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Title: A Research Paradigm That Tackles The Complexity of In Situ Care - Video Reflexivity

This issue of BMJ QS presents a study conducted at the University of Michigan to evaluate ‘video reflexivity’ (VR, also referred to as VRE or ‘video-reflexive ethnography’) as a means for intervening in how physicians and nurses work together. The study found “increased reflection in both nurse and physician participants”, an outcome also reported (among other things) in related studies from the UK, Australia, New Zealand and the US. ‘Increased reflection’ may not set the hearts and minds of quality and safety experts on fire. And yet this finding is significant.

Consider that healthcare improvement initiatives, patient safety research, and system-wide implementation programmes have to come to terms with the implications of rising care complexity. This rise in complexity is due to increasing multi-morbidity, mobility and migration, ageing, public assertiveness, technological advances, staff turnover, mounting information, scientific uncertainty, intensifying bureaucratic regulations, and rising financial pressures, among many others. These confounders converge upon day-to-day care, and they can tear up its routines and plans in an instant. Reflection on how to proceed amidst the resulting complex circumstances enables clinicians to navigate care more effectively – if by reflection we mean not simply a single person reassessing events and past actions in thought, but team members (and patients) collectively exploring and discussing real-time video footage of their own care to reshape practices and practice contexts. This latter process of reflexive deliberation involves people in learning with and from one another about how care works, and about how to convert uncertain, sub-ideal, unstable and often tragic circumstances into mutually agreed ways forward.

Much learning about complex care circumstances is currently achieved through simulation training and workplace participation. In mimicking reality, simulation inevitably imposes some degree of simplification. For its part, workplace participation offers ample opportunities for reflection on complex events, but does not often enough capitalise on these opportunities in practice. Unique about VR is that it takes naturally-occurring complexity as its point of departure for learning and improvement. An example of this can be seen in footage of an infected intensive care unit patient being moved to an isolation room creating numerous infection risks, with staff then being shown reflecting on and learning from the complexity and challenges inherent in this event (see supplementary materials accompanying: https://innovations.bmj.com/content/1/4/157#supplementary-materials).

To be sure, complexity poses a huge challenge for how we achieve healthcare quality and safety, and complex events confront us with in situ problems that demand innovative responses. Nevertheless, the quality and safety literature on complexity in health care puts its faith into complexity-scientific theoretical principles that are credited with yielding ‘understanding’ of such complex problems. This in effect means this literature “proceed[s] from the ‘simple’ to the ‘complex’ (as 17th century ‘empiricists’ and ideologists like John
Locke thought we should and could)". Its approach to analysis, moreover, sanctions “the isolation of measurable parts and hence the sacrifice of any genuine commitment to complexity”. Its overall aim is to reduce (care) complexity to “an object to be viewed or even ‘controlled’ from an imaginary ‘outside’”.

It is important to acknowledge however that the theorisation of complexity has sought to target phenomena that are difficult if not impossible to anticipate and control. As the gathering point for the various confounders listed above, contemporary care is replete with such complex phenomena. Homing in on care as it happens, VR harnesses *in situ* manifestations of complex phenomena in the form of real-time video footage for bottom-up learning and intervention. This is not just about asking, what can we learn from reviewing how we just moved four infected patients through the ICU into isolation rooms? It is also asking, albeit indirectly, how can we become better at *reading* and negotiating complexity in general? In these ways, VR ensures that participants move “from the complex to the *structures of complexity* including their environments”. A burgeoning VR literature now demonstrates that this process skills participants in complexity-sensitive deliberations, complexity-competent modes of learning, and complexity-pertinent ways forward.

Given the ubiquity of the visual it is not surprising that singers, musicians, athletes, teachers and many others now use vision to enhance personal and team performance, and to intervene in their performance contexts. When clinicians review footage of their own work, their attention is drawn to the complexities that become apparent in what they do together: the heady mix of historical, contextual and systemic confounders, the multitude of unacknowledged conditions and unintended consequences, and the host of taken-as-given personal and professional habits and routines.

Indeed, what strikes VR participants is that the footage confronts them with otherwise taken-for-granted behaviours, practices and contexts. They witness themselves accommodating constraints, pursuing preoccupations and enacting routines that on reflection appear at once distant and familiar, puzzling and thoughtless. This defamiliarisation effect is defining of VR: participants learn to ask questions of themselves, of each other, and about their service operations and system contexts. Asking questions is paramount here: it is the strategy *par excellence* for teams navigating complexity *in situ*, since posing questions of ourselves, of each other, and about our circumstances, is precisely what complexity does too.

The foregoing explains why organisations like the Mayo Clinic and Michigan Medicine are turning to VR for strengthening their safety and quality of care. They recognise the significance of granting frontline actors a front-stage role in reflecting on *in situ* care complexity and using their experience, insight and questions to rethink clinical processes, service structures and healthcare systems.

References