual factor that was of decisive significance for the MAP CAG once established—a point which we will return—but it was also important in securing support for the initial reorganisation and, most of all, for the decision to implement CAGs during the 2010-11 financial year, rather than at a later date. Senior staff within SLaM and the IoP saw the CAG programme as an opportunity to look at services in a new way, and borough
directors saw it as helpful because they were running out of ideas about how to maintain quality while continuing, as required, to take 3% per annum out of the budget for clinical services:

**R3:** They seem to feel that they run out of ideas of how to do that on a borough basis and maybe having new structures that went across boroughs would help with making efficiencies and reorganising services in a different way.

Overall, the harsh financial climate also increased pressure to make changes rapidly before things got even worse. In a sense, the KHP requirement that the CAG programme be implemented quickly was seen as fortuitous for SLaM; despite the rush, several interviewees believed that CAGs were introduced at the correct time:

**R1:** We went into CAGs in quite a rushed manner (...) There was a decision taken that we’d either get on and do it now or we’d leave it for a year later. We were anticipating the degree of disruption about to come through with large efficiency savings and if we’d been trying to do it this year on top of the large amounts of money to come out then we would have been in quite a difficult position.

**Section 2: the CAG restructuring**

**SLaM’s approach to CAG definition**

In the preceding section we described why the change to CAGs was seen as desirable, the extent to which the KHP ‘vision’ was relevant to the everyday reality of running services and how SLaM staff may have had a different view of the purpose of CAGs; we also identified the worsening financial climate as relevant to the decision to reorganise into CAGs as soon as possible. Now we move on to the CAG restructuring itself—the taking of a set of services and their recasting into groups of services managed by CAGs—asking why it took the form that it did. At the end of the section, based on our respondents comments, we set out how we see the CAG restructuring as the first element of the CAG programme and describe the context-mechanism-outcome configurations associated with it.

The decision about how areas of clinical and academic activity would be defined as CAGs was devolved from KHP to the partner Trusts. As noted above, the additional challenge for SLaM was how to define CAGs in such a way that they would both meet the requirements set by KHP and also be fit for the purpose of managing SLaM’s clinical services.

Some existing directorates, such as Mental Health of Older Adults, Child and Adolescent Mental Health, and Addictions already had responsibility for a defined area of practice
throughout the trust and could be reshaped relatively easily as CAGs—indeed the Mental Health of Older Adults directorate was rapidly transformed into a pilot CAG. But SLaM’s adult mental health services were organized geographically, with borough directorates (in Croydon, Lambeth, Lewisham and Southwark) dividing work in adult mental health between four separate management units, each of which was responsible for a different geographical area. The solution to transforming these borough directorates into CAGs was sought primarily in the functionally specialised team types that had already developed at borough level. In some cases, these functional teams had arisen because of government policy and especially the NHS Plan\textsuperscript{22} which mandated the creation of Home Treatment Teams and First Episode Psychosis Teams: these teams were present across the four boroughs. Other forms of specialisation had arisen due to local initiatives, leading to differences between the boroughs. Most notably, Croydon had continued to operate generic CMHTs while the other boroughs had for several years prior to the CAG restructuring operated Assessment and Treatment teams—which mostly dealt with short-term treatment and therefore had a user population with a variety of diagnoses, including many with non-psychotic disorders—and Support and Recovery teams—which predominantly served people with severe mental illness. Croydon was also the only borough that operated a single psychotherapy service—with the other boroughs either using more than one service (Lambeth and Southwark) or being reliant on services provided outside the borough (Lewisham). However, despite the differences between boroughs, and the variable extent to which functional specialisation had occurred, it was reasonably accurate to present the eventual CAG structure as first and foremost “[b]uilding on differentiation and specialisation which has already taken place - e.g. Early Intervention in Psychosis and IAPT”\textsuperscript{32}. When teams were divided between CAGs, a degree of correspondence was ensured between the nature of the population served and the name of the CAGs—so, for example, the Psychosis CAG acquired responsibility for those inpatient wards and community services whose users mostly have severe mental illness, while the Psychological Medicine CAG became responsible for those services physically based in acute hospitals.

However, there were a number of other relevant considerations. The first of KHP’s stated objectives was to drive the integration of research, education and training. Reflecting this, the SLaM CAG groupings were also determined by the need to link to the IoP departments. Turnover and therefore financial viability of the proposed CAGs were also important, meaning that there were many cases in which teams could conceivably been allocated differently but for the need to ensure that each CAG was of an adequate size. It also seemed that persuasive argumentation had had a role, as had political considerations. As one interviewee told us:
R1: one of the reasons why we had Psych Med and MAP CAG separate was there was a lot of interest across KHP about the integration of physical and mental (...) so politically I think that CAG [Psychological Medicine] had to be developed as a separate entity. And of course it’s a very odd CAG because it’s also got all the crisis services in it, and they had to go there to make it a reasonable size.

Why SLaM had chosen to create multiple adult mental health CAGs rather than a single adult mental health CAG was a question that it was difficult to satisfactorily address two years after the decision was taken. We understood that a major limiting factor had been size: a single Adult Mental Health CAG would have been too large to manage.

The seven CAGs that SLaM finally decided upon were:

- Addictions
- Child and Adolescent Mental Health
- Developmental and Behavioural Medicine
- Mental Health of Older Adults and Dementia
- Mood, Anxiety and Personality Disorder
- Psychological Medicine
- Psychosis

Of these seven CAGs, three (Mood, Anxiety and Personality; Psychological Medicine and Psychosis) together covered the adult mental health services that were previously managed by the four borough directorates, alongside some related services previously managed by the National and Specialist directorate. The division of adult mental health services between three CAGs, and the functionally specialised nature of SLaM’s teams meant that it was inevitable that many service users would move not just between teams but also between CAGs, whereas under the previous arrangements, most service users would only access services provided by a single directorate. For example, someone treated within an Assessment & Treatment team, who is admitted via an Accident & Emergency attendance to an inpatient ward would be the responsibility of three CAGs over that period.

Our present evaluation focuses mainly on the services provided by the Mood Anxiety and Personality CAG (MAP CAG). At the time of CAG formation those services comprised:

- Within Lambeth, Lewisham and Southwark, but not Croydon, the Assessment & Treatment teams. These teams provided an entry point to community mental services for primary care referrals, initial assessment and, for those with non-psychotic disorders,
some ongoing management. Longer-term case management for psychotic disorders was provided by the Recovery and Support teams which came to be managed by SLaM’s Psychosis CAG.

- Other services previously managed by the borough directorates and primarily catering for users with non-psychotic disorders, for example psychotherapy services at St. Thomas’ Hospital, serving many Lambeth service users, the Croydon psychology service and the Intensive Psychological Treatment Service at Guy’s Hospital, serving many Southwark service users.
- Tertiary referral services for mood, anxiety and personality disorders previously managed within SLaM’s National and Specialist Directorate, for example, the Affective Disorders Unit and the Crisis Recovery Unit.
- Services mainly commissioned by local boroughs, but, for historic reasons, managed within SLaM’s National and Specialist Directorate, for example the Traumatic Stress Service and the Maudsley Psychotherapy Service
- The Improving Access to Psychological Therapies (IAPT) services for Croydon, Lambeth, Lewisham and Southwark.

These services were, however, only the starting point for the operation of the MAP CAG—indeed, as we shall see there was substantial change in the first years of the MAP CAG’s operation.

The decision to appear to use psychiatric diagnosis as the basis for the names of two of the adult mental health CAGs did not have universal support:

**R5:** *I remember thinking very strongly at the beginning that using psychiatric diagnosis to make any division of anything is manifestly stupid because psychiatric diagnosis is such a feeble construct.*

The debate about what the CAG names meant and whether they were helpful was, for these reasons, a difficult and contentious one, and it went on long after the SLaM CAGs had been formally defined:

**R2:** *We had lots and lots of debates about the fact that the names of the CAGs were unhelpful and we would review it and change it at some point and of course no one has got round to doing that because what else you call them is really tricky. But a very common theme is the names aren’t helpful. The CAGs aren’t about diagnoses, they’re actually around needs and functions and trying to find a sensible way of grouping people together and providing something sensible and standardized.*
However, an interpretation of what CAGs are about in terms of needs and functions does not escape the difficulties associated with the imprecision of psychiatric diagnosis. The precise nature of peoples’ mental health needs is often not clear. This was a particular problem for the MAP CAG because, as we saw above, the services it covered included the initial assessment of people referred from primary care, or presenting as emergencies, with undiagnosed problems:

**R2:** A good example is the group of people that come to us when we’re not even sure yet and indeed have as many social and other difficulties as they might have mental health difficulties... they are a large group... how do you standardise what you do for those people and indeed how do you make decisions about when they should be on one of the other defined pathways.

To this extent the “MAP” CAG was misnamed. As another respondent said:

**R5:** [The MAP CAG] is providing the assessment function, the front door to primary care for everything (...) I spend a lot of time engaging with people with psychosis because you can’t pass them on to the psychosis CAG until they are engaged and assessed and stabilised which is often a very lengthy and time consuming process. It would be a complete mistake to think that we are services for common mental disorders or even for mood, anxiety and personality, we do all sorts of stuff.

**CAGs and service lines**

SLaM was not the only mental health service provider which decided around the same time to recast its borough-based structure into a structure of operational units based on diagnosis or need or the nature of the service provided. In London alone, several other mental health NHS Trust underwent similar reorganisations during the same period, discarding borough-based management structures in favour of structures that were similar to SLaM’s CAGs. This underlying similarity is disguised by the fact that all these other Trusts called their new operational units service lines, while SLaM called them CAGs. Yet, with the exception of their having academic as well as managerial and clinical leadership, SLaM’s CAGs conform just as closely to the concept of a service line, and it would be reasonable to describe SLaM’s CAGs as service lines modified because of the process of entering an AHSC.

Service line management has been defined as ‘a system in which a hospital trust is divided into specialist clinical areas that are then managed, by clinicians, as distinct operational units. SLM enables clinicians and managers to plan service activities, set objectives and targets, monitor financial and operational activity and manage performance. Service-line reporting
provides the necessary data on financial performance, activity, quality and staffing’ 37. Service lines have also been described as ‘the units from which the trust’s services are delivered, each with their own focus on particular medical conditions or procedures and their own specialist clinicians. Each unit also has clearly identified resources, including support services, staffing and finances’ 38. Service line management was introduced into health care in the 1980s in the United States, and since the mid-2000s it has been extensively promoted in the NHS by Monitor, the Foundation Trust regulator, who have sponsored national conferences on the topic and published a set of toolkits intended to support Foundation Trusts on its introduction 39.

Why then did SLaM and these other London Mental Health Trusts attempt to introduce service lines at the same time? The context common to SLaM and the other Trusts was twofold: the support of the Foundation Trust regulator Monitor for service line management; and the structure of the payment mechanisms being developed for mental health services in England. For example, a presentation to Monitor by SLaM’s then Chief Executive (Stuart Bell) noted that mental health Payment by Results (PbR) - at that time under development - would provide funding on a per diem basis at ‘needs-based cluster’ level, with these needs-based clusters roughly representing different levels of service need 32. Re-organisation by service line would group patients according to single funding stream, matching service expenditure to revenue for each stream.

Despite the similar motivation for Trusts to adopt service lines, the resulting structures showed considerable variation (see Figure 2), and we assume that local factors were a major determinant, as was true of SLaM when it defined its CAG structure. There was however a consistent difference between SLaM and the other London providers in the treatment of inpatient services and other crisis services, including home treatment teams: all other providers managed these through a single service line, while SLaM instead divided these acute services between the Psychological Medicine CAG and the Psychosis CAG.
Note. Service lines providing services broadly equivalent to SLaM’s MAP CAG are shown in blue.

Figure 2 - SLaM’s CAG structure compared to service line structures in other London NHS Trusts
Mechanisms of change associated with the CAG restructuring itself

Finally, we turn to the question of the mechanisms through which we anticipated that the CAG restructuring itself might lead to change. Ultimately, we approached this question, and the related question of the effects of care pathways, through the framework of context-mechanism-outcome configurations provided by realistic evaluation\(^2\). The structure of inputs, activities, outcomes and outputs provided by logic modelling\(^1\) did not seem to provide a helpful framework for our developing thinking.

The main mechanism through which our respondents suggested that the CAG restructuring would lead to change was simply expressed as more effective oversight—similar services would be managed together and viewed as a whole, as well as individually. This theory is very similar to that proposed in the literature on service line management, in which the new structures give clinicians and managers joint control over production processes that have previously been separated between different management divisions of the healthcare provider \(^{40}\). How context determines the outcomes of this mechanism really inheres in the idea of oversight: what is seen determines what is done. For example, in the case of SLaM’s psychological therapy services:

R5: (...) nobody had a coherent vision of psychological therapies in the Trust as a whole and of course as soon as we acquired this very mixed bag of parallel and overlapping and incoherent services, we were faced with an immediate management challenge to bring some order and rationality into that (...).

A second mechanism was the initial CAG restructuring precipitating change through the need for ‘CAG-compliance’. Because the CAG management structures were based on a particular model of team structure, in those cases where the local team structure did not fit with that model it was inevitable that further team-level restructuring would occur. This applied to the services in Croydon, which had continued to operate as generic CMHTs up until the introduction of CAGs. These teams needed to be reorganised into separate MAP and Support and Recovery teams (the latter being operated by the Psychosis CAG). The literature on team configurations in adult mental health services is limited to the Psychiatric Research in Service Management (PRiSM) study performed in the 1990s, which compared an area that established separate acute and continuing care teams with an area that established a generic CMHT. Patients in the sector served by the acute & continuing care teams had slightly greater increases in met needs, satisfaction and quality of life compared to patients in the sector served by the generic CMHT, but this was associated with costs that were 10% greater relative to the other sector, although overall costs declined in both sectors \(^{41,42}\). Overall this
suggests that the effects to be expected from changing from generic CMHTs to separate teams are limited. Despite this, SLaM was not alone in making such changes. As one of our respondents pointed out:

\[\text{R1: (..) this kind of move is happening across the country sort of connected with service line management, so most Trusts are developing services that primarily see a group of patients with similar ... umm... kind of PbR clusters (..).}\]

Again, the role of context here is fairly straightforward: only because SLaM had a particular group of services that did not fit with its chosen structure was it necessary to reorganize at team-level. Had SLaM chosen differently in relation to its CAG structure or had the existing team structure been different, this mechanism would not have generated the same outcomes.

A third, and final, mechanism was through changes to accounting arrangements. In essence, the CAG restructuring led to a reassembly of teams that, in the case of the MAP CAG, made financial difficulties at team-level and CAG-level obvious in a way that they had not been before, with the contextual factor of team-level deficits interacting with new CAG-level accounting arrangements to precipitate a major reorganisation of psychology and psychotherapy services. Again, the interaction between context and mechanism was essential: had the MAP CAG not encompassed teams that had received long-standing cross-subsidies from other services now outside the MAP CAG, this mechanism would not have operated.
Section 3: Care pathways

Introduction

In the preceding section we considered the CAG restructuring itself as the first programme element within the CAG reorganisation, and suggested three mechanisms through which the CAG restructuring itself might have led to change. As previously noted, both documentary sources and our respondents placed particular stress on the role of care pathways as means through which CAGs might bring about desirable change. In this section it is to this second programme element that we turn.

Care pathways and consistency of care

A key aim of the SLaM CAG programme was to improve the consistency of the services being offered. This was seen as a matter of principle.

R1: *There were very general principles about consistency of care, consistency of standards, saying to service users this is what you should expect from us, being able to say to commissioners this is what you’re getting or in some cases this is what you should be getting but you’re not and so all those principles were there and I suppose care pathways was always a shorthand for that (…) and it does link with service line management in a way because it’s saying a group of services, a service line this is what’s in it.*

But in practice these principles were not easily applied. The four boroughs had different histories and different levels of resources, and their commissioners had different intentions. Initially there were some unrealistic expectations:

R1: *There were lots of fantasies around when MAP CAG came about… that the borough boundaries are gone and everyone is going to have the same. So boroughs that have felt they’ve not been able to provide the level of service they wanted to would find themselves able to. Clearly that was never going to be the case because of differing investment levels and commissioning intentions.*

In the longer term the different boroughs continued to have different models of care, albeit within the overall framework of the CAG programme. Interviewees suggested that in some ways this was useful because it helped to retain local ownership of the service:

R1: *From an organisational development point of view that one has to be very careful about trying to drive single sets of standards across a large area because we run the risk of alienating local staff and local systems and there’s probably a lot of*
theory around which will say successful services and ones that are generated through local problem-solving, local application and owned by the local system.

It also meant that practice in one borough could be compared with that in another and the model that worked better could then be promoted.

R1: So for example in our community services in (Borough A) we separated out assessment from treatment into two separate services and we pragmatically said OK, let’s see how that works and we’ll do it differently elsewhere. Interestingly and this is very interesting is that I think we believe that the (Borough A) model works better and we’re now going to unpick (Borough B).

The complex nature of mental health needs also created other difficulties for the CAG. Many psychiatric service users have multiple needs. In practice what this meant was that the patient groupings associated with each CAG were not, and could not be, completely discrete. Service users often needed to receive services across different CAGs, and this meant that there were inevitable interfaces and overlaps between the CAGs:

R1: inevitably when you divide services into chunks then you still get interface issues, or competitiveness between the new structures. Of course we are experiencing that now and even though we have various CAGs who apparently are discrete in what they’re trying to achieve, there are significant overlaps because patients move between them.

The care pathways that were developed in each SLaM CAG following CAG definition were intended to provide ‘a clear and thorough description of every stage that is involved in receiving care and treatment at SLaM’ 30, i.e. across SLaM services as a whole, and were quite explicitly intended to address ‘interface issues’ that were potentially increased by the creation of CAGs. Thus:

Many people have mixed needs and will need to receive services across different Clinical Academic Groups. We need to make sure that this happens as smoothly as possible. In order to help us do this, we are developing ‘care pathways’ across all of our services. This involves developing a clear and through description of every stage that is involved in receiving care and treatment at SLaM. This will make it easier for people to understand what they can expect from our services, what happens next and what treatment options are available to them. And it means that there will be a clear process for moving between different services and different Clinical Academic Groups if that is what someone needs.30
What are care pathways?

The last 20 years has been about putting building blocks of services in place, community teams, home treatment teams and different types of services. I think what we're going to be concentrating on for the next 20 years and beyond, is what actually goes on within those teams, what treatment will be available, what's the pathway of care that people are going to have on offer? (Stuart Bell, SLaM CEO, 2011, quoted in 43)

Although care pathways are mentioned in KHP’s application for accreditation as an AHSC 28 and also in the MAP CAG’s accreditation submission to KHP 28,44, their prominence was largely a SLaM-specific element of the transition to CAGs, rather than a requirement imposed by KHP. Our respondents were clear about the importance of the work of developing care pathways:

R2: (...) the work was around the care pathways as being a really important part of operationalising a new way of working (...) the CAGs were structures and they set a framework, the care pathways were actually about how we were going to organise things differently and operationalise.

But as one interviewee reminded us:

R5: the term care pathway is not adequately defined and it’s used in lots of different ways.

and:

R5: The care pathways have been used as the vehicle for rationalising services, but used in a very particular sense.

However, before describing how SLaM set about defining and using care pathways we will review what care pathways are—or more precisely, the variety of understandings that there are of care pathways in the literature. Care pathways have been widely used in the United States, the United Kingdom and elsewhere for many years as a means of monitoring processes and processing times in a wide range of health-care systems, primarily to improve the efficiency of hospital care while maintaining or improving quality 45,46. They also have a potential use as a basis for calculating costs for commissioning or reimbursement of service use, as with the PbR system currently in place in England 4.

However, the literature on care pathways also reports confusion about what they should be called (they have been variously referred to as ‘clinical pathways’, ‘integrated care pathways’, ‘critical pathways’, ‘care plans’, ‘care paths’ and ’care maps’ 47). Evidence to support their
effectiveness has, to date, been weak 7, particularly in mental health 6, but the disparate nature of the literature and wide variety of interventions subsumed under the one description may make evidence synthesis difficult. A summary of the available evidence published in 2011 found some systematic reviews showing that care pathways can improve some outcomes compared with usual care in some hospital settings, but no systematic reviews of their effectiveness in mental health care, and a weak primary evidence base 48.

