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1. The RECOVERY Collaborative Group. Dexamethasone in hospitalized patients with Covid-19 – preliminary report. *N Engl J Med.* 2020, <http://dx.doi.org/10.1056/NEJMoa2021436>.
2. Meduri GU, Golden E, Freire AX, Taylor E, Zaman M, Carson SJ. Methylprednisolone infusion in early severe ARDS: results of a randomized controlled trial. *Chest.* 2007;131:954–63.
3. Annane D, Sebille V, Bellissant E. Effect of low doses of corticosteroids in septic shock patients with or without early acute respiratory distress syndrome. *Crit Care Med.* 2006;34:22–30.
4. Xu K, Chen Y, Yhan J. Factors associated with prolonged viral RNA shedding in patients with COVID-19. *Clin Infect Dis.* 2020: ciaa351.
5. The WHO Rapid Evidence Appraisal for COVID-19 Therapies (REACT) Working Group, Sterne JAC, Murthy S,

et al. Association between administration of systemic corticosteroids and mortality among critically ill patients with COVID-19: a meta-analysis. *JAMA.* 2020;324:1330, <http://dx.doi.org/10.1001/jama.2020.17023>.

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Strategies to maintain high-quality education and communication among the paediatric and neonatal intensive care community during the COVID-19 pandemic



Estrategias educativas y de comunicación de alta calidad en cuidados intensivos pediátricos y neonatales durante la pandemia de COVID-19

Dear Editor,

The coronavirus 2019 (COVID-19) pandemic represents a real challenge for the medical community. Considering these circumstances, the European Society of Paediatric and Neonatal Intensive Care (ESPNIC) analyzed how to efficiently reach its members, how to easily share updated content on the new disease, and how to implement new education and communication strategies.

A discussion on the impact of the pandemic on medical education has already been started within the medical

community.¹ The transition to online classes and the cancellation of clinical practice sessions, rotations and medical conferences, result in less collaborative experiences and networking, which are known to impact on the career development of young investigators.² As a first step in the process of filling this gap, starting in 2020 spring, ESPNIC offered a series of webinars (promoted via social media as #ESPNIC-COVID19 webinars) focusing on the management of COVID-19 in children and neonates (webinar topic list is uploaded as Electronic Supplementary Materials [Table 1](#)). Each webinar included 60 min of free-to-access expert teaching followed by a 20-min discussion on the topic and the possibility of true networking with the speakers during and after the sessions. Almost 3000 people attended the ESPNIC webinars from 97 different countries (distribution displayed in ESM – [Fig. 1](#)). Interestingly, 15% were multidisciplinary health-care providers not regularly working in the intensive care field. Besides the webinars, ESPNIC provided online tutorials focused on non-invasive and invasive ventilatory support, which was felt as most relevant topics for the audience in the given circumstances.

The “virtual wave” during the pandemic is confirmed by increased social media engagement in our field.³ In

Table 1 Topics of the ESPNIC webinar series held between April 1, 2020 and July 31, 2020.

	Date	Topic
1	April 7, 2020	Practical guidance for nurses caring for COVID-19 patients in the PICU
2	April 13, 2020	Non-invasive Ventilatory Support in Children during COVID-19 Pandemic -
3	April 15, 2020	EPICENTRE presentations: a register for neonatal and paediatric COVID 19
4	April 16, 2020	Joint session with the European Academy of Paediatrics (EAP) on Ethics
5	April 20, 2020	The role of ECMO in the current pandemic experience so far
6	April 25, 2020	EPICENTRE presentations #2: a register for neonatal and paediatric COVID 19
7	April 28, 2020	Family-Centered Care in the PICU during the COVID-19 pandemic
8	April 30, 2020	Invasive Ventilation in Children during COVID-19 pandemic
9	May 6, 2020	Retrieval Medicine and Transport Logistic in COVID-19 Pandemic: An European Perspective
10	May 20, 2020	A conversation on perinatal and neonatal COVID19: experiences from Europe and China
11	June 10, 2020	Preventing and managing clinical deterioration in the COVID-19 child
12	July 3, 2020	What does an intensivist need to know about AKI and RRT in COVID 19?

