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Paediatric subspecialty education involves the state-of-the-art training and practice on specific scientific fields of Paediatrics requiring clinical expertising and academic excellence (1). The medical school settings and the tertiary hospitals have been specified as the main employment sites of paediatric subspecialists, where their major professional activities include direct paediatric patient care, teaching, as well as management duties. A combination of enhanced paediatric demands and expectations have contributed to the need for standardised and comprehensive training programmes, focusing on the suitable education of paediatric subspecialty trainees.

The paediatric infectious diseases subspecialty is one of the first subspecialities, which has been included in the paediatric training programmes in several countries, worldwide (2). To date, paediatric infectious diseases professionals have achieved a distinct role within the scientific field of Paediatrics and their contribution to tertiary paediatric care is considered invaluable (3,4). However, over the past decade, scientific advances on the field of Clinical Virology and Molecular Medicine have led to changes in current clinical practice of viral infections in neonates and children (Fig. 1). They will thus regular reviewing of this matter is required (6). Additional scientific fields, including Evidence-based Medicine, Clinical Governance and Pharmacokinetic/Pharmacodynamics (7) have also a significant supportive input. These advances have highlighted the role of Paediatric Virology as a new paediatric subspecialty candidate, a new unique challenging scientific area, where paediatric professionals of the 21st century require an advanced state-of-the-art education. The new challenges related to paediatric viral infections include emerging infections, opportunistic infections in immunocompromised patients, antimicrobial resistance and the development of new diagnostic tests, vaccines and antiviral agents, ensuring the future of this paediatric subspecialty.

The word ‘Paediatric’, referring to the branch of Medicine that deals with the medical care of children, derives from two ancient Greek words: ‘παιδί’ (pais), which in modern Greek has changed to ‘παιδί’ (paidi), meaning the ‘child’ and ‘ἰατρός’ (iatzis), meaning ‘the doctor’ or ‘the healer’, from the verb ‘ἱαόμαι’ (iaome), meaning ‘healing’. On the other hand, the word ‘Virology’, the study of viruses, comes from the Latin word ‘virus’, meaning ‘the poison’, which has been in common use in the English language for many centuries and the ancient Greek word ‘λύγος’ (logos) from the verb ‘λέγω’, meaning ‘talk about’. The ancient Greek origin of virus, ‘ιός’, comes from the verb ‘ιόμαι’ (iimo), meaning ‘actuating, causing movement’, such as throwing an arrow or a poison. Both words in the term ‘Paediatric Virology’ contain the 9th letter of the Greek alphabet ‘ι’, the vertical line presented as an upright rod, an Homer’s symbol of the strength of life. Of note, both actions ‘ιόμαι’ supporting life and ‘ιόμαι’ causing movement denote the strength and power that a children’s healer needs in order to fight the small viral agents that pose a threat to the health and the life of children.

Paediatric trainees are proposed to play a leading role in this new subspeciality of Paediatrics, gaining valuable clinical and research experience on the prevention and management of viral infections in neonates and children (Fig. 1). They will be involved in the clinical care for hospitalised children with uncommon, recurrent, severe or complex neonatal and paedi-
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Clinical paediatric viral infections and will focus on their comprehensive assessment and treatment. Moreover, they will enhance the coordination of hospital and community care teams and offer appropriate consultation and assistance. After their qualification, Paediatric Virology subspecialists will play a multi-task role, not only in university-based research and educational settings, but also in primary, secondary and tertiary paediatric services (Fig. 2). Their increased accessibility can potentially result in cost savings to the health care system and better quality of care for paediatric patients. This will be achieved by limiting the unnecessary utilisation of emergency rooms, the multiple clinical visits to various health care providers and the request of unwarranted investigations.

It is important to determine whether and how Paediatric Virology as a new paediatric subspecialty can help paediatric clinical practice. In the present era of job limitations due to the financial crisis, it would be interesting to determine whether this subspecialty can support educational and academic strategies promoting current paediatric health and prevention. Without any doubt, our proposal requires further evaluation and discussion. The official recognition of Paediatric Virology by the key worldwide scientific and academic paediatric stakeholders will allow the development of an accredited training programme able to attract the highest quality paediatric trainees. In the future, Paediatric Virology subspecialists will be expected to have a strategically principal role, both clinical and academic, at the fight against viral infections in childhood. These efforts will aim to offer a state-of-the-art continuous medical education provided by both clinicians and basic scientists. This definitely needs more time, passion and inspiration.

Figure 1. The proposed subspecialty training programme of Paediatric Virology. HIV, human immunodeficiency virus; NICU, Neonatal Intensive Care Unit; PICU, Paediatric Intensive Care Unit; PIDD, Paediatric Infectious Diseases Department.

Figure 2. The proposed multi-task role of Paediatric Virology subspecialists in primary, secondary and tertiary paediatric services, university-based research and educational settings.
References