Care pathways have been defined differently by different commentators. The European Pathway Association (EPA), launched in 2004 (www.e-p-a.org), defines care pathways as “complex intervention[s] for mutual decision making and organisation of predictable care for a well-defined group of patients during a well-defined period” 49 and lists five defining characteristics (see Table 2). Kinsman et al 50 built on the work of the EPA and others when preparing for a Cochrane systematic review on the impact of care pathways 7 and similarly identified five defining characteristics. Not all had to be met when care pathways were identified for the review but the first characteristic was essential, along with three out of the other four (see Table 2).
Table 2 - Defining characteristics of care pathways

<table>
<thead>
<tr>
<th>EPA definition (Vanhaecht 2007)</th>
<th>Cochrane definition (Kinsman 2010)</th>
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<tbody>
<tr>
<td>Care pathways are complex intervention[s] for mutual decision making and organisation of predictable care for a well-defined group of patients during a well-defined period</td>
<td>Clinical pathways are tools used to guide evidence-based healthcare: an intervention is defined as a clinical pathway if it is a structured multi-disciplinary plan of care and at least three of the remaining four criteria are met:</td>
</tr>
<tr>
<td>They have the following characteristics:</td>
<td></td>
</tr>
<tr>
<td>• An explicit statement of the goals and key elements of care based on evidence, best practice, and patients’ expectations and their characteristics</td>
<td>• The intervention is used to translate guidelines or evidence into local structures</td>
</tr>
<tr>
<td>• Facilitation of communication among the team members and with patients and families</td>
<td>• The intervention details the steps in a course of treatment or care in a plan, pathway, algorithm, guideline, protocol or other ‘inventory of actions’</td>
</tr>
<tr>
<td>• Coordination of the care process by coordinating the roles and sequencing the activities of the multidisciplinary care team, patients and their relatives</td>
<td>• The intervention has timeframes or criteria-based progression</td>
</tr>
<tr>
<td>• Documentation, monitoring, and evaluation of variances and outcomes</td>
<td>• The intervention aims to standardise care for a specific clinical problem, procedure or episode of healthcare in a specific population</td>
</tr>
<tr>
<td>• Identification of the appropriate resources</td>
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Overall, and as their common origins would suggest, there are many similarities between the EPA and Cochrane definitions. But a key point of difference is whether or not care pathways should be regarded as complex interventions, leading to on-going debate about how their impact should be assessed. These debates about the nature and value of care pathways are matched by other debates about how they should be developed and implemented. These include discussion about the need to develop different care pathway models in different settings, and about the importance of working on pathway development at different levels and balancing organisational and system requirements and patient involvement.

In the United Kingdom, care pathways were introduced in the 1990s, initially mainly in hospitals, and as tools for designing care processes, implementing clinical governance, and improving the quality of clinical care. In 2007 the Darzi review of healthcare in London...
emphasised the importance of community services (“The hospital is not always the answer”) and of patient involvement, and highlighted the need for care pathways for long-term conditions, including in psychiatric care “to enable service users and staff to know what is expected of different services and service users at each point in their care” 25. Given all this, senior staff in SLaM and the IoP were clear about the potential of care pathways and aware of the importance of implementation: ‘Care pathways can serve as a useful tool to reduce unacceptable variations in service provision and improve quality (e.g. reduce length of stay or multiple assessments, improving multi-disciplinary collaboration, increasing evidence based practice, providing a strategic approach to cost efficiency, enhancing user empowerment and putting recovery & social inclusion principles at the heart of services) but only if they are actually implemented.’ 55 The KHP CAG programme provided a practical opportunity for SLaM and the IoP to introduce care pathways into everyday practice across the trust.

**SLaM’s way of developing care pathways: ‘high-level’ to ‘implementation’**

The SLaM-wide CAG development team anticipated that care pathway development would reflect the same principles that guided the CAGs, and saw it as important that this exercise should be standardized across the SLaM CAGs:

**R2:** *So there’s thousands of bit of paper basically saying to CAGs this is what you’ve got to do in this kind of format, trying to make them kind of do something vaguely similar and we got as far as high-level care pathway (...)*

To this end a series of briefing documents was placed on the CAG development intranet site during 2009/10 which, taken together, illustrate what the CAG development team intended to happen during the initial stages of care pathway development.

An initial ‘Framework for CAG Care Pathway Development’ 55 stressed the need for a holistic approach which built on what had already been done (in SLaM as well as elsewhere) while identifying the processes that would work best in SLaM. It was, therefore, important to involve local stakeholders, including SLaM’s commissioners. The ‘Framework’ also provided guidance on what it described as an ‘appropriate’ level of standardization of the care pathway development process. This included the need to balance a top-down and bottom-up approach, be in line with best practice, support the implementation of payment by results and service line management, and demonstrate delivery through an appropriate set of quality and outcome indicators for the care packages. As this document noted, “there needs to be a common framework for care pathway development but with sufficient flexibility so that there is local ownership” 55. A set of brief guidance notes for the CAG care pathway working groups was also produced at the start of the care pathway development programme 56. These notes
described a ‘common chain’ of linked stages that was intended to apply to all of the care pathways that would be developed—namely (a) entry, (b) assessment, (c) diagnosis/formulation, (d) service and treatment options, (e) review and re-assess and (f) exit. For each of these stages the guidance provided detailed advice about the information that should be sought when developing the pathway. Notably, this guidance explicitly intended SLaM’s care pathways to specify the evidence-based treatment options that should be available within any care pathway. However, and very importantly, there was a assumption from 2009 onwards that the care pathways that would be produced initially would be ‘quite high level in the first iteration and there will be much further work undertaken to refine and robustly implement them’ 55. This distinction between ‘high-level’ (those limited to ‘common chain’ processes described above) and ‘implementation’ pathways (those including specific elements of treatment and care) continued to be an important feature of SLaM’s approach to care pathway development. It was included in the timetable set out for CAG development up to December 2010, six months before the withdrawal of the additional resources made available to support CAG development. The production of high-level pathways was required to be complete by September 2010, at which point these would be published on the Trust Intranet, and these high-level pathways would required to be able to support contract negotiations with commissioners by the end of 2010 57, whereas the iterative process of transforming high-level into implementation pathways was not explicitly timetabled. Therefore, from the outset, the possibility was created that the development of care pathways at SLaM would not progress beyond high-level pathways, which, as they did not specify treatment options and were not intended as a guide for the delivery of individual care, significantly departed from the definitions of care pathways set out in Table 2.

A further briefing document of 10 ‘must-dos’ was also produced 58. This encapsulated the ambitions of the care pathway development exercise, calling it “a radical agenda to transform services”; and also identified the constraints under which it was operating:

Care pathways must:
1. Not simply describe how we do things now – this is a radical agenda to transform services in the most innovative way possible
2. Deliver efficiencies and increase productivity (no waste, no duplication, no delays) – in short, we need to provide quality services with fewer resources (20% to 30%)
3. Reflect the views and preferences of service users and their families as much as possible – “Lean” services are built around what users value and they are evaluated according to user satisfaction
4. Describe the level of consistency required across Trust services and eliminate inequities – we need to identify core standards that are reflected in compliance and target requirements
5. Reflect commissioner requirements as set out in the developing PbR [Payment by Results] framework – we can’t provide what we don’t get paid for
6. Describe service users’ journeys across organisational boundaries (internal & external) so that interfaces are managed effectively – working in partnership with primary care is a key issue
7. Make the best use of research and best practice knowledge – local solutions making the best use of available resources (both people & money)
8. Integrate monitoring and evaluation so that there is a continual cycle of review and development – articulate standards in ways that can be measured using ePJS [SLaM’s electronic clinical record] (e.g. waiting times, duration of interventions, review frequency, assessment & outcome measures)
9. Reflect the guiding principles for CAG development within the overarching strategic framework for the Trust/KHP – including a significant focus on a holistic approach that integrates health and social care interventions and promotes recovery and social inclusion
10. Work in practice – no point having a gold standard care pathway on paper and inadequate services on the ground.

Many of the messages in the earlier guidance were re-emphasised in this less formal document. But the latter was more trenchant, especially about the need be pragmatic and ensure that the care pathways worked in practice and interacted with other components of the CAG programme, such as service line management and reporting.

Reflecting the stage that care pathway development had reached across SLaM’s CAGs by June 2011 when SLaM’s team dedicated to CAG development was dissolved, the final report to SLaM’s board at that stage recommended that the Board consider how to continue care pathway development process and, in particular, oversee a transition from high-level to detailed care pathway development \(^59\). For the most part, and looking across all the CAGs, the report recognised that this work had not yet been undertaken at that point, and that the high-level care pathways were the only outputs from the process of care pathway development that were in regular use. The sense at that time, therefore, was that that process of development was incomplete: “the high level pathways provide the framework but this now needs to be followed through in implementation pathways setting out the detailed guidance and protocols and based on appropriate service configuration.” \(^60\) As noted above,
this implied that the stage of development of care pathways at that time differed importantly 
from the ways that care pathways are ordinarily conceptualised.

**Care pathway development in the MAP CAG**

In contrast to the step-wise development process supported by the SLaM CAG development 
team, there was a very early effort in the MAP CAG to develop detailed clinical protocols for 
MAP services in a way that diverged quite markedly from the SLaM CAG programme 
detailed above. One interviewee told us that:

*R1: when the [MAP]CAG started the care pathways were probably better described 
as clinical protocols; very, very detailed, very [inaudible] about what NICE said (...)*

In line with a recommendation in the 2007 review of healthcare in London 23, this exercise 
used the Map of Medicine pathways as a basis, revising existing maps and developing new 
maps. The task was directed by the original academic director of the MAP CAG, and 
involved vigorous discussion among clinical and academic staff. It resulted in the production 
of a 223 page manual of clinical protocols covering depression, depression in long term 
medical conditions, panic disorder, generalised anxiety disorder, phobia, post traumatic stress 
disorder, obsessive compulsive disorder, and personality disorder 61. They bore little 
resemblance to the common chain of stages referred to in the guidance above 56—instead they 
seemed to have more in common with the detailed content whose inclusion was intended to 
follow definition the high-level pathways.

At that early stage (late 2010 and early 2011) only one MAP pathway conformed to the model 
set out by SLaM’s CAG development team. This was developed from scratch in order to 
describe and manage the activity of Assessment and Treatment teams, and looked very much 
like the high-level pathways produced by the other CAGs. As the 2011 progress report noted: 
“It is distinct from other [MAP] pathways in that it is non-diagnostic and non-evidence based, 
and aims to provide a helpful descriptor of the processes provided by the MAP CAG for 
referrals at a point when they [the patients] necessarily do not have a diagnosis and cannot be 
offered evidence based treatment“ 59. By way of illustration, Figure 3 shows the panic 
disorder pathway and Figure 4 shows the engagement, assessment and stabilisation pathway. 
Later care pathway development occurred alongside service redevelopment, following the 
principle that care pathways should ‘[n]ot simply describe how we do things now (…)’ 58 but 
should also be the basis for redesign. So the reorganisation of the borough-based psychology 
services in Lambeth, Lewisham and Croydon that took place in 2012 also involved the design 
of a high-level care pathway (see Figure 5) at a similar level of abstraction to the Engagement 
Assessment and Stabilization pathway. We were not aware of the MAP CAG having created
any ‘before and after’ pathways—in the case of the Integrated Psychological Treatment Team pathway, it seemed was that the preceding situation was too diverse to represent in this way. Therefore the best guide to how care processes changed over time was provided by the quantitative data (see Chapter 4).

Figure 3 - Panic disorder Map of Medicine
Figure 4 - Engagement, assessment and stabilization pathway
Note. ATT denotes Assessment and Treatment team; IPTT denotes Integrated Psychological Treatment Team.

Figure 5 - Integrated Psychological Treatment Team pathway
When our evaluation was first envisaged in 2011, the detailed pathways based on the Maps of Medicine were presented by key respondents as an important part of what the CAG was doing. By 2012 it was clear that substantial time and energy had gone into their development:

**R2:** what was absolutely most fundamental was getting groups of people together that represented the tripartite perspective and there being massive disagreements and just genuine differences of opinion about what the evidence said or not.

We were told that the MAP CAG:

**R2:** (...) had just the most amazing workshops we ran with lots of very experienced and very knowledgeable people disagreeing with each other and it was fascinating. And I thought that’s what this is all about the process of having the conversations, trying to develop a shared ownership of a piece of work that was, we have to make compromises of ourselves to make this work (...)

But there was also debate about the use of the Maps of Medicine detailed clinical protocols and how difficult it was to take

**R5:** NICE guideline type high level stuff and just slot it into place. It just doesn’t work with the complexity.

And as our interviews proceeded it became clear that these detailed pathways had not been implemented at all on the ground. One interviewee told us:

**R5:** We have care pathways which are written documents saying these are NICE guidelines, treatments for different conditions, on the whole they’ve not been implemented.... we’re not on the whole yet going around saying here is a care pathway that describes the psychological treatments (...)

One suggestion was that the detailed pathways might be useful in the psychotherapy reorganisation that was then gathering pace; but it turned out instead that it was the production of a new ‘high-level’ pathway for the new Integrated Psychological Therapy Teams that appeared to have been important. Similarly, the development of the high-level Engagement, Assessment and Stabilisation pathway was viewed as important—for example, without it, CAG managers would have found it more difficult to represent the work of the Assessment and Treatment teams to external audiences, especially commissioners.

Overall, therefore, the MAP CAG’s use of care pathways over time began to resemble more and more the early stage process of care pathway development set out by the SLaM CAG development team. That is, it developed and used a small number of high-level care pathways mainly as a tool for operational management and service development. It seemed to some extent that the earlier developments based on the Maps of Medicine had been driven by the greater commitment of some clinical and academic stakeholders to guidelines and treatment protocols and, possibly, the personal commitment of those stakeholders to particular therapy
modalities and services, but this enthusiasm had not been sufficient to drive implementation beyond the production of the pathways themselves.

More generally, MAP CAG managers and clinicians were acutely aware of the tension between the two kinds of care pathway, and significant thinking had been done in order to theorise it. One respondent talked about conflicting discourses:

**R1:** Service people think along functional lines and so you have got your two conflicting kinds of discourse in play. One is about what do patients need and for how long will they need it and in what way do they need it? And that conflicts with the diagnostic discourse which talks about what’s the correct evidence based treatment for you and it is interesting watching people struggle with trying to hold that together really.

Several interviewees made a distinction between three linked attributes of care pathways: function, form and content. The high-level care pathways were about function. They were schematic functional descriptions of specific services. In the MAP CAG care pathways of this type were the Engagement, Assessment and Stabilisation care pathway and, once the relevant reorganisation was under way, the Integrated Psychological Therapy Team care pathway.

Describing these high level pathways one interviewee said:

**R1:** In our CAG work we use these terms form and function, and what the care pathways were about was function (...) about saying we want some definable process whereby the patient can go along a track.

‘Form’ referred to the teams and services. In the MAP CAG, form necessarily differed between the boroughs because they came from different starting points:

**R1:** The form is how you do it, what team it is, Community Mental Health Teams or something else and that was secondary because that would always be different across the Trust because historically things developed in different ways.

As this respondent also pointed out, these inevitable differences belied earlier expectations that the care pathways would achieve complete consistency in specific services:

**R1:** That was quite an important bit of learning for us at the beginning because you go out on this journey thinking, right we’re being told that everything should be the same of course very soon very obviously things are not the same.

In relation to content, another interviewee told us:

**R5:** we’ve had a long debate about when a care pathway is about form and when it’s about content and the original [Map of Medicine] care pathways are, they’re all content and no form, so these are the evidence-based treatments and they make no statements whatsoever about where you can get the treatment if you happen to live in...
south Lambeth, so we’ve made no connection between our theoretical pathway and the actual thing that happens to a patient who is referred. However, referring to the need for implementation, this respondent added:

**R5:** I think our challenge now is to bring those together.

The language used at this stage in the MAP CAG’s development was, therefore, one of bringing together these three aspects of care pathway work, and aggregating function, form and content within each care pathway over time as they developed and were implemented in particular contexts. A similar pattern has been described in the literature 45, and we will return to this point in Chapter 5.

**Mechanisms of care pathways**

The picture that we have sought to paint up to this point is of a set of borough directorates transformed into a group of CAGs, with clinical and general managers learning through practice about care pathways and the ways in which they would and would not be helpful as a tool. The incremental way in which the MAP CAG developed these ways of working in relation to care pathways suggested to us that the use of care pathways in the CAG programme should best be considered as a precept. That is to say, the CAG programme entailed, alongside the CAG restructuring itself, a general principle that, wherever possible, care pathways should be used as a tool to solve the problems faced by clinical and service managers as they attempted to maintain, improve and develop the services for which they were responsible. The fact that the Maps of Medicine project work had been effectively abandoned by 2012, while the use of high-level care pathways was extended, represented organisational learning on the part of the MAP CAG. How far this learning had gone, even by 2012, was strikingly put by one of our informants:

**R1:** [F]rom when we were accredited, we ran in within a few months to enormous financial problems, so actually I think what we’ve been doing over the last year is using the care pathways as a way of trying to recover the CAG position and I think we have worked with nearly every team in the CAG now to do some form of restructure, there’s very little that’s part of the CAG that hasn’t been touched.

What we think underpinned these important effects that high-level care pathways had on the ways that general and clinical managers in the MAP CAG worked was the way that the term ‘care pathway’ came to indicate not just the schematic representation of the work of a particular group of teams—the ‘abstract’ care pathway—but also to indicate those teams themselves, and their work—the ‘concrete’ care pathway. In line with this second, concrete understanding, each pathway, once established, also had a corresponding management team,
with reporting lines ultimately to the CAG directors. For example, the April 2014 MAP
ganisation chart shows the Engagement Assessment and Stabilisation pathway’s ‘clinical
pathway lead’ (a clinical manager) and ‘head of pathway’ (a general manager). The melding
of these two aspects yielded two main mechanisms by which change occurred.

The first mechanism was the use of care pathways to support service redesign, most notably
in the case of the creation of Assessment and Treatment teams in Croydon and Integrated
Psychological Treatment Teams in Lambeth, Lewisham and Southwark—these changes were
discussed above, and are discussed again below. Having a care pathway meant that these
services started operating with a clear vision of how they would be expected to deploy their
resources, rather than developing policy and practice ad hoc. Because the MAP CAG’s high-
level care pathways described a required sequence of clinical activities at a high level of
abstraction, this mechanism is consistent with more marked effects on activity and therefore
cost, rather than on aspects of healthcare quality such as safety and effectiveness. (To
anticipate somewhat, this was, very broadly, what our quantitative analyses demonstrated.)

The second mechanism was the use of high-level pathways for ongoing performance
management and smaller service alterations. High-level pathways provided a basis for
selecting performance indicators and targets that could be used to develop systems for
performance measurement. New CAG performance and activity spreadsheets were produced;
a summary CAG scorecard was produced; an entirely new outcomes framework for the new
Integrated Psychological Treatment teams was produced; and trading accounts were
introduced across SLaM. Building management structures around high-level pathways (a)
increased the number of meaningful comparisons made between teams; (b) prompted more,
and better informed, explanations of the sources of variation; and (c) suggested where
changes to managerial and/or clinical activity might lead to improved performance. One early
piece of evidence in support of the use of the new performance information was an early
revision of the Croydon reorganisation in which the busier MAP West team was split into
separate Assessment and Treatment teams: results had seemed to suggest that the Southwark
assessment team was proving better able to cope with a large volume of referrals, so this
system was replicated in Croydon. Again, the operation of this mechanism would be
consistent with greater effects on activity and cost than on other aspects of healthcare quality.

In the case of the CAG restructuring itself, the lack of comparator sites did not prevent us
from considering what might have happened had different teams been put together under
different management arrangements, had pre-existing teams been differently structured or had
team finances been different. Therefore we were able to gain some view of the context-
mechanism-outcome configurations associated with the CAG restructuring. This style of analysis, relying on programme participants’ reasoning about counterfactuals, could not be applied in the case of our examination of how the MAP CAG applied care pathways. Therefore we leave open the question of how context interacted with mechanism to generate the outcomes observed.

Section 4: Influences originating outside the CAG programme

In Sections 2 and 3 above we have attempted to identify the context-mechanism-outcome configurations associated with CAG restructuring and with the use of care pathways. However, we also postulate three mechanisms outside of the CAG programme that, coupled with aspects of the broader context around the programme, and sometimes combined with effects of the CAG programme itself, had observable effects on managerial actions during the study period. The first mechanism was the managerial responsibility to balance the books. The second mechanism was the influence of borough commissioners—including the need to follow through on initiatives that had been agreed with commissioners but which were not part of the CAG’s overall strategy. The third influence was that of KHP itself. In this short section we attempt to sketch these phenomena.

Balancing the books

Our interviews suggested that the most important non-CAG influence was the managerial responsibility to balance the books, combined with a financial situation in which this was particularly challenging. Statements such as ‘we are trying to provide the best possible service within the financial envelope’ occurred frequently in the initial interviews, and appeared to apply regardless of the organisational structure within which managers and clinicians worked. One of our respondents told us that:

**R5:** 
*The number one priority of the CAG is to have a financially viable and coherent set of services to act as a vehicle for anything else because actually it doesn’t make sense to talk about doing more research, delivering outcome measures and so on if you’ve actually got a bunch of services that don’t make sense or are on the verge of collapse.*

Another respondent put it like this:

**R1:** 
*If we were working in a CAG pre our financial problems, we would be probably thinking primarily about how do we actually use the evidence-based therapy, make sure it’s there in all services. What we’re trying to do now is say how can we*
pragmatically get a better quality to people within a reduced envelope of money and try and see as many people as we were before.