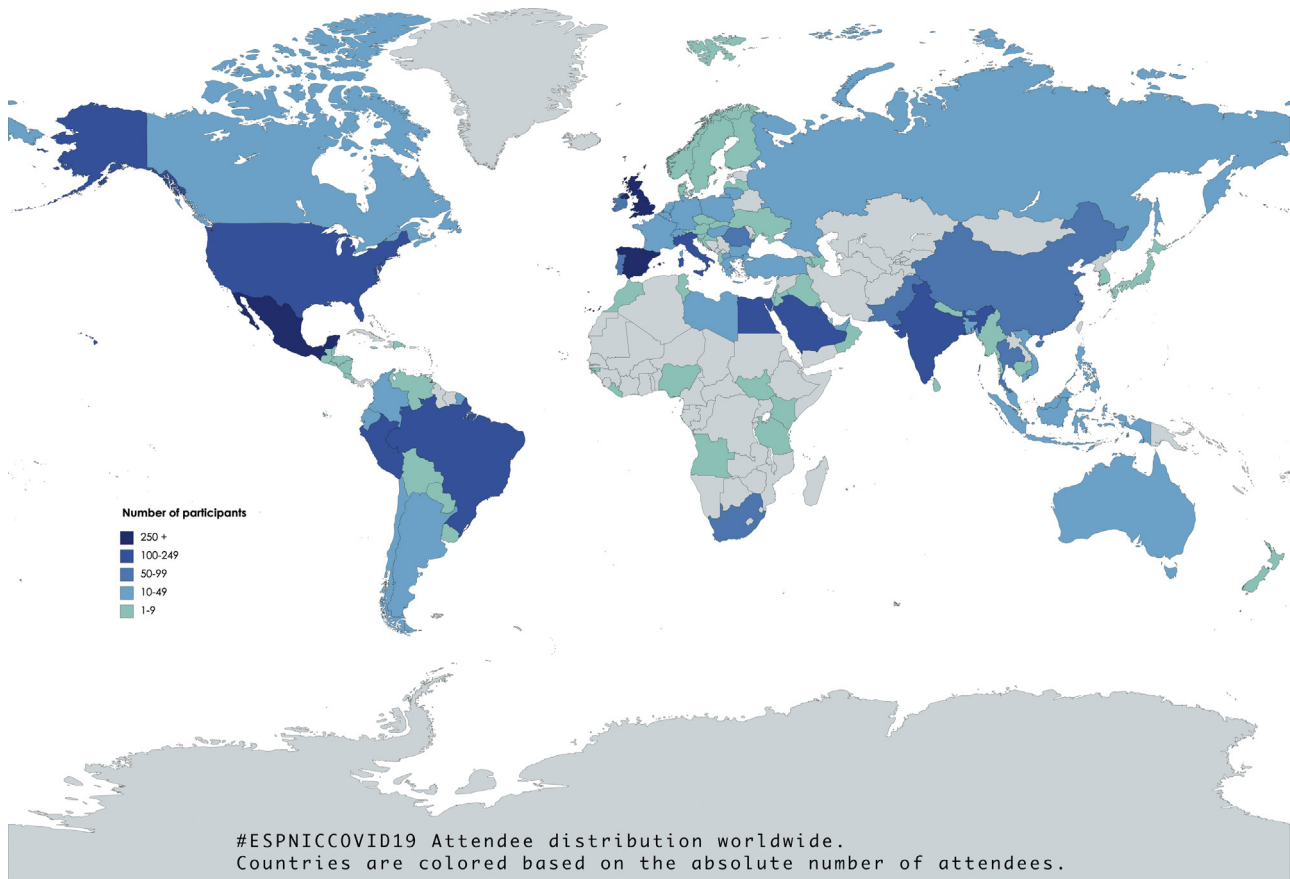


Figure 1 Countries reached by the ESPNIC webinars during the COVID-19 outbreak.

order to increase its educational impact, ESPNIC nominated a "Social Media board", consisting of intensive care physicians, trainees, and communication experts. Scientific papers, literature contents, as well as qualified educational materials for young trainees, have been regularly shared, reaching over 3500 followers in the first few months. A recent analysis of the use of social media for sharing high-quality content during the pandemic identified ESPNIC as a point of reference in the networking pattern of the paediatric intensive care community.³

In conclusion, the COVID-19 pandemic represented a true accelerator of the teaching evolution into remote learning. These virtual formats have been proposed and applied by academic institutions and scientific societies as the "new normal" for postgraduate and continuing medical education. However, the complete shift of standard educational activities into their online version can lead to online networking tiredness, anxiety or worry secondary to the over-use of these virtual tools, known as "Zoomfatigue".⁴ This phenomenon should not be underestimated, and a real balance should be reached between communication and information overload. The evolution of information spreading through social media is also worth noting. Despite the hardship, ESPNIC remains committed to maintaining the same high-level support for its members and for the #PedsICU and #NICU community. ESPNIC's experience could represent a useful example for other scientific societies and

organizations which are implementing new, creative education and communication strategies.

Authors' contributions

All authors equally contributed to the study's conceptualization. ZG, FS and AZ wrote the first draft of this manuscript which was then critically reviewed and amended by AM and MK. AZ gathered and analyzed the dataset about webinar participants. ZG prepared the figure and tables for the electronic supplementary material. All authors read and approved the final manuscript.

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Conflict of interest

At the time of writing this manuscript, AM, MK and AZ were members of the executive committee of the European Society for Paediatric and Neonatal Intensive Care (ESPNIC). ZG and FS were members of the ESPNIC Social Media board. The authors have no conflicts of interest to declare.

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References

1. Ferrel MN, Ryan JJ. The impact of COVID-19 on medical education. *Cureus*. 2020;12:e7492, <http://dx.doi.org/10.7759/cureus.7492>. Published 2020 Mar 31.
2. Dedeilia A, Sotiropoulos MG, Hanrahan JG, Janga D, Dedeilias P, Sideris M. Medical and surgical education challenges and innovations in the COVID-19 era: a systematic review. *In Vivo*. 2020;34 Suppl.:1603–11, <http://dx.doi.org/10.21873/invivo.11950>.
3. Kudchadkar SR, Carroll CL. Using social media for rapid information dissemination in a pandemic: #PedsICU and coronavirus disease 2019. *Pediatric Crit Care Med* 2020;21:e538–46. [doi:10.1097/PCC.0000000000002474](https://doi.org/10.1097/PCC.0000000000002474).
4. Wiederhold BK. Connecting through technology during the coronavirus disease 2019 pandemic: avoiding “zoom fatigue”. *Cyberpsychol Behav Soc Netw*. 2020;23:437–8, <http://dx.doi.org/10.1089/cyber.2020.29188.bkw>.

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