And in relation to the relative importance of the local versus the national situation:

**R5:** *Far more important than anything that’s going on at the King’s Health Partners level is the fact that we are now trying to make the biggest reduction in health care resources in the history of the health service and actually that’s what dictates a large amount of what we do on a day-to-day basis.*

In practice, there had been ongoing financial cuts in SLaM services (nationally and at borough level) for some considerable time before the CAG restructuring:

**R1:** *we were doing three per cent [cuts] year on year for probably five years before the CAGs started.*

But the scale of the cuts being predicted in 2009 was of a very different order. These requirements created a huge challenge for the new CAGs:

**R1:** *All of the CAGs have got very big savings targets and some of the CAGs have not managed to reach balanced budgets this year so an enormous amount of stress, so the CAGs have got very, very large targets and they’re nowhere near them.*

The full extent of the difficulties that the MAP CAG was facing was not clear until after the ‘go-live’ date in October 2010. The MAP CAG had inherited a comprehensive set of business plans from the predecessor directorates, along with information on whether these business plans had been carried out or not. All too often they had not:

**R1:** *(…) we went into CAGs just as the money pressures were [starting], looking back on business plans, none of these services had been held to account for savings plans for years.*

The new team running MAP CAG inherited business plans from other directorates that hadn’t been fulfilled and savings plans that had not been met:

**R1:** *[W]e inherited a massive cost when we arrived.*

The business plans also revealed considerable cross subsidy of services:

**R1:** *When I looked at the budget statements for the very first time I was aghast at how many of the services are subsidized and didn’t break even.*

In Section 1, we emphasised how some of these financial problems were made more obvious by the CAG restructuring; however, what made these problems something that needed to be sorted out was not anything particular to the CAG programme but was rather a general responsibility on the part of the CAG’s managers which would have operated regardless of the specifics of the MAP CAG’s situation.
The influence of the commissioners

The SLaM commissioners are borough-based; they expect a certain level of service delivery and outcome for a certain level of investment, and this investment differs between boroughs. As a result, what is achievable in some boroughs is not necessarily achievable in others, it depends on the level and direction of investment. Interviewees were well aware of this; and we were given one example of how it had worked in practice:

R1: *Psychosis in some boroughs will have much easier access to earlier interventions because it’s been specifically commissioned.*

Although commissioners were not involved in the initial process of defining and forming CAGs, they had a large say in how they wanted services to perform and what they expected as outcomes:

R1: *No matter how we might believe in having consistent pathways or services it’s actually our commissioners’ intentions which will drive what we do.*

Well-informed dialogue with them was therefore important.

Generally, managers had to follow through on actions originating prior to the CAG formation, especially where these actions had been negotiated and agreed by borough commissioners. This applied to a reorganisation into separate Assessment and Treatment teams in Southwark and a reorganisation in Lambeth, led by the commissioners, which aimed to shift mental health care out of secondary health care (the Lambeth Living Well Collaborative). In itself, the influence of commissioners on reorganisations also continued to be important after CAG formation. For example, an internal restructuring of the Assessment and Treatment teams in Lewisham and their caseloads to make them fully ‘CAG-compliant’ had to wait several years until the agreement of the commissioners had been gained.

The KHP contribution to the MAP CAG

We have focused mainly on how the transition to CAGs affected the way that SLaM operated its mental health services. However, as we noted at the outset, CAGs were structures intended initially to be the means through which KHP would influence research, training and activity. How then did being part of KHP affect what the SLaM CAGs did?

Being part of KHP meant that each CAG was committed to a set of governance and performance managements additional to those internal to SLaM: as noted on p. 43, there was the KHP accreditation process; there was also the requirement to report regularly to the KHP Performance Council. Not surprisingly, there was some concern about potential duplication
between these two sets of requirements, and even those running these two systems worried that they might be seen simply as a matter of

**R4:** *(...) having the same conversation with a different group of people.*

As the same interviewee suggested, the key question was, therefore:

**R4:** *What did the formal CAG accreditation process [and presumably by extension the ongoing performance management arrangements] truly add over and above what [CAG staff member] was mobilizing with the CAG?*

What was clear from the MAP CAG interviews was that the answer to this question was twofold: the influence of KHP requirements on the performance management processes within SLaM; and the strategic oversight that the KHP processes themselves offered.

As reported on p.43, the SLaM CAGs submitted two accreditation modules to KHP. The second submission concerned the development of strategy in the three areas brought together in the KHP CAGs – clinical strategy, research strategy and training strategy – and this new emphasis on strategy across three dimensions had considerable influence on the pre-existing performance processes within SLaM. The SLaM CAGs were now being asked to look at the bigger, strategic picture, and to do so they needed not only the routine clinical and financial data that had traditionally been the main focus of data collection and performance measurement within SLaM, but also data on research and on education and training.

**R2:** *The performance processes in SLaM have changed drastically as a result of KHP because SLaM now is expecting to ...see the bigger scheme of things around strategy, interfaces and specifically being very upfront about the expectations of the research, education and training as well as the real operational service delivery.*

However, achieving this change was far from straightforward. On one hand, there were already well-established SLaM performance measures for service delivery, and it proved possible to upgrade these rapidly post the CAG reorganisation. But measures for research and education and training were less well-established, and it proved harder to identify and collect usable routine data about these activities. The ongoing efforts to do so were described to us as work in progress. As one interviewee put it:

**R2:** *the machinery on the service side is obviously really well developed and so that clunks away on its own. If you actually want to get the training, education and research information out it’s obviously collected in different places in slightly different ways.*

The KHP Performance Council was intended to bring together information on all three aspects of each CAG’s work and, in the light of that data (taken together), get senior people from that CAG to think strategically about what it was achieving, both as an individual CAG
and also in collaboration with other CAGs, e.g. at the interface of physical and mental health care.

R2: If we’re going to add any value we will find some ways of bringing together information that didn’t used to be brought together and it makes sense to me that of course at this stage it would be the most senior people wanting to do that, look at it, make something of it.

Again, achieving this result was far from straightforward. In principle, the KHP Performance Council provided a forum for that value-added conversation. In practice, interviewees told us, this did not always work well, especially early on. In large part this was because these conversations depended on a good understanding of each CAG and on good data from that CAG (the latter being derived from the CAG’s own reporting systems), and neither of these was available at the start.

R4: It’s only now as the CAGs are coming back for the second and third appearance that I think we’re really getting into so the performance council have some knowledge, some corporate memory of the CAG…. so the work that we’ve started to do over the last two years on the score card, on pulling out where the highlights in terms of clinical service, teaching and research could be covered at the performance council has all been groundwork but we’re still not yet at the point where the CAG comes in and we’ve go right you’re on red for this in clinical service, this in academia, this in teaching. Those will be the three elements in today’s conversation.

Again, this was work in progress.

However, and despite these imperfections, interviewees thought that the discussions with the KHP Performance Council had worked better in the SLaM CAGs than in the acute CAGs, and attributed this to the fact that the former had managerial responsibilities for their services, whereas the acute CAGs did not.

R4: So how do you connect that thought-time back into what difference does it make to patients? And I think in the SLaM CAGs you’ve got a much better chance really of seeing that because there’s a much stronger thread between the leadership and the people who are doing the work on the ground because at least they’re in the same accountability line. Whereas in the acute side we have lots of marvelous conversations about mental health for cardiac patients, but we can’t then go, alright, can you do it?

In summary, much of the work on performance measurement and management for KHP is still work in progress, but it was possible to see how over time, and in combination with the
performance measurement systems being developed by SLaM, it might build into a system covering all three parts of the KHP agenda.
Section 5: Views of service users

In the preceding sections, we sketched a picture of SLaM’s CAG programme, its two key programme components, and some other influences emanating outside the programme. We based this account on documents produced by KHP, SLaM and the MAP CAG and on responses from staff in the MAP CAG. Here we present the contrasting results of our interviews with MAP CAG service users before, in the subsequent section, bringing the story of the CAG programme up to date based on staff interviews performed in 2014.

During 2012, we interviewed thirteen MAP CAG service users, and one carer supporting a service user, in a series of four group interviews. While this was a small sample and cannot be said to represent the ‘service user view’ across SLaM, these service users did come from different boroughs and were drawn from two key groups. They included four ‘involved’ service users (ISUs), i.e. those who had a formal but largely voluntary role within the MAP CAG (such as membership of the MAP CAG service user advisory group), and nine ‘non-involved’ service users and one carer (NISUs) who had no formal role within the MAP CAG. We asked both groups what they wanted from SLaM and SLaM services, and we also explored their understanding of the MAP CAG, sought their views on the information they had been given about the changes and their opportunities to provide feedback, and asked them about their own experience during the re-organisation. Levels of agreement on different issues varied between and within the two groups, and in what follows we note where there was general agreement and where opinions differed although otherwise we have not attributed the remarks quoted to any particular respondent. Overall, these interviews were very different from the interviews that we performed with staff—as noted earlier in this chapter, the decision to form CAGs and the decision to reorganise SLaM using CAGs were taken at high-level within KHP and SLaM, with any consultation with service users occurring later in the process.

Understanding of the MAP CAG

All the service users reported initial confusion about the aims and objectives of the MAP CAG; they also noted that this appeared to be shared by some MAP CAG clinical staff. However, it was also clear that some, but not all, of this confusion had abated by the time the interviews were conducted in 2012. The ISUs demonstrated a good understanding of the CAG re-organisation and what it was seeking to achieve, and recognised the possibilities of
moving from wide-ranging services that were geographically based to more specialist care within the CAGs. One member of this group told us:

**Involved service user:** *I think it’s a good idea to specialise in different aspects of mental illnesses, different things... do one thing well rather than many things sort of not so well.*

On the other hand, the NISUs were more inclined to say that, despite a lot of talk about the changes, they were still uncertain about what those changes really meant on the ground. This group also reported confusion about the relation between the CAG programme and the NHS-wide budget cuts that were introduced at the same time:

**Non-involved service user:** *I just thought this was just part of, because the new government had come in, it was just a way of cutting costs and just redistributing teams in a new way... I didn’t realise that it was part of an ongoing programme.*

**Getting information about the changes**

During the development of the CAG programme a considerable volume of information was made available through the SLaM website, and there was widespread consultation with relevant stakeholders, including service users. This communication was, therefore, a two-way process. There were also ongoing formal opportunities for service users to provide feedback about their own experience of SLaM services through a variety of mechanisms, many of which were already in place prior to the CAG programme. These included SLaM service user advisory groups, a yearly SLaM-wide patient survey, and ongoing data collections related to the PEDIC data collection and the Patient Experience Tracker. Within the MAP CAG, there were the local service user groups and networks in the four boroughs (such as the Touchstone Centre and the SUN group in Croydon), and their associated websites. There were also informal opportunities for exchange of information between staff, service users and carers during service delivery.

As a group, the ISUs were aware of the efforts to tell people about the CAG programme, and, in particular, cited the large-scale meetings designed to inform stakeholders. But they were concerned about the costs of this additional communication and about whether such efforts could be maintained at a time of financial constraint. They also thought that the patient view might have been somewhat lost in all the managerial change. The NISUs provided a more mixed message about the information they had been given. NISUs without a care coordinator appeared to fare worst. One had received no official communication about the changes and, as a result, became anxious:
Non-involved service user: The communications I received about services, I didn’t actually get anything. It was quite, it can provoke quite a bit of anxiety actually because it makes you think that you’ve dropped through the net and nobody will, you won’t have any help and support.

Others were told by their care coordinator, sometimes during their last meeting before a change was made. This seems to have worked better:

Non-involved service user: My CPN [community psychiatric nurse]......clearly told me, I don’t remember receiving a letter but he clearly told me that he was moving, changing me over to the mood anxiety and I was quite happy. So I was more than happy to be changed over and it was really done cleanly and he sat in and said his goodbyes to me.

Service user needs

There was general agreement among the service users that they needed more clarity about what services were available. This, they argued, was essential for patient confidence, and could encourage compliance and recovery, and limit stress in a crisis:

Service user: I want a pathway to access where I know where I can go and what will happen. Now, I don’t want to be floundering or when I’m in a state, I’m in no fit mind to go and seek any help anyway. Somebody else will have to do it so actually the carers should know where we should go.

There is some difficulty in interpreting what this informant meant by ‘a pathway to access’. Service users tended to use the terms ‘care pathway’ and ‘care plan’ interchangeable, and generally in the context of remarks about the services that were available to an individual patient. In this sense, there was (in 2012) no evidence of any familiarity with the high-level, functional care pathways that the SLaM CAGs had been encouraged to develop. But it was clear that the service users were familiar with, and concerned about, care plans. There was general agreement that care plans were important, that service users should be actively involved in developing their own care plans, and that this should be an ongoing exercise:

Service user: What people need is continuity of care if they are to stabilise. They need collaboration, negotiation and partnership, an opportunity to talk on an equal basis. It is detrimental to therapy to have things done to you. There needs to be an understanding of what the patient needs.

It was also evident that these ideals were not, at that stage, being met for all MAP CAG service users.
Developing user-led services

One constructive suggestion was that it might be possible to build capacity for treatment and support by capitalising on innovative self-help projects, such as the Service User Network in Croydon (SUN) and the Lambeth Living Well collaborative. Service users generally agreed that these initiatives offered much potential. Of SUN they said:

**Service user:** it breaks this cycle that systems actually perpetuate because you’ve got people coming to SUN who are coping in different ways but who are also extending that capacity of resource to others and that peer support, it’s not entirely service user led and all those old categories, this is actually something different that is an active partnership.

The key, service users suggested, was co-production:

**Service user:** SUN is about self-referral... they have quite a lot of input and active input, they call it coproduction... that is possibly where the capacity is because there isn’t any more new money… It’s in these grassroots projects that these things might come about.

Providing feedback

We also asked about the flow of information from service users. By definition, the ISUs had more opportunities to raise general issues of concern through formal mechanisms such as the Service User Advisory Groups, and both groups had the same access to interactive web sites and the same opportunities to respond to SLaM–wide patient surveys. But there was evidence that some of these formal mechanisms were not as widely used as they might have been:

**Involved service user:** Of course, then you get the patient survey every year... but then the numbers in the patient survey are terribly low.

Moreover, the NISUs identified other mechanisms that were, in principle, available to individual patients to provide feedback on their own experiences but which did not, in practice, work well. One specific problem was too much staff oversight. One NISU said:

**Non-involved service user:** (The hospitals have) got the machine where patients can give information back - and what transpired was they had no information whatsoever because they expected patients to give feedback on the staff and it was right in front of the staff(...) People are frightened to use them.

And, even when feedback was specifically sought, staff oversight could constrain what people felt able to say:

**Non-involved service user:** Sometimes they give you a feedback form to fill in, the person who has done the training...You’ve got to fill it in and give it back to the same
person. How can you say anything negative?... I usually tick the nice box because I might need them again.

In addition there was a perception that service user views were not valued:

**Service user:** Staff are asked to make sure they tick the box, care plans to reach a target. What it says about service users’ experiences doesn’t matter.

**Service users’ experience within the MAP CAG**

Confusion among service users about the re-organisation persisted as the MAP CAG was implemented. Some questioned why they were allocated to MAP CAG rather than another CAG. One NISU told us:

**Non-involved service user:** I didn’t understand it at all but I looked it up... I read that ‘M’ is for mood and ‘A’ is for anxiety and ‘P’ is for personality disorder then I thought, I haven’t got personality disorder, I don’t really want to go to that kind of thing, you know... it’s misunderstood.

Other NISUs provided evidence of confusion (among staff as well as service users) about how the new arrangements operated:

**Non-involved service user:** When you went through the switchboard at **** to speak to the secretary who dealt with your team, it took them about a month to six weeks to know which team to actually put you through to.

A specific concern raised by several NISUs was that the new discharge policies would mean that they would be ‘dropped’ by the system and would not be able to get back

**Non-involved service user:** **** discharged me back to my GP but about four or five months later I was getting ill again so they actually had to refer me back to the psychiatric system, it took nine months to even send a letter to me for an appointment.

More generally, it was apparent that many, if not all, of the service users who were interviewed continued to believe that the real driver behind the changes was the financial situation rather than the CAG programme. This belief shaped concerns about care in the longer term:

**Non-involved service user:** I think it’s going to get worse, you know because what’s going on now with all these cutbacks and things like that, benefits and things like that, it’s going to get harder.
In summary, many service users did not fully understand the rationale behind the changes, and had concerns about the cuts they were experiencing and the direction the services were taking. They were sceptical about what the CAG programme could achieve:

Non-involved service user: (CAGs) seem like a good idea. I don’t know how the actual strategy behind it all, you know, in the higher echelons of the sort of psychiatric departments of the NHS, I don’t know how it will all filter through to the patients.

On the other hand, it was clear that it would be possible to convey a persuasive narrative in support of CAGs. As one of our respondents put it, some way into a discussion of the MAP CAG:

Non-involved service user: Today is the first time I’ve ever heard about what the actual driving force of this MAP CAG reconfiguration is about and I’ve been involved with the Trust for four and a half years (...) basically what you’re trying to do is get effective management so you can monitor and manage what you do and have effective accountability, that’s what you actually do isn’t it? That would have been a much more positive narrative than some of the other narratives that are mentioned.
Section 6: The situation in 2014

The final round of interviews with senior MAP CAG staff in 2014 provided further evidence about the changes that had been made, and also about several unresolved and inter-related issues. These included the basis on which the MAP CAG had been defined, the overlaps between the SLaM CAGs, the interface between the MAP CAG and primary care, MAP CAG influences on commissioning and vice versa, and the impact of all these factors on patient care.

How CAGs were defined and operated alongside each other

The debate about how the MAP CAG was defined vis-à-vis the other CAGs continued throughout the period of our review. Informants noted that the CAGs for children and young people, and for dementia and older adults, had worked well. The behavioural and developmental CAG had also worked well. In all cases this was because these CAGs:

**R1:** make perfect sense and always did... that was always how life was configured.

It was a different story for the adult mental health CAGs that were carved out of the original borough-based services. Informants told us that borough-based differences persist within the CAGs, driven by the different requirements and investment levels of borough-based commissioners, and by the different traditions of service in each borough. Further complications arose because the nature of psychiatric illness, the lack of certainty in psychiatric diagnosis, and the number of service users with multiple problems led, inevitably, to numerous interfaces and overlaps between the SLaM CAGs. One respondent, who now favours the creation of a single adult mental health CAG, told us that he thought that the initial configuration of multiple adult mental health CAG had been too much influenced by the wish to preserve links to specific departments at the IoP. Overall, our respondents continued to question the CAG structures that had been created for adult mental health services. It also appeared that the CAGs had caused difficulties in relationships with commissioners and in ensuring that services in geographic localities were properly integrated, and that these difficulties were not unique to SLaM. One informant said:

**R1:** It is interesting looking across London as well because I’ve looked at the different service lines that have been developed and, quite different to the way we have done our CAGs in a way and a lot of other trusts are beginning to return to the borough question as well.

The CAG programme provided an opportunity to have a fresh start, look at whole systems, and make tough decisions about the viability of areas that had been “haemorrhaging money”.
As a result, we were told, the MAP CAG finances had become stable—a significant achievement given the central importance of finances in the reorganisation of the borough psychotherapy services and the ultimately unsuccessful attempt to restructure the Affective Disorders Unit and the Crisis Recovery Unit. But the pressure to find savings continued and, in order to explore further economies, in 2014-2015 the adult mental health CAGs developed an Adult Mental Health (AMH) plan, initially implemented in services in Lambeth and Lewisham. The changes suggested in the AMH plan were intended to make the service work better by, for example, having discharge coordinators with a specific role to negotiate the transition out of acute care, upgrading the importance of home treatment teams in an attempt to get fewer people admitted and to get them out of hospital quicker, and making changes to the support and recovery teams, such as reducing their caseload. The AMH plan is a mixture of activities that are intended to be directly cost saving and initiatives that are meant to save money because they are meant to make the service more effective but in a coordinated way. As the AMH plan was being developed a crisis occurred over in-patient admissions, and this became a particular focus of attention. Although the changes made as part of the AMH plan occurred after the end of our study period, and we cannot therefore comment on their effectiveness, we took the plan itself as evidence that within SLaM’s adult services there was a perception that the current CAGs were not able to effect the necessary changes by working as separate entities on their own.

In all, the issue of whether the adult mental health CAGs are in the right alignment is an active question within SLaM:

R1: So the discussion going on in the trust at the moment is how we get back into clearer borough relationships with the caveat of not allowing boroughs to go native. … the proposal is almost you have operational units but they are intersected by CAG standards, CAG strategy, the outcomes, evidence…. the kind of KHP priorities so one doesn’t invent a new service because that’s what you feel like doing.

Broadly, the AMH Plan perhaps indicated a tendency towards greater and greater centralisation of decision-making for adult mental health services existing alongside a persisting recognition that boroughs needed to be adequately recognised as a level at which some decisions would inevitably be made.

Overlaps between the CAGs

The development and implementation of care pathways clarified the extent to which there was overlap between the SLaM CAGs. They also, in principle, provided a framework within which service users could move between the CAGs as necessary. But, we were told, in
practice these overlaps are not always well handled. Service users can get stuck in one particular pathway:

**R1:** [In] personality disorder we think there’s more and more of an overlap with psychosis which is not being picked up and this is a real problem for CAGs because of silo-working. We’ve seen examples of people with schizophrenia being pushed up the pathway in terms of cost and complexity because they’ve got a personality issue within their psychosis rather than trying to find ways of managing across. There was concern about this tendency towards ‘silo-working’, not only because of its impact on patient care but also because of its impact on staff attitudes and behaviour. As the same respondent said:

**R1:** Broadly so everyone’s lost some general psychiatry principles whereby you apply a little bit of everything to this person in front of you who actually has quite a few strands to how they are presenting.

**Interface with primary care**

Prior to the CAG programme many service users were being maintained within the secondary services when they did not need to be, and had become accustomed to these arrangements. But the idea behind the changes was that service users would not necessarily be held all the time in the mental health services. Instead they would come in for an episode of treatment as they needed it and would then be discharged back to their GP with a clear care pathway so that if things started to go wrong again they could go back to their GP and be rapidly re-referred. This depended on the GPs having the competence and willingness to play their part. But this assumption was questioned by SLaM staff:

**R1:** We talk about discharging to primary care as if they are a group of people waiting to receive these referrals and—a. I don’t think they’ve got the capacity, b. I am not sure that the political will is there.

And the new arrangements worried service users who (as we saw above) saw people being discharged more rapidly and finding it harder to get referred back; they were concerned about being ‘dropped’ by the service.

Effective liaison with primary care is a particular problem for the MAP CAG because it includes the assessment and liaison teams and hence has a large interface with primary care. Staff told us that they have, over the years, considered the various models for working at the interface that are described in the literature 64. But the evidence base to support service development is still weak, and it is not yet clear how to build the necessary capacity within primary care:
R1: Over the years we have done different GP models; all of them have been about secondary clinicians going in and largely carrying on behaving as if they are secondary clinicians and they never build the capacity.

Approaches now being considered include SLaM employing GPs to work half time in a practice and half time in a SLaM assessment and liaison team, enabling them to develop confidence and special skills in mental health, and discharging people back into a network of services in the community rather than just to GPs.

In this context, we discovered that a small but significant change was underway in relation to the MAP Assessment teams that had previously been split off from the MAP Treatment teams. As noted on p. 49, the ‘MAP’ part of the name of these teams had caused confusion because the case mix actually encountered by any team responsible for accepting all referrals from primary care was much wider than just mood, anxiety and personality disorders. In recognition of this, and building on the Engagement, Assessment and Stabilisation pathway, whose main points of entry and exit are to and from primary care, these teams were in the process of being renamed Assessment and Liaison Teams.

Commissioning

As we found in the first round of interviews in 2012, relationships with commissioners continued to be complicated by the CAGs. While the stress on high-level care pathways meant that the MAP CAG was inevitably focused on a Trust-wide template for providing services, differing commissioning intentions and historic levels of investment led to a degree of tension. On occasion the MAP CAG had acted irrespective of commissioners’ views in order to provide services in the way that it thought best.

R1: In [named borough] .... the costs of Community Mental Health Teams have gone up because we deliberately put more money in there. We've subsidised because the quality was worrying.....[but] what’s inadvertently happened is we have bunged loads of extra money from both CAGs into [named borough] to try and sew up the gaps but of course it is not commissioned. So one technically is subsidising it from elsewhere. And then when you go to the commissioners and say “By the way, you owe us all this money”, that’s kind of, “well, it’s your choice to put it in there.

Some aspects of interactions with commissioners appeared to have been somewhat simplified with the appointment of a Chief Operations Officer, whose responsibilities include dialogue with commissioners, meaning that borough commissioners no longer have to interact directly with multiple CAGs. As with the AMH plan, this appeared to be an indication that some early problems with the CAG structure were being addressed through greater centralisation.
However, what we were told very clearly was that the commissioners, including GP commissioners, continue to dislike dealing with the CAGs rather than with the previous borough directorates.

**Using the care pathways in practice**

Informants told us that the detailed MAP CAG care pathways that were linked to NICE guidelines had not been re-visited. Instead the MAP CAG has developed, or is the process of developing, four pathway groupings for Engagement, Assessment and Stabilisation (which includes the interface with primary care), recurrent affective disorders, personality disorders, and anxiety disorders. In the case of personality disorders and recurrent affective disorders, new services had been established corresponding to these pathways, with the mood disorder pathway being associated with the appointment of a new chair in mood disorders. Clinical leads, academic leads and management leads have been appointed to take each pathway forward:

R7: *So that process (...) has morphed from this huge document that was disease-focused into four groupings now.*

This was associated with an important change of thinking in which this smaller number of new pathways—not just the Engagement Assessment and Stabilisation pathway—had become associated with defined clinical services. As one of our informants put it:

**R1:** *I mean, when the CAG started the care pathways were probably better described as clinical protocols; very, very detailed, very layered about what NICE said, what someone else said, and the process going through them was fairly tortuous because they were actually more around different professionals rivaling with each other as to what intervention to be included, so we kind of moved out of that and we have pragmatists leading it so for example the PD leader will say well yes, these are all relevant. But actually what is important for this pathway is how they are put together and how they are delivered so I think that there are certain points of tensions still but I think by aligning the clinical guidance with services we have more purchase and more happens. Otherwise it becomes a rather academic exercise.*

This pragmatic approach has also been demonstrated in the way that the high-level pathways, both on paper and also embodied in other ways (for example, in clinical dashboards), have continued to be used to support other components of the CAG programme. The possibility that they might support a clearer interface with primary care continued to be held out, despite the difficulties described above:

**R1:** *One of the things that pathways do is make it really clear why someone is in secondary care and if they are not receiving the interventions that they need then*
perhaps they should be in primary care. Community mental health teams have historically for years kept people in secondary services who might not need to be there (...) one of the things about the CAG and the pathways is about tightening up what actually are we providing. Are we doing it well? Are we doing it in the way that we’ve said we’ll do it? That then begins to start a different dialogue with primary care and with the commissioners.

Overall, the fact that care pathways continued to be a prominent part of the way that our respondents talked about so many aspects of the MAP CAG, five years after the transition to CAGs began, indicates that they had become institutionalised as part of the vocabulary through which senior MAP staff thought about and discussed the ‘business’ of the MAP CAG.
Summary
As part of its entry into KHP, SLaM reorganised its directorates to form a set of Clinical Academic Groups, which may be thought of as service lines modified to meet the needs of an AHSC. Among the changes associated with this, borough directorates were abolished and responsibility for adult mental health services was split between three CAGs, of which we studied one in depth: the MAP CAG. Our qualitative interviews indicated that the need for change in SLaM’s services was widely accepted among managers and senior clinicians and academics, even though their reasons may have differed from the KHP vision. Going into CAGs was seen as an opportunity to sort out long-standing difficulties with some parts of the Trust’s operations. It was also seen as an opportunity to embark on major change while the financial climate was comparatively benign and before such change was forced on the Trust by worse conditions. Furthermore, it was an opportunity for SLaM to implement a long-held ambition to start using care pathways.

We identified two elements within the CAG programme. The first was the CAG restructuring itself, which we judged had promoted change through increased oversight, by generating a need for services to be ‘CAG-compliant’ and by altering accounting arrangements in ways that promoted change. The second programme element was the use of care pathways. Over the five years of operation of the MAP CAG that we surveyed, significant developments were made in the use of care pathways. We view the use of care pathways in SLaM as a precept—that is, there was a general principle that care pathways should be used wherever possible to solve the problems faced by clinical and service managers as they attempted to maintain, improve and develop the services for which they were responsible. What the MAP CAG discovered was that its Maps of Medicine care protocols—which conformed more closely to the definitions of care pathways found in the literature—were of little practical use in the everyday work of managing the CAG. However, high-level pathways, which simply described in schematic flow the sequences of processes within a particular service, were helpful for performance measurement and management, and for discussions with commissioners and others, including discussions about transforming or redesigning services. Care pathways, in this very specific sense, had become part of the everyday vocabulary of clinical and service managers in SLaM. By 2014, when we performed our follow up interviews, the use of high-level pathways was being extended—new pathways were being developed for recurrent affective disorders, personality disorders and anxiety disorders, each of which was associated with ‘bricks and mortar’ services. In the case of the recurrent affective disorders pathway, the new service had entailed the appointment of new senior academic and clinical staff. Care pathways, from the outset, were seen in part as a way of defining the relationships between CAGs, but this was an area that seemed to have been
problematic. Interface issues between teams had continued to cause problems in patient care, and, at the organisational level, the AMH plan had now been developed between the CAGs as an attempt to jointly reorganise community and inpatient care to promote efficiency and effectiveness.

All this change occurred in a broader context outside the CAG programme, and in many cases that context overrode how the CAG programme would otherwise have progressed. During the early part of the MAP CAG’s life, financial considerations determined which parts of the service needed to be urgently reformed and, in the end, outranked any other consideration. Arguably the most important result of the whole CAG programme was that this process of ‘recovering the CAG position’ had been negotiated successfully: by 2014, when we performed further data collection, the MAP CAG’s finances were in order, with the main cost being the loss of two specialised, but non-viable inpatient services. We perceived that the managerial imperative to balance the books was a very important influence over action. Similarly important were the views of commissioners. Even after the introduction of the CAG, changes came about and other changes were delayed because of the views of commissioners: SLaM was not able to act autonomously. KHP also had some influences over the MAP CAG, although these seemed somewhat marginal to its main clinical activities.

An additional point that came out especially in the 2014 interviews was that SLaM had found some aspects of the loss of borough structures difficult to deal with. Our respondents told us that they had heard that similar difficulties had affected other mental health providers who had re-organised using service lines. However, there was a very clear preference for boroughs not to be allowed to ‘go native’ again and for the gains in consistency and the notion of a SLaM standard to be preserved.

Figure 6 and Figure 7 below show in graphical form the two programme elements that we identified, their mechanisms and the context in which those mechanisms operated, and, in summary form, the outcomes observed or expected. The external contextual factors that we identified are also shown. As we noted on p56, we did not ultimately find logic models to be a helpful tool, and therefore these diagrams attempt to depict context-mechanism-outcomes configurations as per the model provided by realistic evaluation²:
Figure 6 - Context-mechanism-outcome configurations for the CAG restructuring

To summarise Figure 6, we postulated three mechanisms by which the CAG restructuring itself had effects: changes to accounting (by which we mean the grouping of team-level finances at the level of CAGs rather than directorate), oversight (by which we mean the CAG having an overview of all teams doing ostensibly similar work), and the need for CAG-compliance (by which we mean the necessity for teams not ‘fitting’ the CAG template to be reformed). The respective contextual elements were the existence of significant cross-subsidies, the existence of incoherence in a group of similar services, and the existence of non-compliant team structures. Outside the CAG programme itself we postulated the mechanisms of needing to balance the books and accommodate commissioners. (We leave KHP influences out here as these did not affect clinical service management.)

In the case of the Psychological Therapies restructuring, which took a set of borough-facing psychotherapy services and turned them into Integrated Psychological Treatment Teams for
Lambeth, Lewisham and Southwark, the availability of the concept of a high-level care pathway helped with the redesign (see Figure 7) but the major influences are shown in Figure 6. The separation of the chronically loss-making psychotherapy services, which were placed in the MAP CAG, from the profitable services that had also been in the National and Specialist Directorate but which were now placed in other CAGs meant that a directorate which had, at aggregate level, broken even, gave way to several CAGs, one of which, the MAP CAG, had a recurring deficit. At the more abstract level of context-mechanism-outcome configurations, the CAG restructuring and resulting changes in accounting arrangements generated a context of undisguised financial difficulty that triggered the mechanism of cost-cutting aimed at balancing the books.

In the case of the Croydon reorganisation to create separate MAP Assessment and Treatment Teams, the high-level care pathways were a tool used in the setting up of the teams (see Figure 7), but did not themselves precipitate change. Financial considerations did not appear to have been important. Because the MAP CAG, and the other CAGs, were team-based structures, this meant that Croydon had to have teams that fitted into the new structure. Therefore, it was the CAG restructuring itself which was the main mechanism that led to the Croydon restructuring—the services had to become ‘CAG-compliant’. In addition to this, we were told that the division of Croydon’s generic CMHTs was a change that would have happened anyway, and possibly faster, without the CAG restructuring—therefore, the CAG restructuring should be regarded as a sufficient, but not a necessary, cause of the Croydon reorganisation.

In the case of the Affective Disorders Unit and Crisis Recovery Unit, no amount of restructuring, whether using care pathways or not, was able to overcome the financial problems that the unit was experiencing due to loss of cost per case income—a problem that was itself mainly due to the difficult environment in the rest of the NHS. Therefore it was the need to balance the books that was of decisive significance in the initial decision to restructure the units by merging them together, as well as the ultimate decision to close the services. The mechanisms of the CAG programme were not important.
Note. See Figure 6 for explanatory note. We did not postulate specific effects of context.

Figure 7 - Context-mechanism-outcome configurations for the use of high-level pathways

Figure 7 indicates how the precept to use care pathways first led to the development (on paper) of high-level pathways, and then to a fusion of these abstract pathways with the teams to which each pathway applied, such that any pathway could be seen as both referring to the pathway and the real work to which that pathway related. Subsequently, we postulated two mechanisms whereby the pathway might have effects—firstly by supporting service redesign (this was evident in the psychological therapies and Croydon restructurings, and also in the later redesign of personality disorder and recurrent affective disorder services) and secondly by supporting ongoing management of services (an effect that would potentially encompass effects on all of the CAGs services). In the case of these mechanisms, we did not identify particular contextual effects, other than the trivial sense—not depicted in the diagram—in which service redesign required the existence of a service needing to be redesigned.

The main lesson from our interviews with service users was that the CAG programme was poorly understood outside a relatively small circle of service users who were part of the Service User Advisory Group for the MAP CAG. For those who had been through the reorganisation process, it had not been clear what the rationale for the changes had been.
Indeed, in the absence of other information, service users had been inclined to see the CAG programme as a cost-cutting exercise. Despite this, it seemed to us, and our respondents, that it would have been possible to justify CAGs to service users by focusing both on how care pathways could lead to the creation of predictable ‘patient journeys’ and also on how CAGs would lead to managers having a better overview of services and making sure that these operated and inter-operated in rational and understandable ways.
Chapter 4 – Quantitative Results

In this chapter we investigate whether the changes described in Chapter 3 led to measurable change in the services and among the service users affected. We concentrate again on the MAP CAG, and specifically on patients treated in Community Mental Health Teams (including all forms of CMHT, before and after the CAG reorganisation) as well as the borough-based psychotherapy teams (the Integrated Psychological Treatment Teams and their predecessors). As noted in Chapter 3, the management of both these sets of teams came to be guided by a high-level care pathway in the period after the introduction of the CAG in October 2010.

As noted in Chapter 2, the selections of data used start in April 2009, 18 month prior to the ‘go-live’ date for the CAG on 1st October 2010. The end dates for each analysis vary slightly depending on the time needed for follow up, but we aimed to use data collected up to the end of March 2014.

Descriptive Analyses

Community Mental Health Teams

Demographic, clinical and service use characteristics of the sample are shown in Table 3. Data were entirely complete for service use and largely complete for demographic variables. A diagnosis was available in 90.1% of episodes. Completeness for the HoNOS was 61.9% at the start of the episode and 33.3% at the end of the episode. Overall, 30.6% of those episodes with a recorded diagnosis were associated with a psychotic or bipolar diagnosis; 61.9% of episodes were associated with a non-psychotic diagnosis (depression, anxiety disorders, stress-related and somatoform disorders and various other diagnoses including eating disorders, organic disorders, learning disability and developmental disorders).

Distributions of item scores on the admission HoNOS scale for community mental health team service users with diagnosis of a mood, anxiety or personality disorder are shown in Figure 8. In general, there was a preponderance of scores of zero (none) or one (mild); the only items for which a majority scored above this level were items seven and eight, representing depressed mood and other mental and behavioural symptoms respectively.
Table 3 - Clinical and demographic characteristics of individuals treated in CMHTs, April 2009 to March 2014

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<thead>
<tr>
<th>Variable</th>
<th>Complete (% / total)</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Mean (SD)</td>
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<td>Gender</td>
<td>Male</td>
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<td>Female</td>
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<td></td>
<td>Other</td>
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<td>Marital status</td>
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<td></td>
<td>Divorced / separated / widowed</td>
<td>3,369 (12.6%)</td>
</tr>
<tr>
<td></td>
<td>Married</td>
<td>4,706 (17.6%)</td>
</tr>
<tr>
<td>Diagnosis</td>
<td>Schizophrenia (F20)</td>
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<tr>
<td></td>
<td>Other psychotic (F21-F29)</td>
<td>2,566 (10.1%)</td>
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<td></td>
<td>Bipolar disorders (F30-F31)</td>
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<td>Depression (F32-F39)</td>
<td>7,732 (30.5%)</td>
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<td></td>
<td>Neurotic and anxiety (F40-49)</td>
<td>4,173 (16.5%)</td>
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<td></td>
<td>Personality and related (F60-69)</td>
<td>2,216 (8.7%)</td>
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<tr>
<td></td>
<td>Drug &amp; alcohol disorders (F1x)</td>
<td>1,898 (7.5%)</td>
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<td></td>
<td>Other disorders</td>
<td>1,548 (6.1%)</td>
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(Table 3 continued)

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<tr>
<th></th>
<th>None</th>
<th>N (%)</th>
<th>N (%)</th>
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<tr>
<td><strong>Total days in treatment</strong></td>
<td>28,062</td>
<td>13,819</td>
<td>9,295</td>
</tr>
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<td>with South London and</td>
<td>(100.0%)</td>
<td>(49.2%)</td>
<td>(33.1%)</td>
</tr>
<tr>
<td>Maudsley in the preceding</td>
<td></td>
<td></td>
<td>(11.1%)</td>
</tr>
<tr>
<td>year</td>
<td></td>
<td></td>
<td>(6.5%)</td>
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<tr>
<td>1-182 days</td>
<td>3,119</td>
<td>9,295</td>
<td>3,119</td>
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<td>183-364 days</td>
<td>1,829</td>
<td>3,119</td>
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<td>365 days</td>
<td></td>
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<td></td>
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</table>

| Number of admissions to      | None     | 28,062  | 23,445    |
| South London and Maudsley    |          | (100.0%)| (83.6%)   |
| wards in the preceding year  |          |         | (13.9%)   |
|                              | 1        | 3,894   | 3,894     |
|                              | 2        | 554     | 554       |
|                              | 3 or more| 169     | 169       |

| HoNOS at start of episode    | 17,374   | 10.8    |
|                              | (61.9%)  | (5.6)   |
| HoNOS at end of episode      | 7,694    | 8.0     |
|                              | (27.4%)  | (5.5)   |

*Note. Only individuals with at least one face-to-face contact recorded during the episode were included.*
Note. Sample covers the period 1st April 2009 to 31st March 2014. The content of each item is as follows: item 1 – overactive, aggressive, disruptive or agitated behaviour; item 2 – non-accidental self-injury; item 3 – problem drinking or drug-taking; item 4 – cognitive problems; item 5 – physical illness or disability problems; item 6 – problems associated with hallucinations and delusions; item 7 – problems with depressed mood; item 8 – other mental and behavioural problems; item 9 – problems with relationships; item 10 – problems with activities of daily living; item 11 – problems with living conditions; item 12 – problems with occupation and activities.

Figure 8 - Distribution of admission HoNOS item ratings for people with mood, anxiety and personality disorders treated by CMHTs
Outpatient Psychotherapy Teams

Demographic, clinical and service use characteristics of the sample are shown in Table 4. Data were entirely complete for service use and largely complete for demographic variables. A diagnosis was available in 88.8% of episodes. Completeness for the CORE-10 was 53.5% at the start of the episode and 15.4% at the end of the episode. Overall, 11.1% of those episodes with a recorded diagnosis were associated with a psychotic or bipolar diagnosis; 77.2% of episodes were associated with a non-psychotic diagnosis (depression, anxiety disorders, stress-related and somatoform disorders and various other diagnoses including organic, learning disability and developmental disorders).

Distributions of item scores on the admission CORE-10 scale for outpatient psychotherapy service users with diagnosis of a mood, anxiety or personality disorder are shown in Figure 9.
Table 4 - Clinical and demographic characteristics of individuals treated in outpatient psychotherapy teams, April 2009 to March 2014

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<td>Mean (SD) 40.3 (13.1)</td>
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<td><strong>Gender</strong></td>
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<td>Male</td>
<td>6,041 (100.0%)</td>
<td>N (%) 2,234 (37.0%)</td>
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<td>Female</td>
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<td><strong>Ethnicity</strong></td>
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<td>White British</td>
<td>5,796 (95.9%)</td>
<td>N (%) 3,896 (67.2%)</td>
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<tr>
<td>Black African or Caribbean</td>
<td>830 (14.3%)</td>
<td>830 (14.3%)</td>
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<tr>
<td>Other</td>
<td>1,070 (18.5%)</td>
<td>1,070 (18.5%)</td>
</tr>
<tr>
<td><strong>Marital status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>5,640 (93.4%)</td>
<td>N (%) 3,627 (64.3%)</td>
</tr>
<tr>
<td>Divorced / separated / widowed</td>
<td>793 (14.1%)</td>
<td>793 (14.1%)</td>
</tr>
<tr>
<td>Married</td>
<td>1,220 (21.6%)</td>
<td>1,220 (21.6%)</td>
</tr>
<tr>
<td><strong>Diagnosis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schizophrenia (F20)</td>
<td>5,380 (89.1%)</td>
<td>N (%) 166 (3.1%)</td>
</tr>
<tr>
<td>Other psychotic (F21-F29)</td>
<td></td>
<td>115 (2.1%)</td>
</tr>
<tr>
<td>Bipolar disorders (F30-F31)</td>
<td></td>
<td>315 (5.9%)</td>
</tr>
<tr>
<td>Depression (F32-F39)</td>
<td></td>
<td>1,794 (33.4%)</td>
</tr>
<tr>
<td>Neurotic and anxiety (F40-49)</td>
<td></td>
<td>1,570 (29.2%)</td>
</tr>
<tr>
<td>Personality and related (F60-69)</td>
<td></td>
<td>798 (14.8%)</td>
</tr>
<tr>
<td>Drug &amp; alcohol disorders (F1x)</td>
<td></td>
<td>140 (2.6%)</td>
</tr>
<tr>
<td>Other disorders</td>
<td></td>
<td>482 (9.0%)</td>
</tr>
</tbody>
</table>
Table 4 (continued)

<table>
<thead>
<tr>
<th></th>
<th>None</th>
<th>6,041 (100.0%)</th>
<th>N (%)</th>
<th>1,736 (28.7%)</th>
<th>2,177 (36.0%)</th>
<th>951 (15.7%)</th>
<th>1,177 (19.4%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total days in treatment with South London and Maudsley in the preceding year</td>
<td>None</td>
<td>6,041 (100.0%)</td>
<td>N (%)</td>
<td>1,736 (28.7%)</td>
<td>2,177 (36.0%)</td>
<td>951 (15.7%)</td>
<td>1,177 (19.4%)</td>
</tr>
<tr>
<td></td>
<td>1-82 days</td>
<td>1,736 (28.7%)</td>
<td>2,177 (36.0%)</td>
<td>951 (15.7%)</td>
<td>1,177 (19.4%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>183-364 days</td>
<td>2,177 (36.0%)</td>
<td>951 (15.7%)</td>
<td>1,177 (19.4%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>365 days</td>
<td>951 (15.7%)</td>
<td>1,177 (19.4%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more</td>
<td>1,177 (19.4%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of admissions to South London and Maudsley wards in the preceding year</td>
<td>None</td>
<td>6,041 (100.0%)</td>
<td>N (%)</td>
<td>5,502 (91.1%)</td>
<td>418 (6.9%)</td>
<td>84 (1.4%)</td>
<td>37 (0.6%)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>5,502 (91.1%)</td>
<td>418 (6.9%)</td>
<td>84 (1.4%)</td>
<td>37 (0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>418 (6.9%)</td>
<td>84 (1.4%)</td>
<td>37 (0.6%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more</td>
<td>84 (1.4%)</td>
<td>37 (0.6%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37 (0.6%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORE-10 at start of episode</td>
<td></td>
<td>3,245 (53.7%)</td>
<td>Mean (SD)</td>
<td>21.7 (6.4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>21.7 (6.4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORE-10 at end of episode</td>
<td></td>
<td>1,247 (20.6%)</td>
<td>Mean (SD)</td>
<td>18.1 (7.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18.1 (7.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Note. Sample covers the period 1st April 2009 to 31st March 2014. Item content is as follows: item 2 – tension, anxiety and nervousness; item 3 – having someone to turn to; item 7 – ability to cope when things go wrong; item 10 – talking to people felt too much; item 15 – panic and terror; item 16 – plans for suicide; item 18 – sleep difficulties; item 23 – hopelessness; item 27 – unhappiness; item 28 – unwanted images or memories.

Figure 9 - Distribution of item scores from CORE-10 administered at the episode start, psychotherapy episodes, April 2009 to March 2014
Activity and costs

The following section details analyses of activity and costs, first looking at CMHT episodes, and moving on to psychotherapy episodes.

CMHT caseload, episode counts and episode duration

The total number of individuals with a non-psychotic diagnosis under the care of each borough’s CMHTs was calculated for every day between April 2009 and March 2014—see Figure 10 for a graphical presentation.

Note. Non-psychotic diagnoses only, April 2009 to March 2014, at least one face to face contact. Smoothed daily figures are shown.

Figure 10 - Daily CMHT caseload

Visual inspection of the plots in Figure 10 indicated that a regression of the daily caseload figures against time, possibly allowing the slope of the fitted line to vary after CAG implementation, would provide a meaningful fit of the data. Each borough was analysed separately. Models in which caseload was regressed only against time ( \( y = b_{\text{time}}X_{\text{time}} + b_0 + \varepsilon \) ) were compared using LR testing with models in which caseload was regressed against time, a pre-/post- CAG indicator variable and an interaction term between the latter and time ( \( y = \)
\[ \beta_{\text{time}}X_{\text{time}} + \beta_{\text{CAG}}X_{\text{CAG}} + \beta_{\text{CAGtime}}X_{\text{CAGtime}} + b_0 + \varepsilon \]. Durbin’s alternative test indicated that serial autocorrelation was present (p<0.0001 in all boroughs). This was attributable to the fact that one day’s caseload can only differ from the next by the difference between the number of new patients and discharges that day. Therefore Newey-West standard errors were used for the final analyses.

In all four boroughs, rates of change differed before and after CAG implementation (p < 0.0001 in all cases). All CMHT caseloads reduced in the post-CAG period, and only in Lambeth did caseload reduce more slowly in the post-CAG period than in the pre-CAG period (see Table 5):

Table 5 – Rates of Change in Daily CMHT Caseload, by Borough, April 2009 to March 2014

<table>
<thead>
<tr>
<th>CMHTs</th>
<th>Rate of Change / day (95% CI; Wald test p value)</th>
<th>Pre-CAG</th>
<th>Post-CAG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Croydon</td>
<td>0.24 (0.23 to 0.25; p &lt; 0.001)</td>
<td>-0.26 (-0.27 to -0.25; p &lt; 0.001)</td>
<td></td>
</tr>
<tr>
<td>Lambeth</td>
<td>-0.08 (-0.10 to -0.06; p &lt; 0.001)</td>
<td>-0.02 (-0.03 to -0.02; p &lt; 0.001)</td>
<td></td>
</tr>
<tr>
<td>Lewisham</td>
<td>-0.20 (-0.23 to -0.17; p &lt; 0.001)</td>
<td>-0.28 (-0.29 to -0.27; p &lt; 0.001)</td>
<td></td>
</tr>
<tr>
<td>Southwark</td>
<td>-0.05 (-0.08 to -0.03; p &lt; 0.001)</td>
<td>-0.29 (-0.31 to -0.27; p &lt; 0.001)</td>
<td></td>
</tr>
</tbody>
</table>

Counts of episodes per month and median episode length are graphed in Figures 11 and 12. Considering borough CMHT caseloads together with counts of new episodes per month and episode length pre- and post-CAG implementation, it appeared that the reduction in caseload in Croydon was attributable to a reduction in episode length (median 266 days before versus 239 days after; \( \chi^2 \) p value = 0.052) rather than any difference in the number of new episodes starting per month (61 episodes per month pre-CAG versus 58 episodes post-CAG; t test p value = 0.38). In Lambeth the reduction post-CAG was probably attributable to reduced new episodes (67 episodes per month pre-CAG versus 61 episodes per month post-CAG; p=0.06) rather than episode length (median 160 days before versus 166 days post; \( \chi^2 \) p value = 0.31).

In Lewisham it was attributable to both effects (70 episodes per month pre-CAG versus 58 post-CAG; t test p = 0.0007; median 142 days pre-CAG versus 121 days post-CAG; \( \chi^2 \) p = 0.007), as was also the case in Southwark (85 episodes per month pre-CAG versus 75 post-CAG; t test p = 0.02; median 143 days pre-CAG versus 100 days post-CAG; \( \chi^2 \) p < 0.001).
Note. Non-psychotic diagnoses only, April 2009 to Mar 2014, at least one face-to-face contact and a non-psychotic diagnosis. The vertical line represents the point that the MAP CAG was established, in October 2010.

Figure 11 - Counts of New CMHT Treatment Episodes per Month, by Borough
Note. Length measured in days. Individuals with non-psychotic diagnoses. Episodes starting between April 2009 and September 2013 with at least one face to face contact. Data aggregated over six-month timebands, with each datapoint plotted at the start of its related timeband.

Figure 12 - 25th, 50th and 75th Centiles of CMHT Episode Duration

**Number of contacts within a year of the start of a CMHT episode**

Figure 13 demonstrates the 25th, 50th and 75th centile values of the number of contacts per episode in the year after the first contact, covering CMHT episodes starting in the period from 1st April 2009 to 31st March 2013, and therefore including activity up to 31st March 2014.
Note. 25th, 50th and 75th centile values are shown. Data from episodes starting between April 2009 and March 2013. Counts are aggregated over six month timebands as in previous graphs. Individuals with non-psychotic diagnoses only.

Figure 13 - Number of contacts over the first 365 days of a CMHT episode

Inspection of plots indicated, as with episode length, that the number of contacts did not alter in linear fashion with time across all four boroughs. Therefore, we used linear regression with a random effect at individual level to test whether the mean number of contacts in the first year of an episode was altered after CAG implementation. In Croydon, there was a borderline significant increase in the mean number of contacts after CAG implementation ($b = 1.03$; 95% CI -0.10 to 2.17; $p = 0.075$). In Lambeth, there was a non-significant decrease in mean number of contacts ($b = -0.95$; 95% CI -2.12 to 0.22; $p = 0.11$). In Lewisham, there was a significant increase in number of contacts ($b = 0.85$; 95% CI 0.03 to 1.67; $p = 0.042$). In Southwark, there was a larger decrease in the number of contacts ($b = -2.99$; 95% CI -4.2 to -1.8; $p < 0.001$).

Costs associated with CMHT episodes

Figure 14 demonstrates mean costs of CMHT care over the 365 days subsequent to the start of an episode of CMHT care.
Note. Individuals with non-psychotic diagnoses only, at least one face-to-face contact. Episodes starting between April 2009 and March 2013. Figures aggregated over six-month timebands.

Figure 14 - Unadjusted CMHT Costs for Episodes Starting Between April 2009 and March 2013

We performed raw and adjusted analyses of these costs and how they changed over time. In view of the appearance of the graphical plots of costs, we simply compared costs in the pre-intervention period with costs in the post-intervention period, performing unadjusted and adjusted CMHT costs.

Looking at unadjusted CMHT costs in Croydon, there was no evidence that these differed pre- and post-intervention (b = 16.9; 95% CI -114.1 to 147.9; p = 0.80). The same applied to adjusted CMHT costs (b = -3.2; 95% CI -134.2 to 127.8; p = 0.96). In Lambeth, unadjusted costs were similarly unchanged (b = -54.8; 95% -216.8 to 107.3; p = 0.51), as were adjusted costs (b = -55.3; 95% CI -230.2 to 119.6; p=0.54). In Lewisham, unadjusted costs increased after the introduction of the CAG (b = 135.6; 95% CI 66.6 to 204.7; p<0.001), as did adjusted costs (b = 114.6; 95% CI 43.5 to 185.8; p = 0.003). In Southwark, there was a borderline
significant reduction in unadjusted CMHT costs ($b = -113.5; 95\% \text{ CI} -233.8 \text{ to } 6.9; p = 0.065$), which was just significant when adjusted ($b =-121.7; 95\% \text{ CI} -242.2 \text{ to } -1.2; p = 0.048$).

In a second set of analyses we examined costs for core adult mental health services, defined as the sum of inpatient costs, home treatment costs and CMHT costs. Figure 15 depicts these costs, aggregated over six month timebands and graphed separately per borough.

Note. Individuals with non-psychotic diagnoses only, at least one face-to-face contact. Episodes starting between April 2009 and March 2013. Figures aggregated over six-month timebands.

Figure 15 - Unadjusted Costs of Core Adult Mental Health Services, CMHT Episodes, April 2009 to March 2013

Again, we compared costs before and after the introduction of the CAG. Analyses were unadjusted and adjusted as described above. In Croydon there was no difference in unadjusted costs ($b = 57.1; 95\% \text{ CI} -836.6 \text{ to } 950.8; p = 0.90$), nor was there any difference in adjusted costs ($b = -207.4; 95\% \text{ CI} -1029.3 \text{ to } 614.5; p = 0.62$). Likewise in Lambeth, there was no difference in unadjusted costs ($b = -659.2; 95\% \text{ CI} -1525.1 \text{ to } 206.7; p = 0.14$) and no
difference in adjusted costs ($b = -417.8; 95\% \text{ CI} -1269.9 \text{ to } 434.4; p = 0.34$). Again in

Lewisham there was no difference in unadjusted costs ($b = -119.3; 95\% \text{ CI} -623.9 \text{ to } 385.3; p = 0.60$) and no difference in adjusted costs ($b = -334.2; 95\% \text{ CI} -862.9 \text{ to } 193.7; p = 0.22$), and finally in Southwark there was again no difference in unadjusted costs ($b = 218.1; 95\% \text{ CI} -319.5 \text{ to } 755.7; p = 0.43$) and no difference in adjusted costs ($b = 202.7; 95\% \text{ CI} -341.5 \text{ to } 747.0; p = 0.47$).
Psychotherapy caseload, counts of new episodes and episode duration

Daily borough caseloads within psychotherapy teams for individuals with non-psychotic diagnoses are displayed in Figure 16.

![Figure 16 - Psychotherapy Teams Daily Caseload](image)

*Note.* Non-psychotic diagnoses only, April 2009 to March 2014. Smoothed daily figures are shown.

As with the CMHT data, visual inspection of the plots in Figure 16 indicated that a regression of the daily caseload figures against time, possibly allowing the slope of the fitted line to vary after CAG implementation, would provide a meaningful fit of the data. Each borough was analysed separately. Models in which caseload was regressed only against time \( (y = \beta_{\text{time}} \times \text{time} + \beta_0 + \epsilon) \) were compared using LR testing with models in which caseload was regressed against time, a pre-/post- CAG indicator variable and an interaction term between the latter and time \( (y = \beta_{\text{time}} \times \text{time} + \beta_{\text{CAG}} \times \text{CAG} + \beta_{\text{CAGxtime}} \times \text{CAGxtime} + \beta_0 + \epsilon) \). Durbin’s alternative test indicated that serial autocorrelation was present \((p<0.0001\) in all boroughs). As with the CMHT data, this was attributable to the fact that one day’s caseload can only
differ from the next by the difference between the number of new patients and discharges that day. Therefore Newey-West standard errors were used for the final analyses.

In all four boroughs, rates of change in the daily caseload altered in the post-CAG period (p<0.0001 in all cases), with an increasing caseload prior to CAG implementation being followed by a reducing, or less strongly increasing, caseload (see Table 6):

Table 6 - Rates of Change in Daily Caseload for Psychotherapy Teams, By Borough, April 2009 to March 2014

<table>
<thead>
<tr>
<th>Borough</th>
<th>Rate of Change / day (95% CI; Wald test p value)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-CAG</td>
</tr>
<tr>
<td>Croydon</td>
<td>0.04 (0.03 to 0.05; p &lt; 0.001)</td>
</tr>
<tr>
<td>Lambeth</td>
<td>0.19 (0.17 to 0.20; p &lt; 0.001)</td>
</tr>
<tr>
<td>Lewisham</td>
<td>0.08 (0.08 to 0.09; p &lt; 0.001)</td>
</tr>
<tr>
<td>Southwark</td>
<td>0.04 (0.03 to 0.05; p &lt; 0.001)</td>
</tr>
</tbody>
</table>

Counts of episodes per month and of 25th and 50th centiles of episode length are shown in Figures 17 and 18. Considering these alongside the caseload analyses it appeared that changes in caseload were generally driven by opposing effects of episode count and duration. In Croydon, the mean number of new episodes per month pre-CAG was 29; post-CAG it was 11 (t test p value < 0.0001). This outweighed the effect of episode length, the median increasing from 398 to 490 days ($\chi^2$ p value 0.015). In Lambeth there were 24 new episodes per month pre-CAG and 21 post-CAG (t test p = 0.28), with an increase in median episode length from 517 to 600 days ($\chi^2$ p = 0.039); in Lewisham there were 20 new episodes per month pre-CAG versus 21 post-CAG (p = 0.50) with a non-significant reduction in episode length (pre-CAG 354 days vs 316 days post-CAG; $\chi^2$ p = 0.09), and in Southwark there were 18 new episodes per month pre-CAG and 14 post-CAG (p = 0.02), with an increase in median episode length from 450 to 505 days ($\chi^2$ p = 0.025).
Note. Non-psychotic diagnoses only, April 2009 to March 2014. Non-psychotic diagnoses only and at least one face-to-face contact per episode.

Figure 17 - Psychotherapy teams, Counts of New Treatment Episodes
Note. Individuals with non-psychotic diagnoses. Episodes starting between April 2009 and Mar 2014. Data are aggregated over six month timebands, with each data point represents episodes starting in the six months after the point indicated on the x axis.

Figure 18 - 25th and 50th centiles of psychotherapy episode duration

Number of psychotherapy contacts and costs
Analysis of costs and events indicated that there was under-recording of activity within the psychotherapy teams, especially prior to the most recent period. Therefore we did not analyse either of these variables

Activity in borough Improving Access to Psychological Therapies teams
The number of new episodes of individual CBT (a treatment equivalent in intensity to that provided within the borough psychotherapy teams) are shown in Figure 19.

Figure 19 - Counts of New IAPT Individual CBT Treatment Episodes, April 2009 to March 2014

Regression analyses of monthly counts against time indicated that activity increased over time in all four boroughs. (There was significant autocorrelation in two boroughs according to
Durbin’s alternative test so Newey-West standard errors were calculated; the source of this autocorrelation was unclear, but may have been due to the use of explicit targets of new episodes per month in services that we just beginning to operate and were gradually increasing their capacity). In Croydon the increase per month was 0.92 (95% CI 0.71 to 1.13; p<0.001). In Lambeth, it was 0.75 (95% CI 0.21 to 1.29; p=0.007). In Lewisham, it was 3.17 (95% CI 2.63,3.71; p<0.001). Finally, in Southwark, it was 0.82 (95% CI 0.57 to 1.08; p<0.001). Because of collinearity between the pre-post CAG indicator and the time variable it was not possible to test whether this trend altered over time.
Effectiveness of processes in CMHT assessed using case notes

Table 5 shows the results of the analysis of treatment processes in the sample of MAP patients taken from before and after the implementation of the CAG, and whose free text notes were used to code various indicators of treatment. There was no evidence that treatment processes for depression have changed since the introduction of the CAG, at least as assessed by antidepressant use, the use of other medications, or referral for psychotherapy.

Table 7 - Treatment processes for depression, before and after CAG restructuring

<table>
<thead>
<tr>
<th>Treatment process</th>
<th>Before CAG implementation (N=77)</th>
<th>After CAG implementation (N=123)</th>
<th>Chi square p value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antidepressant use at first contact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antidepressant already prescribed at first contact</td>
<td>38/77 (49%)</td>
<td>76/123 (62%)</td>
<td>p = 0.22</td>
</tr>
<tr>
<td>Antidepressant prescribed at first contact</td>
<td>7/77 (9%)</td>
<td>9/123 (7%)</td>
<td></td>
</tr>
<tr>
<td>No antidepressant prescribed</td>
<td>32/77 (42%)</td>
<td>38/123 (31%)</td>
<td></td>
</tr>
<tr>
<td>Addition of other treatment at first contact among those already taking an antidepressant</td>
<td>8/38 (21%)</td>
<td>14/76 (18%)</td>
<td>p = 0.74</td>
</tr>
<tr>
<td>Dose increase at first contact among those already taking an antidepressant</td>
<td>16/38 (42%)</td>
<td>29/76 (38%)</td>
<td>p = 0.68</td>
</tr>
<tr>
<td>Dose decrease at first contact among those already taking an antidepressant</td>
<td>8/38 (21%)</td>
<td>10/76 (13%)</td>
<td>p = 0.28</td>
</tr>
<tr>
<td>Referral for psychotherapy at first appointment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Already referred/receiving psychotherapy</td>
<td>15/77 (19%)</td>
<td>16/123 (13%)</td>
<td>p = 0.40</td>
</tr>
<tr>
<td>Referred for psychotherapy</td>
<td>37/77 (48%)</td>
<td>59/123 (48%)</td>
<td></td>
</tr>
<tr>
<td>Not referred</td>
<td>25/77 (32%)</td>
<td>48/123 (38%)</td>
<td></td>
</tr>
</tbody>
</table>
Effectiveness of processes in CMHT using structured data on receipt of psychotherapy during CMHT treatment or within 3 months of its ending

Percentages of CMHT patients with a diagnosis of depression and who were treated by one of the borough based psychotherapy teams or who received individual CBT in the local IAPT service are shown in Figure 20, with data aggregated over six month time bands.

*Note*.

Episodes with at least one face to face contact, starting between April 2009 and March 2014. Diagnosis of depression (F32). Data are aggregated over six month time bands.

Figure 20 - Proportion of CMHT Episodes With Depression Receiving Psychological Treatment (in Secondary Care or IAPT Individual CBT), April 2009 to March 2014

The logistic regression model demonstrated that the odds ratio for receipt of psychological therapy per month was 0.96 in Croydon (95% CI 0.95 to 0.97; $p<0.001$). This implies that the odds of being treated were multiplied by 0.96 for each additional calendar month. A LR test comparing to a model also including a post-CAG indicator variable and an interaction between that indicator and time suggested that this trend did not alter after CAG implementation ($p = 0.56$). In Lambeth, there was no change in the odds of treatment over time (OR = 1.00; 95% CI 0.99 to 1.01; $p = 0.90$), and again there was no evidence of an altered trend with time ($p = 0.51$). Similarly, in Lewisham, there was no change in the odds of treatment over time (OR = 1.00; 95% CI 1.00 to 1.01; $p = 0.85$), and no evidence that this
changed post-CAG implementation (p = 0.36). Finally in Southwark, there was also no change in the odds of treatment receipt over time (OR = 1.00; 95% CI 0.99 to 1.01; p = 0.89) and no evidence that this trend altered after CAG implementation (p = 0.18).

Effectiveness of CMHTs judged by change in HoNOS total score between start and end of treatment

Figure 21 demonstrates mean total HoNOS score at the start and end of treatment, aggregated over six month timebands:

Note. Episodes from April 2009 to March 2014. At least one face-to-face contact. Non-psychotic diagnosis. Data aggregated over six month time bands.

Figure 21 - CMHT episodes: mean HoNOS total scores at start and end of treatment

Of the 28,009 CMHT episodes starting within the analysis period, 15,105 (54%) had a pre-treatment rating along with the covariates necessary for use in the mixed-effects analysis and 6761 (24%) had a similarly usable post-treatment rating, giving a sample size of 21,866. The initial mixed effects model (Model 1) unadjusted for any other variable gave an estimated value for the treatment effect of -2.9 (95% CI -3.0 to -2.9; p<0.001), indicating an average reduction in the total score of 2.9 points. This effect was not altered (b = -2.8) by the addition of diagnosis, age, sex, ethnicity, marital status, borough, time and a pre-/post-CAG indicator.
variable (Model 2). There were significant interactions between treatment effect and diagnosis \( (p < 0.0001) \), borough \( (p < 0.0001) \) and time \( (p < 0.0001) \) (Model 3a). Testing of three-way interactions between treatment effect, time and both borough and diagnosis (Model 4a) demonstrated that there was no difference in the diagnosis-specific treatment effect over time (Wald test \( p = 0.56 \)), whereas there was evidence of a difference in the borough-specific treatment effect over time (Wald test \( p < 0.0001 \)), so the interaction with diagnosis was omitted from Model 4b. Comparison of Model 4b with Model 5, which included an interaction between treatment effect and the pre-/post-CAG indicator variable and an interaction between treatment effect, calendar time and the pre-/post-CAG indicator, demonstrated only borderline evidence for altered trends in treatment effect in the post-CAG period (LR test \( p = 0.0630 \)). Therefore Model 4b was taken as the definitive model. Treatment effect by borough over time is graphed in Figure 22:

"Note. The slope in the treatment effect for Croydon pre month was -0.01 (95% CI -0.03 to -0.01; \( p = 0.33 \)); in Lambeth it was 0.00 (95% CI -0.01 to 0.02; \( p = 0.54 \)); in Lewisham it was 0.06 (95% CI 0.04 to 0.07; \( p < 0.001 \); and in Southwark it was 0.01 (95% CI 0.00 to 0.03; \( p = 0.049 \))."
Figure 22 - Predicted treatment effect, CMHT episodes starting from April 2009 to March 2014 with a diagnosis of mood, anxiety or personality disorder

**Effectiveness of psychotherapy teams judged by change in CORE-10 total score between start and end of treatment**

Figure 23 demonstrates mean total score on the CORE-10 at the start and end of treatment over time and per borough.

![Graphs showing CORE-10 total score changes over time and per borough](image)

Figure 23 - Mean CORE-10 Total Score Before and After Psychological Treatment, April 2009 to March 2014

*PT_CORE.dta = 19th May 2015*

Of the 5774 total observations, 2658 (46%) had a pre-treatment rating along with the necessary covariates and 1052 (18%) had a usable post-treatment rating, giving a sample size of 3710. A model unadjusted for any other variable gave an estimated value for the treatment effect of $b = -3.8$ (95% CI -4.2 to -3.4; $p < 0.0001$), indicating an average reduction in the total score of 3.8 points (Model 1). This effect was not altered ($b = -3.8$) by the addition of diagnosis, age, sex, ethnicity, marital status, borough and time as covariates (Model 2).

Fitting models with the same set of covariates, but including interactions with treatment effect (Model 3a), there was evidence that the treatment effect increased with time ($p = 0.0154$) and

[Comment [BS8]: Again, it is not clear where this figure came from – though the percentages tally this time.]
was affected by diagnosis (p = 0.0470), but not by borough (p = 0.19), so the latter was omitted from the resulting model (Model 3b). The three-way interaction between treatment effect, time and diagnosis included in Model 4a was not significant (p = 0.0934). The likelihood ratio test comparing Model 3b with the model containing interactions with the post-CAG indicator variable (Model 5) was also not significant (p = 0.74). In summary the effectiveness of psychotherapy appeared to increase over time, but this trend was not affected by CAG implementation.

The slope of the treatment effect over time per month was -0.025 (95% CI -0.048 to -0.003; p = 0.027)

Figure 24 - Predicted Effect of Psychotherapy Treatment on CORE-10 Total, CMHT Episodes Starting From April 2009 to March 2014 With a Diagnosis of Mood, Anxiety or Personality Disorder

Safety

Rate of A and E consultation for self-harm among current or recent CMHT patients

Figure 25 demonstrates the unadjusted rates of A & E consultations for self harm among current CMHT patients or those discharged from a CMHT no more than 3 months previously.
Rates are calculated separately for quarterly timebands, and graphed separately by borough. Only those individuals with non-psychotic diagnoses are included.

*Note.* CMHT episodes with at least one face to face contact and a non-psychotic diagnosis. Estimated rates per 3 month timeband. Whiskers indicate 95% confidence intervals for each estimate.

Figure 25 – Unadjusted rates of A & E consultation for self-harm, CMHT episodes from April 2009 to November 2011

In Croydon, there was an upward trend in the adjusted rate of self-harm throughout the study period—hazard ratio (HR) per quarter 1.07 (95% CI 1.04 to 1.10; p<0.0001)—however there was no evidence that this trend was different before and after CAG implementation (likelihood ratio test p = 0.47). Findings were similar in Lewisham, where there was overall an increasing trend (HR per quarter 1.08; 95% CI 1.05 to 1.11; p < 0.0001) and the likelihood ratio (LR) test comparing the varying trend model with the constant trend model was non-significant (p = 0.94), and also in Southwark, where the HR per quarter was 1.08 (95% CI 1.05 to 1.11; p<0.0001), and the likelihood ratio p value comparing the varying trend model and the constant trend model was 0.35. In Lambeth, the trends in the rate of self-harm were better modelled by an altered trend before and after CAG implementation (LR p = 0.0076). However, neither the trend before CAG implementation nor the trend after implementation was significant: the HR per quarter before CAG implementation was 0.97 (95% CI 0.89 to
1.06; \( p = 0.48 \)), while the HR per quarter after CAG implementation was 0.91 (95% CI 0.82 to 1.01; \( p = 0.09 \)).

**Rate of acute hospital admission for self-harm among current or recent CMHT patients**

Figure 26 shows the equivalent graph, but showing rates of admission to acute hospitals with an ICD-10 code indicating a primary diagnosis of self-harm. This data series extends to March 2013.

In Croydon, there was no trend in the adjusted rate of self-harm over time—HR per quarter 1.01 (95% CI 0.99 to 1.03; \( p = 0.53 \)), and no evidence that there were different trends before and after CAG implementation (likelihood ratio test \( p = 0.59 \)). Findings were similar in Lewisham, where there was no trend (HR per quarter 1.01; 95% CI 0.98 to 1.05; \( p < 0.0001 \)) and the likelihood ratio test comparing the varying trend model with the constant trend model was non-significant (\( p = 0.54 \)), and also in Southwark, where the HR per quarter was 1.03.
(95% CI 0.99 to 1.11; p = 0.17), and the likelihood ratio p value comparing the varying trend model and the constant trend model was 0.17. In Lambeth, there was an upward trend in the rate of self-harm (HR per quarter 1.05; 95% CI 1.01 to 1.09; p = 0.0186), and no evidence that this trend altered before and after CAG implementation (LR p = 0.0076).

In view of the apparently non-linear shape of the curve for Croydon, we also compared the overall rate after CAG implementation with the overall rate before CAG implementation. The relative rate of admission was 1.03 in Croydon (95% CI 0.84 to 1.26; p = 0.77), 1.56 in Lambeth (95% CI 1.05 to 2.31; p = 0.03), 1.18 in Lewisham (95% CI 0.88 to 1.58; p = 0.27) and 1.22 in Southwark (95% CI 0.83 to 1.81; p = 0.31).

In summary, there was evidence of increasing self-harm presentations in Croydon, Lewisham and Southwark and of increasing self-harm admissions in Lambeth. There was no evidence that any positive or negative trend had altered after CAG implementation.
Patient-centredness

Current waiting time for CMHTs

In Croydon, mean current waiting time was reduced by 14.0 days after CAG implementation (95% CI -15.7 to -12.2; p < 0.001). In Lewisham, it was reduced by 10.5 days (95% CI -12.5 to -8.6; p < 0.001). However, in Lambeth it was increased by 10.8 days (95% CI 8.3 to 13.2; p < 0.001), and in Southwark it was increased by 10.3 days (95% CI 6.5 to 14.2; p < 0.001). The variation in current waiting time is shown in Figure 2 below:

Figure 27 - Current waiting time for CMHTs, April 2009 to March 2013, 25th, 50th and 75th centile values
Current waiting time in psychotherapy teams

In Croydon, mean current waiting time increased by 45.0 days post CAG implementation (95% CI 37.5 to 52.5; p < 0.001). In Lambeth, it reduced by 33.2 days (95% CI -36.3 to -30.1; p<0.001); in Lewisham it reduced by 55.3 days (95% CI -63.6 to -47.1; p < 0.001); and in Southwark it reduced by 67.7 days (95% CI -75.1 to -60.2; p < 0.001). Variation over time is shown in Figure 28 below:

![Graph showing current waiting time in psychotherapy teams](image)

Figure 28 – Daily current waiting time in psychological treatment teams, April 2009 to March 2013: 25th, 50th and 75th centile values

Summary of quantitative findings

Quantitative findings are summarised in Table 8 below:
<table>
<thead>
<tr>
<th>Analyses</th>
<th>Croydon</th>
<th>Lambeth</th>
<th>Lewisham</th>
<th>Southwark</th>
</tr>
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<tbody>
<tr>
<td>Costs and activity</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMHTs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Caseload</strong></td>
<td>increasing pre-CAG; decreasing post-CAG</td>
<td>decreasing pre-CAG; decreasing more slowly post-CAG</td>
<td>decreasing pre-CAG; decreasing more rapidly post-CAG</td>
<td>decreasing pre-CAG; decreasing more rapidly post-CAG</td>
</tr>
<tr>
<td><strong>Number of new episodes starting per month</strong></td>
<td>no change post-CAG</td>
<td>borderline significant reduction post-CAG</td>
<td>reduced post-CAG</td>
<td>reduced post-CAG</td>
</tr>
<tr>
<td><strong>Length of new episodes</strong></td>
<td>borderline significant reduction in median post-CAG</td>
<td>no change in median post-CAG</td>
<td>reduction in median post-CAG</td>
<td>reduction in median post-CAG</td>
</tr>
<tr>
<td><strong>Number of contacts per episode</strong></td>
<td>borderline significant increase post-CAG</td>
<td>no change post-CAG</td>
<td>increased post-CAG</td>
<td>reduced post-CAG</td>
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<tr>
<td><strong>CMHT costs per episode</strong></td>
<td>no change post-CAG</td>
<td>no change post-CAG</td>
<td>increased post-CAG</td>
<td>reduced post-CAG</td>
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<tr>
<td><strong>CMHT, inpatient and home treatment costs per CMHT episode</strong></td>
<td>no change post-CAG</td>
<td>no change post-CAG</td>
<td>no change post-CAG</td>
<td>no change post-CAG</td>
</tr>
<tr>
<td><strong>Psychotherapy teams</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Caseload</strong></td>
<td>increasing pre-CAG; reducing post-CAG</td>
<td>increasing pre-CAG; reducing post-CAG</td>
<td>increasing pre-CAG; increasing less strongly post-CAG</td>
<td>increasing pre-CAG; reducing post-CAG</td>
</tr>
<tr>
<td><strong>Number of new episodes starting per month</strong></td>
<td>reduced post-CAG</td>
<td>no change post-CAG</td>
<td>no change post-CAG</td>
<td>reduced post-CAG</td>
</tr>
<tr>
<td><strong>Length of new episodes</strong></td>
<td>increased median length post-CAG</td>
<td>increased median length post-CAG</td>
<td>no change in median post-CAG</td>
<td>increased median length post-CAG</td>
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<td><strong>IAPT teams</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of new episodes starting per month</strong></td>
<td>increasing over time</td>
<td>increasing over time</td>
<td>increasing over time</td>
<td>increasing over time</td>
</tr>
</tbody>
</table>

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132
<table>
<thead>
<tr>
<th>Effectiveness</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Patterns of treatment for depression</td>
<td>no evidence of change post-CAG</td>
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<tr>
<td>Psychotherapy use by CMHT patients with depression</td>
<td>reducing use over time</td>
<td>no change over time</td>
<td>no change over time</td>
<td>no change over time</td>
</tr>
<tr>
<td>Reduction in HoNOS Score (CMHT patients)</td>
<td>no change over time</td>
<td>no change over time</td>
<td>reduction in effect over time, trend not altered by CAG implementation</td>
<td>reduction in effect over time, trend not altered by CAG implementation</td>
</tr>
<tr>
<td>Reduction in CORE score (Psychotherapy patients)</td>
<td>greater reduction over time; no effect of CAG implementation</td>
<td>greater reduction over time; no effect of CAG implementation</td>
<td>greater reduction over time; no effect of CAG implementation</td>
<td>greater reduction over time; no effect of CAG implementation</td>
</tr>
<tr>
<td>Safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A &amp; E deliberate self-harm presentations (CMHT patients)</td>
<td>upward trend, unaltered post-CAG</td>
<td>non-significant trends pre-and post-CAG</td>
<td>upward trend, unaltered post-CAG</td>
<td>upward trend, unaltered post-CAG</td>
</tr>
<tr>
<td>DSH admissions (CMHT patients)</td>
<td>no trend</td>
<td>upward trend, unaltered post-CAG</td>
<td>no trend</td>
<td>no trend</td>
</tr>
<tr>
<td>Patient-centredness</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current waiting time (CMHTs)</td>
<td>reduced post-CAG</td>
<td>increased post-CAG</td>
<td>reduced post-CAG</td>
<td>increased post-CAG</td>
</tr>
<tr>
<td>Current waiting time (psychotherapy teams)</td>
<td>increased post-CAG</td>
<td>reduced post-CAG</td>
<td>reduced post-CAG</td>
<td>reduced post-CAG</td>
</tr>
</tbody>
</table>

Table 8 - Summary of Quantitative Findings
This summary table may be further summarised as follows. In all but one borough, there was evidence of a more rapid reduction in CMHT caseload after CAG implementation. Episode costs altered only in Lewisham (where they increased in association with an increased number of events per episode) and Southwark (where costs decreased in association with a reduced number of events per episode), but when home treatment and inpatient costs were included, there was no difference.

Changes in psychotherapy activity were more variable. Croydon, Lambeth, and Southwark changed from increasing caseload pre-CAG implementation to reducing caseload post-CAG implementation. There was evidence in all boroughs of increased numbers of IAPT episodes throughout the study period. We were unable to look at costs in the psychotherapy services—our presumption, given the much better financial health of these services by 2014, was that these had reduced.

We found no evidence that treatment effectiveness had increased, although generally it was unaltered. In Croydon, there seemed to have been a reduction in the proportion of people with depression receiving psychotherapy. In Lewisham and Southwark—the two boroughs in which there had been the clearest reduction in the length of episodes, effectiveness as measured by HoNOS appeared to have slightly reduced, but this trend appeared not to have altered at the point of CAG implementation.

Safety appeared not to have been altered pre- and post-CAG. There were trends in some boroughs, but these trends had not altered pre and post CAG.

Waiting time in CMHT had either increased or reduced (there was no consistent pattern) but the three new Integrated Psychological Treatment teams all seemed to have reduced waiting time compared to the pre-CAG service for the same borough.
Chapter 5: Discussion

Introduction and overview

In the preceding chapters, we have analysed SLaM’s re-organisation of its adult mental health services from a structure based on borough directorates to a structure based on CAGs, which, broadly, we have characterised as a service-line structure modified to account for the important local contextual factor of the formation of the local academic health sciences centre, KHP. Based on our interviews in the MAP CAG, the most significant mechanisms through which change occurred were (a) the restructuring itself, which placed similar and related teams together under unified management, sometimes disclosing problems that were not so obvious under the previous arrangement, and (b) the precept to use care pathways as the means of managing and transforming services, which, over time, developed into a precept to use what came to be called high-level pathways. The extent of change that has happened since October 2010 (a full-scale reorganisation in Croydon, the complete redevelopment of all borough-facing psychotherapy services, an attempted restructuring of two specialist inpatient services followed by their closure, the development of new personality disorder and recurrent affective disorder pathways, etc.) indicates that the MAP CAG had engendered very significant and far-reaching change. It was clear also that the use of high-level pathways, in particular, represented an important shift in the culture of management within SLaM.

However, our attempt to survey activity, costs, effectiveness, safety and patient-centredness in the MAP CAG showed a pattern of mixed results. Overall, there was most evidence of altered patterns of activity, although the details of changes differed between boroughs and services. In very broad outline, there was less activity both in the CMHTs and psychotherapy services. There was little evidence of altered treatment effectiveness, and no evidence that the introduction of CAGs had altered any trends in treatment effectiveness. There was no evidence of altered safety. There was some evidence of increased patient-centredness in the reformed psychotherapy services in the form of reduced waiting times, but some other services had increased waiting times. Costs in some of the CMHTs had altered, but not consistently, and there were no effects on care costs when other aspects of adult mental health services such as home treatment team use and inpatient bed use were included.

Overall, therefore, the quantitative results could be taken as showing welcome stability in the face of significant change. Alternatively, and less optimistically, they could be taken as showing two broad sets of changes. First, the restructuring and its sequelae and the development of high-level pathways together had no clear effects on care quality. Second,
there was some evidence that less care is being provided, a phenomenon which, falling outside our understanding of the context-mechanism-outcomes of the CAG programme, is presumably related to a tendency to increased demand management and cost control in a constrained financial environment.

However one looks at this issue, it is certainly worth asking the following question: can the CAG programme as we have conceptualised it deliver better quality care in future? Because of what we shall describe as the non-recurring nature of the effects of the CAG restructuring itself, we suggest that the answer to this question may depend on SLaM’s future approach to the use of care pathways. We might therefore also ask: can the precept to use care pathways—considered in their full sense—deliver on its promise to deliver better quality care more reliably and efficiently?

Before moving on to our discussion of these questions, we consider the strengths and limitations of the research that we carried out.

**Strengths and limitations**

Our research used data taken from a five-year window covering the period before and after SLaM’s CAG restructuring. In some form, we were able to use all the data from SLaM’s CMHTs and psychotherapy teams that had been collected during routine service provision in that period. These data included routine outcome measures and many other measures. By taking advantage of a separate study of self-harm presentations and data collected in acute hospitals we were also able to look at rates of self-harm among CMHT patients. It would therefore have been difficult to improve on the comprehensiveness and size of the datasets that we were able to work with. Moreover, we did not just perform a quantitative study. Had we not collected interview data with multiple respondents and had access to relevant documentary sources, it would have been very difficult for us to make sense of our quantitative findings, which, at first sight, showed a complex picture, in which many areas showed no straightforward change. Having two waves of qualitative data collection helped us to make firmer conclusions than had we relied on a single wave—in particular, it was our second wave that showed us how thoroughly embedded the concept of a high-level pathway had become in the management of the MAP CAG.

Our limitations mainly stem from our data collection. In the qualitative work we undertook we were not able to perform any participant observation and we also left the MAP CAG unobserved for around 2 years between waves of data collection. We also did not begin to
collect data until 18 months after the ‘go-live’ date for the CAG—this meant that we only able to learn about the formative processes of the CAG programme in retrospect. Because we aimed to interview people who could provide insight into the CAG programme’s mechanisms we opted only to interview people who worked in the MAP CAG or who used its services: this meant that we did not interview GPs or commissioners, meaning that we were reliant on second-hand accounts of their views. Overall, we had to make the best of a modest quantity of qualitative interview data, although this was supplemented by documents. Including service users was made much more complicated by the processes that we were studying: once we began to collect data it became clear that the idea that we would learn about the mechanisms of the CAG programme from service users was not realistic. We had not realised how limited their knowledge of the programme would be, and we over-estimated the extent to which the CAG programme would involve changes in service delivery that would be perceptible at the level of individual relationships with clinicians. We probably also over-estimated the extent to which, even in the upper managerial, clinical and academic levels, there was a pre-existing, fully articulated theory of what the CAG programme was and how it would work. Arguably, we should have directed more resource at the managerial respondents and less at other groups, but we could not have known this in advance.

In the quantitative work, we were limited mostly by data availability. We would have particularly liked to be able to study patient satisfaction, but the data collected for this purpose were so incomplete that it lacked credibility in a research context. In our examination of treatment processes, we were unable to assess whether treatment for depression had followed NICE guidelines because data on prescribing and psychotherapy receipt were so partial. In our analyses of treatment effect, the conclusions to be drawn must be tempered by the knowledge that our mixed effects analyses included post treatment ratings for no more than 27% of episodes, meaning that the probability of an unbiased estimate effect depends very heavily on the extent to which we were able to include as covariates those other variables which were associated with missingness and which were also associated with the value of the pre and post treatment rating. A conservative view would be that the completeness was so low as to render the analysis unusable, but there was no realistic alternative available to us.

A more general issue, which it is important to acknowledge, is that all of our analyses attempted to estimate causal effects based on observational data—an inherently difficult task yielding results that should be viewed cautiously. One way of assessing the credibility of these analyses is to apply standardised risk of bias criteria, such as those developed by the Cochrane Effective Practice and Organization of Care group (EPOC)⁶⁵. The analyses of
caseload were interrupted time series analyses—our assessment is that these had a low risk of bias according to the EPOC criteria. Other analyses were based on simpler techniques, for example using t tests to compare monthly counts of episodes pre- and post-CAG. The EPOC group suggest that this is a weaker design and it is suggested that such studies such not be included in reviews unless the design is fully justified or the data can be re-analysed. In our case we stand by our choice to use these methods as examination of visual plots indicated that fitting straight lines to the data would be misleading—see for example Figures 11, 17, 27 and 28. Some other designs that we used are less easy to characterise in standard epidemiological or econometric terms—for example, our analyses of rates of self-harm among current or recent CMHT patients pre- and post-CAG and our mixed effects analyses of treatment effectiveness. However, we believe that the quality of these analyses is generally good—the main threat to validity is the omission of covariates associated both with the treatment effect and the exposure of interest (the pre- post-CAG indicator), and it is difficult to see how any such association could have arisen.

Our most major limitation is the fact that we were only able to study a single organisation, and only studied one CAG within that organisation. Although adding further organisations and/or CAGs as study sites would have undoubtedly created a more complex pattern of findings needing interpretation, the combination of different contexts and differences in the programme structure might have made it easier to isolate the key context-mechanism-outcome configurations by comparing contexts and programme elements which did and did not produce a particular outcome. Instead, we were dependent on our and our respondents’ reasoning about the causal linkages between programme elements and outcomes such as the Croydon reorganisation and the psychotherapy reorganisation. Because we know little about contextual elements in the other SLaM CAGs or about contextual elements and programme design in other organisations it is difficult to determine to what extent our findings would be predictive of the outcome of the CAG programme in other CAGs or in other organisations. Certainly, we would hope that the closer any other site conforms to the site that we studied, the closer would be the correspondence in results.

The future of the CAG programme

Over the period covered by our investigation (2009 to 2014) it was possible to define two phases of SLaM’s CAG programme. The early phase was the initial management restructuring itself. First, a new set of operational divisions (CAGs) was created based on a preliminary view of the high-level pathways that each would manage; then, over several years in the case of the MAP CAG, each CAG defined iteratively the high-level pathways and
corresponding services with which it would proceed. This entailed some major reorganisation and restructuring of services, some of which (the psychological therapies restructuring) was viewed as dealing with an ‘elephant in the room’ that had been allowed to persist too long under the previous structures. The later phase, discernible at our second wave of data collection in 2014, was a period of relatively stable operation, in which the definition of a novel high-level pathway became the form in which service development was expressed, and attention was turned more to how CAGs should work together and with primary care while also accommodating the persisting importance of the borough as the level at which commissioning decisions were made and at which most CAG to CAG and CAG to primary care interfacing was done.

As we have noted previously, we identified two main programme elements—firstly the CAG restructuring and secondly the precept to use care pathways, which developed over time into the consistent use of high-level pathways. These programme elements did not operate equally over both of the phases above. Rather, while care pathways, or what they developed into, were a consistent feature, the effects of the CAG restructuring itself—mediated by the mechanisms of oversight, changes to accounting practices and need for ‘CAG-compliance’—were evident only in the early phase.

In an important sense, therefore, the changes that resulted from the CAG restructuring itself were non-recurring: once Croydon’s teams had been reorganized, once the Integrated Psychological Treatment Teams had been established and once the specialised inpatient services were restructured and finally closed, there were no further novel problems revealed by the MAP CAG’s oversight, no further revealed financial problems and no further non-compliant teams needing to be reorganised. We note at this point also that our study of the MAP CAG suggested that the constitution of SLaM’s CAGs—that is, the teams and wards that went into each and the areas of clinical activity each encompassed—did not seem to us to have contributed directly to the outcomes of the CAG programme that we observed in the MAP CAG. We did not, in other words, think that the MAP CAG achieved anything specifically because of the way that it had been demarcated relative to the other adult mental CAGs (Psychosis and Psychological Medicine). Indeed, we noted that our respondents, in both phases of the study, harboured some scepticism about the adult mental health CAG structure that had been settled on, and identified various problems that had resulted from it. Overall, this has the important consequence that the future of the CAG programme, in our estimation, rests largely on care pathways and how the MAP CAG, and, by extension, the other CAGs continue to develop their use of them.
Given its centrality to our argument, the idea of care pathways being used as a resource for service management requires detailed examination. As noted in Chapter 3, a number of ambiguities attend the formal definition of care pathways. Such ambiguities reflect a great deal of diversity in what purports to be a care pathway. As we have seen, SLaM developed local definitions of care pathways during the involvement of SLaM and IoP personnel in the preparation of the London Darzi report in 2008 and 2009, and then subsequently during the early stage of the transformation to CAGs, when they began to articulate a distinction between ‘high-level’ and ‘implementation’ care pathways. This period of thinking and writing about care pathways was then followed by the practical process of implementing them—and in explicating what was meant by the use of care pathways as a management resource for SLaM we relied mainly on what the MAP CAG did. As we set out below, using care pathways as a resource for service management meant the exclusion of one common interpretation of what a care pathway is, and the adoption of a contrasting usage.

Consequences of using care pathways as a resource for service management

The precept that care pathways should be used as a resource for service management meant that, quite early on in the CAG’s development, a care pathway ceased to be seen as a protocol, guideline or decision tree, or, more generally, as a document which a clinical staff member might use as a resource for decision-making or guidance during the performance of clinical work. This was amply demonstrated by the fate of the majority of care protocols that were developed during immediately after the MAP CAG was first set up in 2010. All but one of these protocols did not relate in any specific way to any of the CAG’s services but were instead based on the Maps of Medicine protocols and set out how particular mood, anxiety and personality disorders should be treated. Despite the substantial time and effort involved, the Maps of Medicine pathways were never implemented, and the contested process through which they were created came to be seen as part of the founding process of the CAG. In relation to the key issue of whether it is possible for the CAG to contribute productively to the clinical management of particular disorders and problems, the main lesson drawn by leaders of the MAP CAG appears to have been that only a combination of direct managerial and clinical (including clinical academic) influence over a discrete service provides sufficient ‘grip’ to motivate change—a conclusion that essentially shaped the new personality disorder and recurrent affective disorder services that were developed in the second phase of the CAG’s operations.

In place of what might be seen as the typical understanding of care pathways (as a form of evidence-based clinical protocol—see Table 2, p62), what developed in SLaM, quite early
after the introduction of the CAG programme, and certainly by the time of our initial data collection in May 2012, was a situation, still ongoing, in which the term ‘care pathway’, has become, both for service and clinical managers, a durable shorthand or ‘gloss’ both for the work of a group of teams operated by the CAG and for the representation of that work in schematic form. This was what was called a ‘high-level care pathway’, in order to distinguish it from the implementation pathways that were supposed to follow. In this form, the term ‘care pathway’ has become pervasive and ubiquitous within the management layers of the MAP CAG, and it is as a grouping of such high-level pathways that each adult mental health CAG represents itself vis-à-vis the others and to outside agencies such as commissioners. The extent to which these high-level pathways are now essential to the work of the MAP CAG and have proved serviceable is demonstrated amply by their having been the cornerstone of the early and pressing task of reorganising SLaM’s psychotherapy services into integrated psychological treatment teams as well as the recent (post-2012) work of creating new pathways for personality disorder and resistant depressive illness. Furthermore, the Engagement, Assessment and Stabilisation pathway—the only pathway that was developed during the early CAG development work that was not based on the Maps of Medicine work, and which initially was developed ostensibly in order to be able to describe the work of the MAP CAG’s Assessment and Treatment teams—has continued to serve the purpose of describing that work and has guided service redesigns in both Croydon and, to a lesser extent, some of the other boroughs.

There are numerous practical consequences of this understanding of a high-level pathway, with its dual meaning of work and the representation of work. All the high-level pathways that are currently in use—whether originating in the early or later phase of the development of the MAP CAG—are coterminous with bricks and mortar services and are complemented by lines of reporting and accountability to the CAG executive and the CAG directors. Moreover, only to the extent that any of its services deal with patients with a restricted number of clinical problems do the MAP CAG’s care pathways describe the treatment of specific clinical problems, disorders or diagnoses. Crucially, the ambition that the work of defining high-level pathways would lead into a process of defining the low-level ‘content’ of this pathway has not been fulfilled. One suggestion from our respondents was that the lack of attention to the implementation of evidence-based practices since CAG formation has been largely due to the ongoing severe financial pressures that the CAG has faced. While this may have been one factor, we suggest that our respondents also raised a more fundamental problem, that is, a lack of fit between pathways based on broadly-defined care needs and team functions (what service managers meant when discussing pathways) and pathways based on diagnoses and the details of clinical treatment (what clinicians initially understood by care pathways).
High-level pathways versus care pathways as generally understood

From our point of view, how SLaM has developed high-level pathways now deviates sufficiently from care pathways as generally defined in the literature that they should be thought of as a distinct phenomenon. Particular points of difference between high-level pathways and the Cochrane definition of care pathways are the fact that they do not in most cases ‘translate guidelines or evidence into local structures’ and do not ‘detail the steps in a course of treatment or care’, other than at a very general and non-specific level. Most of all, it is only possible to state that they ‘standardise care for a specific clinical problem, procedure or episode of healthcare’ by abstracting to a very great extent from the specifics of the care that is given. In relation to the EPA definition of pathways—which make less of the role of care pathways in implementing evidence—it is not possible to argue, we felt, that the high-level pathways actually facilitate communication among team members and with patients and families; nor is it possible to argue that they coordinate the care process by ‘coordinating the roles and sequencing the activities of the multidisciplinary care team, patients and their relatives’; nor were they being used to document variances and outcomes.

The high-level pathways developed by SLaM seem to us to have the following characteristics: (a) each pathway describes in outline and at a very general level the activity of staff within a team or teams that are line-managed within a particular management subdivision; (b) the operation of the pathway is directed or influenced through line management arrangements; (c) performance management is used, with team leaders being accountable for performance against targets derived from the pathway; (d) the durability of the pathway entirely depends on the durability of the teams and management structure to which it corresponds—if, in particular, there is a team reorganisation, or new teams are formed, the pathway must change.

These high-level pathways appear to us to share important features with how a production process might be conceptualised. In particular, they have the characteristic, noted above, that the pathway can be taken to refer both to the work of a team and the documentary representation of that work. Like a process model of an industrial process, these schematic pathways formulated and used by the SLaM CAG describe the interrelation between a set of inputs, a set of processes and a set of outputs, exactly in the way that a process model would for a manufacturing process. Equally, the pathway is also taken to indicate that manufacturing process itself, and, furthermore, suggests a relationship between that manufacturing process and its model wherein the latter is a simplified version of the same—one might think, for example, of the relation between the activity ‘wrapping chocolate bars’ and the machinery
and personnel stationed at a particular part of a production line who together perform that work. This industrial metaphor is exactly that used in the literature on product line management—a literature had an indirect influence on the decision to restructure into CAGs, but which appeared to have faded into the background in the early stages of the CAG restructuring. For example, Fetter & Freeman 40 preface their discussion of product line management in hospitals with the following remarks on what a ‘product’ denotes in healthcare:

Chase and Aquilano, 1977, p26 66 define product as "the output from a productive system offered for sale (in the case of a business) or otherwise made available (in the case of a governmental or philanthropic organisation) to some consumer." In this context, a hospital produces the specific goods and services it provides to patients. These include, for example, the x-rays, medication, and lab tests ordered by physicians as part of the treatment process as well as nursing care, operating room facilities, and certain hotel and social services. But, because the real business of the hospital is to treat individual patients, these are really only intermediate outputs. The specific set of these intermediate outputs provided to each patient is a "product" of the hospital. (pp. 41–42)

Other management theories and approaches which similarly place an emphasis on the understanding of the process by which products are produced, and which have been implemented in the NHS, include business process reengineering 67 and Lean an improvement approach to improve flow and eliminate waste that was originally developed by Toyota 68,69. Our respondents did not mention these theories as direct influences, although Lean is mentioned in some project documentation 58. Certainly, descriptions of Lean projects in the literature 68,69 make frequent reference to pathways, and it may be that the background influence of Lean and similar techniques promoted a situation in which the understanding of the term ‘care pathway’ was broadened to encompass ideas of pathways taken from these management approaches.

The key point, however, is that this relationship between a production process and its representation—inherent in the idea of the high-level pathways develop by the SLaM CAGs—does not necessarily inhere in the descriptions and definitions of care pathways in the literature. For example, a care pathway could equally be conceived of as a decision tree and therefore as a resource which functions as a much more specific guide to action. Indeed, this latter characterisation appears closer to the EPA definition 45, as well as to the approach followed in the MAP CAG’s Maps of Medicine based protocols.
Why SLaM has focused almost exclusively on high-level pathways is explained by the context in which it sought to use care pathways between 2010 and 2014. Thus in MAP CAG, the fact that the Maps of Medicine pathways that were developed in 2010 were not used is explained most economically by their lack of relevance to the project of managing a newly formed division which, shortly after formation, had to embark on a very significant team-level reorganisation, most of all in Croydon and in the psychotherapy services for Lambeth, Lewisham and Southwark, and which has since gone on to develop services further. In a context in which the primary need was to establish a set of viable and manageable services with reporting lines and systems of performance management, high-level pathways were perceived to be, and demonstrably have been, a useful tool. We suggest, in other words, that it was the very context of being used in a management restructuring that led to the important modifications that care pathways underwent in the process of being imported into SLaM. This interdependence between the two major programme components of the CAG reorganisation had the result of making it impossible to draw broader conclusions about the effectiveness of care pathways as these are generally understood, for these are not what came to be implemented.

Importantly, SLaM also did not begin its reorganisation with an explicit definition of healthcare quality. While there was undoubtedly a commitment to ‘provide the best service possible within the financial envelope’, the available documentary sources do not support the view that care pathways were chosen as the essential resource for management because of their likely effectiveness at improving healthcare quality, in the terms that this is generally defined 17,70. Following Donabedian’s classic formulation 70, when we attempt to appraise the quality of care we may distinguish between the demonstration that good outcomes have been achieved, that proper processes of care have been applied and that the structures in place for the delivery of care are those that would be expected to favour good medical care. As we have done in part in our evaluation, assessing the quality of care also entails an examination of the effectiveness, safety, patient-centredness, efficiency and equity of care 17.

The high-level pathways developed by the SLaM CAGs are, we suggest, primarily tools to improve some aspects of care processes, but generally leave many aspects of quality of care unexamined and unmanaged. When compared to the typical concept of the care pathway, they even have some important limitations in their ability to affect processes of care. We suggest that these limits result from the close relationship established between the care pathway and the service managers’ view of the concrete production process: the way that this is documented as a high-level pathway tends towards a generalised view of healthcare processes.
that actually abstracts from the specific details of the care given to a particular individual. It is these details, however, which really determine whether or not good quality care was provided.

Our suggestion is that now is an opportune time, five years on, for SLaM to return to the idea of care pathways and to the concept of healthcare quality, and to think again about how care pathways may be of assistance in its continuing efforts to improve the quality of the healthcare that it provides. Because high-level pathways have proven to be of use to the organisation, we suggest that this examination might usefully focus on how to further develop and use care pathways in ways that complement the existing high-level pathways, i.e. further developing the notion of in some way ‘aggregating’ the different aspects of function, form and content that we mentioned on p. 68. It seems to us that any further use of care pathways, or indeed any related way of standardising clinical work or improving its reliability, would require characteristics that complement those that we have identified for high-level pathways. Therefore, we would expect that these alternative methods (a) define in greater detail how the care process should be carried or act as an aid to that work process, rather than correspond to a production process considered only in broad outline; (b) be able if required to target staff working in multiple defined services, possibly spanning CAGs and organisations (c) be capable of influencing or guiding work by means other than line management (d) not necessarily rely on top-down performance management (e) be flexible or durable as the situation demands—able to endure when team structures are reformed, for example, but equally able to be introduced, altered, merged with another pathway or ended, and so on, when this is felt to be appropriate, and (f) be capable of use despite the resources relevant to implementation being spread across different CAGs or indeed across different organisations (for example, SLaM and primary care).

This alternative conception of a care pathway, and its distinction from high-level pathways, is actually rather close to the original concept of product line management, which portrays it as a form of matrix management that is introduced in addition to the existing management structures as opposed to replacing them: Fetter and Freeman suggest the idea of a ‘patient care team’, which is clinically led and flexibly defined, and which exists in order to tie together activities necessarily managed within rigid departmental structures—here we would be thinking of CAGs, but also teams and wards—into a structure that permits management of the production of a particular product. In the case of the MAP CAG, these products might include, for example, episodes of depression care, or episodes of care for someone who has self-harmed. This concept would require the construction of a network of interested individuals who are capable of impacting on the quality problem at hand and who span different management divisions, or indeed span the ‘home’ organisation and other
organisations. Because it is clinical work that is being directly targeted, clinical engagement and clinical leadership would be essential. We suggest that such a team would need an internal sponsor—in the case of pathways for diagnoses and clinical problems this would most obviously be the most relevant CAG—and should have agreed objectives on which to report. Such teams would be expected to change and develop over time, guided by progress against objectives and by the setting of new objectives. The use of a matrix structure would avoid an important conceptual difficulty that SLaM struggled with in distinguishing between high-level and low-level care pathways—it would make very clear that care pathways that explicitly cut across the high-level pathways would not in any sense ‘flesh out’ a high-level care pathway operated by one CAG.

One difficulty, already identified by our respondents, is making changes in an organisation that are not backed by line management arrangements and bricks and mortar managed services. Without tackling this issue there seems little prospect of extending the reach of care pathways into the concrete details of care delivery. However, line management and indeed ‘top-down’ approaches generally are not by any means the only means to motivate change within organisations. For example, in their discussion of how guidelines operate at Intermountain Healthcare, James & Savitz note that they ‘didn’t try to control physicians’ practice behaviour by top-down command and control through an employment relationship’, describing this as a ‘classic blunder’. Instead they ‘relied on solid process and outcome data, professional values that focused on patients’ needs, and a shared culture of high quality’.

Similarly, in relation to the successes achieved as a result of the radical re-engineering of the Veterans Administration (VA) that was undertaken in the 1990s in the US, Francis & Perlin discuss how the development of clinical guidelines and performance measures was as much a bottom-up as a top-down activity within the VA, ‘belying the common misconception that, as a federal health system with many connections to the military, change occurs through “command and control”’ (p. 65); and Kizer & Kirsh suggest that it was a combination of ‘VA’s compelling mission, the clarity of performance expectations, healthy intra-organisational competition, substantial local autonomy and a sense of professional fulfilment’ rather than top-down performance management (p. 396) that drove rapid improvement. They also point out that in recent years things have changed: a more centralist approach is being taken in the VHA and this has undermined the flexibility to tailor local improvement strategies.

There are other important issues that any work to further develop care pathways at SLaM would need to deal with.
The first is deciding what relationship to establish between clinical work, the documentation of that clinical work, and the documentation of a care pathway. A traditional clinical practice guideline exists as a document that, if it gives clear guidance on what action a clinician should take in a particular situation, requires the clinician either to refer to the document or have memorised some part of it. This would be the case for the CAG's own book of clinical protocols, and for the most prominent locally produced guideline—the Maudsley Prescribing Guidelines. In this situation, documenting healthcare and documenting the guideline are two completely separate activities. However, care pathways attempt to fuse these activities so that documenting care is generally seen as a core function of care pathways, alongside their role in standardising care. This would be a major departure from current practice in SLaM. It may also be worth considering some alternative approaches which also attempt some fusion of guidance and clinical documentation. For example, the Standardized Clinical Assessment and Management Plan developed at Boston Children’s Hospital is intended to permit documentation of clinical care as well as communicating the elements of the guideline to be followed and recording a clinician’s choices and reasoning for following or not following the recommended course of action. A similar blended approach has been described by Intermountain Healthcare, whose clinical practice guidelines, developed by groups of clinicians, are integrated into documents such as the case record and order sheets for investigations, and where variances from the guidelines are identified based on a sophisticated clinical information system, and then processed by the project group, often leading to changes in the guideline.

The second, and related, issue that would need to be resolved in order to further develop care pathways are the adaptations that would be necessary to clinical information systems, which in the form of the electronic patient record are used to document nearly every aspect of clinical care. Such changes could be substantial. During the course of our investigation we found that SLaM’s clinical information systems and the related research infrastructure, while sophisticated by British standards, did not suffice to allow us to determine the length of antidepressant treatment, and determining which antidepressant treatment had been given was laborious. Defining psychotherapy receipt was not straightforward. The outcome measures that we used for our investigations were generally not administered frequently or consistently enough to be of assistance in determining progress in treatment, even though the infrastructure needed to record these measures was sufficient. We were able to cost some treatment episodes, but were only able to use unit costs that did not differentiate between different kinds of contact and intervention. Despite this, our view was that SLaM has great potential to work with its own data, given sufficient time, effort and willingness to modify both systems and the way that they are used in clinical practice.
The third, and perhaps most important, issue is that of clinical engagement. As noted above, if the further development of care pathways enters more and more into the domain of clinical activity, it will be essential to engage clinical staff in the process. Among other things, this will require care to ensure that the work of developing and using the new care pathways accords as far as possible with professional norms, that incentives for collaboration are well-structured, and that a persuasive case is made for change 76.

**Implications for practice outside SLaM and for further research**

Changes to management structures internal to healthcare providers are common, but also diverse, being effected for different reasons within organisations that provide different services in different ways and in different contexts. It is therefore improbable that SLaM’s experience with CAGs provides generalisable lessons other than at some level of abstraction. Certainly, our analysis of the key context-mechanism-outcome configurations for the programme indicated that the effects of the CAG restructuring itself were highly context dependent in a way that should make even mental health NHS Trusts changing to service line structures wary of assuming that they will have similar experiences.

We found that SLaM’s CAG reorganisation, five years on, had not had clear effects on the quality of care provided, although over the same period there had been modest changes to the quantity of care provided. It might be argued that changes to quality were not to be expected from a management restructuring, but this is to neglect the role in the programme of care pathways, which are a tool precisely intended to improve quality, and also begs the question of what is to be expected of management restructuring if not improvements in the service or products that the organisation provides. The important lesson for other organisations seems to us to be a warning: it is possible to perform a large-scale management restructuring including the use of a recognised technique for quality improvement and not see resulting improvements in quality. Several other implications stem from this. Firstly, if improvements in quality are aimed at, then first of all it would seem advantageous to map out, in a reasonable level of detail and plausibly, how such improvements are to be attained. Secondly, this model needs to function ongoing as a template for the changes that are actually made, with alterations to that template made explicitly and in response to learning from the process of change. We found that the work on care pathway development that followed the ending of SLaM’s specific CAG development programme in July 2011—for example, the development of a new care pathway for integrated psychological treatment teams—although essential to the MAP CAG, differed from the work that had been sketched out by the CAG development
team, especially the proposed fleshing out of high-level into ‘implementation’ care pathways, which did not happen.

Future researchers may find it most fruitful to attempt to answer some related questions, which we touched on but were unable to address in detail. How do plans for change within organisations arise and then change through the process of implementation? Are there differences in how organisational change is thought of at different levels within the organisation, and how do these differences arise? What is the relationship between the abstract vision of a change and the concrete reality of implementation? Another area of interest is care pathways. As we noted above (p142), the divergence between SLaM’s high-level pathways and care pathways as typically understood is sufficiently wide that SLaM’s experience cannot be taken as indicative of the effects of care pathways in mental health services: this is therefore still a topic requiring further research.

Generally, we found it challenging to use programme evaluation techniques. The transition to CAGs was not presented to us as neatly as we have presented here and teasing out what we felt were the two central programme components took considerable effort. Arguably we were not dealing with a programme as this is typically defined—in particular, it was not always clear what the goals of the programme were, or at least the goals of those primarily concerned with implementing the change. This made it impossible to plan the quantitative research on the basis of the qualitative research, which led to a looser connection between the two. One area where the use of realistic evaluation was valuable, however, was forcing us to think very carefully about the interaction between programme mechanisms and contexts. Had we abandoned programme evaluation and adopted a looser case study approach—as, for example, has on occasion been recommended when what is being evaluated doesn’t really seem like a programme—we might have lacked the structure necessary to force us to consider those issues.

Our practical experience in carrying out the quantitative research may also be helpful for other researchers. This absorbed most of the resources of the study and was also effectively subsidized by NIHR, who fund the infrastructure (the CRIS system) on which we relied. Nearly all of the cost of the quantitative research related to data preparation, which at a rough estimate absorbed 95% of the time of the researchers working on the quantitative analyses. Working with CRIS requires the use of SQL, which is a computer language for databases unknown to most health services researchers, and indeed to many biomedical statisticians. We had those skills within our research team, but most researchers would be dependent on the employment of an SQL programmer or analyst in addition to the other analytic staff required.
Furthermore, having the technical programming skills is not sufficient—working with CRIS requires a clear understanding of the contents of the database, encompassing both the logical data model encapsulated in the database and an understanding of the ways in which the data within the database do and don’t conform to that model, the latter situation leading to the ‘dirty data’ that are generally endemic in databases, albeit in a small minority of cases. Correcting those dirty data, or at least removing the logical anomalies, itself requires SQL views and stored procedures that must be employed during the extraction of the study datasets. All in all, this is a considerably more difficult proposition than working with pre-prepared datasets like Hospital Episode Statistics. It must also frankly be admitted that the quality of the resulting data is not as high as would be achieved by prospective data collection, although the much greater quantity of data does compensate for this.

Conclusion

Even close to five years on, it may be too soon to draw firm conclusions about the effects of SLaM’s CAG restructuring. At this point, it is possible to be clear about the mechanisms through which change was sought—this was not necessarily the case earlier in the programme—and it is also possible to begin to tease out what has and has not changed over the last five years. In general, effects on clinical activity are more apparent at this stage than effects on effectiveness and safety. Our view is that the rationale for the CAG programme remains persuasive and many of the abiding difficulties relate to the relationship between the adult mental health CAGs—something which the current AMH plan is attempting to address. However, detailed examination of what has come of the experimentation with care pathways indicates that much of what is unique and specific to care pathways has not been taken advantage of—a result, we suggest, of the specific way in which care pathways had to be shaped in order to serve the needs of an organisation undergoing a thoroughgoing reshaping of its internal management structure. We hope that this untapped potential is something that will be addressed in the next phase of CAG development.

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Appendix 1 – Interview Schedules
Semi-Structured Interview Framework for MAPLE phase one: staff interviews

CONTEXTS
What is the background to MAP CAG:
- Local context, i.e. KHP and the rationale for the CAGs
- Other relevant service developments
- Commissioner requirements
- General NHS/Government context
- Other?

RATIONALE (if not covered in above)
In general, what is MAP CAG seeking to achieve? (e.g. as in the aims of the CAG given in the application for CAG accreditation June 2011 - i.e. 1. Develop coherent care pathways which utilise evidence-based treatments 2. Build closer links with academics within CAG 3. Develop a skilled workforce 4. Undertake research 5. Extend the high rates of outcome monitoring already achieved)
- What is it about patients’ care that MAP CAG is helping to address?

INPUTS
What is the agreed strategy for MAP CAG?
Who developed and agreed it? (Role of MAP CAG executive and role of Trust Board)
What resources are available to support the programme? Have these changed and how has that been managed? (e.g. CIP)
(In general: where can we access relevant documentation?)

MECHANISMS
Who is (i) steering/managing MAP CAG (ii) taking decisions on what to do?
How will you know whether MAP CAG is having an impact?

ACTIVITIES
What is new about how services and their support are organised and operated now, since MAP CAG has been set up?

OUTPUTS
What are the targets of MAP CAG – who set them?
Where does MAP CAG have the potential to generate measurable change? (e.g. compliance with NICE guidance, developing networks of support for people with enduring mental illness such as the Lambeth Living Well Collaboration, improving patient feedback through PET and PEDIC, development and use of care pathways)
- What measurable things do you want to be different? (e.g. services provided, level of evidence-based care, relations with staff).

OUTCOMES
What will be different because of this service re-organisation?
How will you know whether things are different?
Have these desired changes already started to happen?
Have any undesired changes happened?
Are new ideas emerging?

IMPACT
Describe what you hope will be different in terms of the care that patients get in 5 years time?
How do you think MAP CAG will have contributed to that?
Semi-Structured Interview Framework for MAPLE phase one: service user

Interviews

CONTEXTS
What do you know about the current pattern of services?
What do you know about any significant recent developments?
What is the nature of organisational/clinical relationships with patients?
  • Who does what?
  • Relationship quality?
What needs do you have that you are looking to address?
How are different patient views and perspectives currently (or historically) obtained?

RATIONALE
What do you understand by MAP CAG?
In general, what is MAP CAG seeking to achieve?
What is it about patients' care that MAP CAG is helping to address?
Why did your service become part of MAP CAG – and who drove the interest?
Do you think MAP CAG will help to improve patient care, and, if so, how?

INPUTS
Is there an agreed strategy for MAP CAG?
If so, who developed and agreed it?
What do you know about the resources available to support the programme?

MECHANISMS
Are you aware of who is (i) steering/managing MAP CAG (ii) taking decisions on what to do?
How will you know whether MAP CAG is having an impact?

ACTIVITIES
What do you know about how are services organised and operated now, since MAP CAG has been set up?
What do you experience that is different from the service that was delivered before MAP CAG in terms of the care that patients get?

OUTPUTS
What are the targets of MAP CAG – who set them?
What measurable things do you want to be different? E.g. services provided, level of evidence-based care, relations with staff,

OUTCOMES
What do you want to be different because of this service re-organisation?
How will you know whether things are different?
Have these desired changes already started to happen?
Have any undesired changes happened?
Are new ideas emerging?

IMPACT
Describe what you hope will be different in terms of the care that patients get in 5 years time?
How do you think MAP CAG will have contributed to that?
Appendix 2 – Initial list of themes

1. Addressing problems
2. Available data
3. Background
4. Borough services
5. Bringing in right people
6. Business case
7. CAG as means to an end
8. CAG development
9. CAG development groups
10. CAGs as structures setting a framework
11. Care pathways
12. Commissioners
13. Compromise
14. Continuity
15. Coordination
16. Cross subsidies
17. Distinction from acute CAGs
18. Duplication of performance measurement
19. Efficiency savings
20. Financial issues
21. Integrated working
22. Interface between mental health and acute CAGS
23. KHP accreditation process
24. Lines of accountability
25. Local solutions
26. Names and scope of CAGS
27. Natural progression
28. Need for change
29. Organisational buy-in
30. Organising the system
31. Performance council
32. Performance measurement
33. Pre-existing structures and services
34. Psychological service review
35. Public health
36. Role of primary care
37. Service development
38. Service line management
39. Service specifications
40. Service user view
41. Standards
42. Supportive corporate and executive infrastructure
43. Timing
44. Translating research into practice
45. Tripartite mission
46. Two tensions
47. Work of assessment teams
48. Working together (taken from NVivo nodes.1doc.docx)
Appendix 3 – Final list of themes and subthemes

(taken from chapter two.docx and used as the basis for writing the final report)

Different visions
  KHP vision
  Need for change already
  Different agendas
Financial stability and the influence of commissioning
Inherited issues
CAGs
Care pathways
Appendix 4 – Ethics
The Effects on Care for Common Mental Disorders of the Introduction of Management by a Clinical Academic Group (The SDO-MAPCAG Study)

Work Package 1: Logic Model Development

Information about the research – Service Users

You have been invited to take part in a research study. Before you decide whether or not to take part, you need to understand why the research is being done and what it involves. Please take time to read this information. Talk to others about the study if you wish. Ask one of the researchers (Diana Rose, Bryony Soper or Alex Tulloch) if there is anything else that you would like to know. Take as long as you need before deciding whether or not to take part.

The study is being carried out by the Institute of Psychiatry, which is part of King's College London, and is funded by the National Institute of Health Research. It has been reviewed by a research ethics committee to ensure that it will be carried out in an ethical way.

Why study the introduction of management by a clinical academic group?

South London and Maudsley NHS Foundation Trust (SLaM) provides specialist mental health services to much of South London. It recently underwent a management restructuring, particularly affecting mental health services for adults of working age. Among the major effects of this has been a change in how SLaM manages its services for people with common mental disorders (mostly depression, anxiety and personality disorders). Previously, the teams treating people with such problems were managed by borough directorates, which also managed teams mainly dealing with people who have other problems. Now, the teams dealing with common mental disorders are managed as a unit (a Clinical Academic Group), and the managers are therefore responsible exclusively for the organisation of care for these disorders.

The aim of our research programme as a whole is to find out what effects this reorganisation has had, how these effects came about, and what the implications are for SLaM and for other NHS organisations.

We are asking you to help us with one part of this programme, which is to develop a “logic model” for the introduction of the Clinical Academic Group. A logic model is a diagram showing the mechanisms by which the introduction of the Clinical Academic Group is thought to produce its effects. At first, the model will be built using your (and others’) knowledge of the Clinical Academic Group, of SLaM, and of how things happen in the NHS (from the perspectives of staff, users and carers). This will help us to know what to look for when (in the other part of the programme) we seek out data to help us provide evidence for the effects of the reorganisation. Later, the results of this other part of the programme will be presented to you and the other participants so that you can help us to refine the original logic model so that we can use it to provide a detailed interpretation of the results.

Why have I been approached?

You are a user of SLaM’s services for common mental disorder. You are either involved in the advisory group for the Mood, Anxiety and Personality Clinical Academic Group or have indicated to someone involved in that group that you may be willing to consider participating.
Do I have to take part?

No. It is entirely up to you. After reading through this information and talking to the researcher you will be given a consent form which you will need to sign if you wish to take part. Take as long as you need to decide whether to take part or not.

You can change your mind later about taking part in the study without giving a reason. If you wish to withdraw you simply need to let the researcher know. We will use information collected from you up to the point that you leave the study; any such information will be treated as confidential, exactly as it would be had you continued in the study (see ‘What does the research involve’ below).

Your decision to take part in the study or not take part in the study will not influence your care in any way.

What does the research involve?

We would like you to attend three group meetings over the next few months. The first two of these will be between you, two other carers and the researchers. The third meeting will also be attended by six staff members and by three service users. Around ten months after the study starts you will be invited to a further joint meeting, and there will also be a final joint meeting around 22 months after the study start. Each meeting will last one to two hours. You will be asked to work with the researchers and other participants, talking about the Clinical Academic Group program, learning from other participants about the program and their views about it, and working on the “logic model”. You will not have to talk about any health problems that you yourself may have had, although we hope that your contributions will draw on your experience of how SLaM’s services operate.

Although most of the work of producing the logic model will be done during the meetings we will also wish to record the meeting for later analysis. We will ask your permission to do this. When we record an interview the recording will be stored securely. If we transcribe the interview, identifying details will be replaced with a codeword. The meetings will take place either at the Maudsley Hospital or at the Institute of Psychiatry in Camberwell.

The main results of the study will be presented in professional journals, in reports back to the National Institute of Health Research and through other channels, for example, conferences and research briefings. Your involvement in the study will be strictly confidential and we will take care not to publish other details that might allow you to be identified. When we write about the research we may wish to use direct quotes from you if they illustrate particular points in the results. Again, we will ensure that no details will be present that would allow you or any other person to be identified. We will never allow personal details about you to be spread outside the research team at the Institute of Psychiatry. In particular, we will not pass any such information back to anyone involved in your treatment, to any family member or any other carer.

Any information collected will be kept securely for up to five years in order to permit the research team to re-examine and, possibly, reanalyse data. It will be destroyed after that point.
You will be offered reimbursement for travel expenses. We will arrange refreshments. We will also offer you £25 as compensation for the time involved in taking part.

What if there is a problem?

If you are concerned about the research or wish to make a complaint you may contact the project coordinator Dr Alex Tulloch about this (see the top of the first page for contact details). Alternatively, you can use the NHS Complaints Procedure. We do not anticipate that any harm will result from this study, but a system of 'no-fault' compensation is in place at Kings College London to provide for this.
The Effects on Care for Common Mental Disorder of the Introduction of Management by a Clinical Academic Group: the MAPCAG Longitudinal Evaluation (MAPLE)

Work Package 1: Logic Model Development

Consent Form – Service User

I confirm that I have read the information sheet for service users for this study / had the information sheet for service users for this study read to me (delete as applicable). I have had the opportunity to ask questions and to consider whether or not I wish to take part.

YES/NO

I understand that my participation is entirely voluntary and that I can withdraw from the study at any time without giving a reason and that this will not affect my treatment or my rights.

YES/NO

I understand that relevant sections of the data collected during the study may be looked at by individuals from regulatory authorities, where it is relevant to my taking part in this research. I give permission to these individuals to have access to my records.

YES/NO

I consent to participate in the study.

YES/NO

In addition I agree to an audio recording of interviews being made.

YES/NO

In addition I agree that direct quotes from me may be used in presenting the results of the study. I understand that any information that would allow me or any other person to be identified will be removed. (Please note that consent to this is not necessary in order to participate in the study).

YES/NO

PLEASE PRINT AND SIGN YOUR NAME BELOW:

........................................................................................................................................................................
........................................................................................................................................................................

Researcher’s signature.................................
Date............................................................
The Effects on Care for Common Mental Disorder of the Introduction of Management by a Clinical Academic Group: the MAPCAG Longitudinal Evaluation (MAPLE)

Work Package 1: Logic Model Development

Information about the research – Staff / Professional

You have been invited to take part in a research study. Before you decide whether or not to take part, you need to understand why the research is being done and what it involves. Please take time to read this information. Talk to others about the study if you wish. Ask one of the researchers (Diana Rose, Bryony Soper or Alex Tulloch) if there is anything else that you would like to know. Take as long as you need before deciding whether or not to take part.

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The aim of our research programme as a whole is to find out what effects this reorganisation has had, how these effects came about, and what the implications are for SLaM and for other NHS organisations.

We are asking you to help us with one part of this programme, which is to develop a "logic model" for the introduction of the Clinical Academic Group. A logic model is a diagram showing the mechanisms by which the introduction of the Clinical Academic Group is thought to produce its effects. At first, the model will be built using your (and others') knowledge of the Clinical Academic Group, of SLaM, and of how things happen in the NHS (from the perspectives of staff, users and carers). This will help us to know what to look for when (in the other part of the programme) we seek out data to help us provide evidence for the effects of the reorganisation. Later, the results of this other part of the programme will be presented to you and the other participants so that you can help us to refine the original logic model so that we can use it to provide a detailed interpretation of the results.
Why have I been approached?

You are a professional involved with SLaM’s Mood, Anxiety and Personality Clinical Academic Group, either as a SLaM or KCL staff member, or as a referrer to the service.

Do I have to take part?

No. It is entirely up to you. After reading through this information and talking to the researcher you will be given a consent form which you will need to sign if you wish to take part. Take as long as you need to decide whether to take part or not.

You can change your mind later about taking part in the study without giving a reason. If you wish to withdraw you simply need to let the researcher know. We will use information collected from you up to the point that you leave the study: any such information will be treated as confidential, exactly as it would be had you continued in the study (see 'What does the research involve' below).

Your decision to take part in the study or not to take part will not influence your employment in any way.

What does the research involve?

We would like you to attend three group meetings over the next few months. The first two of these will be between you, five other professional / staff informants and the researchers. The third meeting will also be attended by three carers of users of the services offered by the Clinical Academic Group and by three service users. Around ten months after the study starts you will be invited to a further joint meeting, and there will also be a final joint meeting around 22 months after the study start. Each meeting will last one to two hours. You will be asked to work with the researchers and other participants, talking about the Clinical Academic Group program, learning from other participants about the program and their views about it, and working on the “logic model”.

Although most of the work of producing the logic model will be done during the meetings we will also wish to record the meeting for later analysis. We will ask your permission to do this. When we record an interview the recording will be stored securely. If we transcribe the interview, identifying details will be replaced with a codeword. The meetings will take place either at the Maudsley Hospital or at the Institute of Psychiatry in Camberwell.

The main results of the study will be presented in professional journals, in reports back to the National Institute of Health Research and through other channels, for example, conferences and research briefings. Your involvement in the study will be strictly confidential and we will take care not to publish other details that might allow you to be identified. When we write about the research we may wish to use direct quotes from you if they illustrate particular points in the results. Again, we will ensure that no details will be present that would allow you or any other person to be identified.

Any information collected will be kept securely for up to five years in order to permit the research team to re-examine and, possibly, reanalyse data. It will be destroyed after that point.
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The Effects on Care for Common Mental Disorder of the Introduction of Management by a Clinical Academic Group: the MAPCAG Longitudinal Evaluation (MAPLE)

Work Package 1: Logic Model Development

Consent Form – Staff & Professionals

I confirm that I have read the information sheet for staff & professionals for this study. I have had the opportunity to ask questions and to consider whether or not I wish to take part.

YES/NO

I understand that my participation is entirely voluntary and that I can withdraw from the study at any time without giving a reason and that this will not affect my rights.

YES/NO

I understand that relevant sections of the data collected during the study may be looked at by individuals from regulatory authorities, where it is relevant to my taking part in this research. I give permission to these individuals to have access to my records.

YES/NO

I consent to participate in the study.

YES/NO

In addition I agree to an audio recording of interviews being made.

YES/NO

In addition I agree that direct quotes from me may be used in presenting the results of the study. I understand that any information that would allow me or any other person to be identified will be removed. (Please note that consent to this is not necessary in order to participate in the study).

YES/NO

PLEASE PRINT AND SIGN YOUR NAME BELOW:

………………………………………………………………………………………………………………………
………………………………………………………………………………………………………………………

Researcher’s signature........................................
Date............................................................