Are we confident that we all share a common understanding of discomfort in febrile children?

Gregorio P. Milani, MD^{1,2} • Antonio Corsello, MD² • Peter J. Schulz, PhD^{3,4} • Marta Fadda,
PhD⁵ • Maria Lorella Giannì, MD^{2,5} • Ilaria Alberti, MPH¹ • Anna Comotti, PhD⁶ • Paola

Marchisio, MD^{1,7} • Elena Chiappini, MD⁸ • Diego Peroni, MD⁹

¹Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Pediatric Unit, Milan, Italy

²Department of Clinical Sciences and Community Health, Università degli Studi di Milano, Milan, Italy

³ Faculty of Communication, Culture and Society, Università della Svizzera italiana, Switzerland

⁴Department of Communication & Media, Ewha Womans University, Seoul, Korea

⁵Institute of Public Health, Faculty of Biomedical Sciences, Università della Svizzera italiana, Switzerland

⁵ Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Neonatal Intensive Care Unit, Milan, Italy

⁶Occupational Health Unit, Foundation IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.

⁷Department of Pathophysiology and Transplantation, University of Milan, 20122 Milan, Italy ⁸Paediatric Infectious Disease Unit, Meyer Children's University Hospital, Department of Health Sciences, University of Florence, 50139 Florence, Italy

⁹Department of Clinical and Experimental Medicine, Section of Pediatrics, University of Pisa, Italy

Corresponding author: Gregorio P Milani, Pediatric unit, Foundation IRCCS Ca' Granda,

Ospedale Maggiore Policlinico, via della Commenda 9, 20122 Milan, Italy. Tel: 0039(0)255038727,

Fax: 0039(0)255032918, email: milani.gregoriop@gmail.com

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We are pleased that Verd et al. have taken the time to read and acknowledge the value of our

interventional study on fever management among final year medical students [1,2].

As members of the academic community, we strongly advocate for the dissemination of evidence-

based information to future healthcare professionals. It is crucial to prioritize teaching students the

current consensus based on international guidelines and recent research findings rather than relying

on individual opinions. However, from the comment by Verd et al.'s, it appears that the authors may

not be fully informed about recent evidence regarding the effects of antipyretics on febrile children

and the international guidelines on the management of pediatric fever. For instance, a recent

observational study conducted by some of us suggested that paracetamol not only significantly

reduces body temperature but also provides relief from discomfort in febrile children [3]. The

prevailing consensus among worldwide guidelines underscores the importance of treating fever

based on the presence of discomfort, rather than a predetermined body temperature threshold [3].

This topic was a focal point in our study [1].

Furthermore, we appreciate Verd et al.'s comment for drawing attention to the concept of child

discomfort. We believe that the assessment of this condition warrants further attention. Are

physicians, nurses, and caregivers aligned in their understanding and interpretation of the concept of

discomfort in childhood? We posit that additional studies are necessary to explore and elucidate the

assessment of discomfort in febrile patients, particularly in infants, as this area holds promising potential for enhancing our comprehension of pediatric fever management. We advocate for comprehensive investigations employing both quantitative and qualitative study designs.

In conclusion, we value Verd et al.'s contribution to the ongoing discourse surrounding antipyretic use in pediatric care. Their letter might serve as a reminder that scientific progress and teaching are an iterative process, constantly evolving with new discoveries and insights. This process should consider international recommendations, include updated evidence, and involve, in our opinion, healthcare students to advance our understanding and day to day management of pediatric fever.

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References

- 1. Milani, G.P.; Corsello, A.; Schulz, P.J.; Fadda, M.; Giannì, M.L.; Alberti, I.; Comotti, A.; Marchisio, P.; Chiappini, E.; Peroni, D. Childhood fever and medical students: a multicenter, educational intervention. *Acta Paediatr* **2023**, 10.1111/apa.16790, doi:10.1111/apa.16790.
- 2. Verd, S.; Rodríguez-Trabal, C.;. Mambié, M. Lack of evidence for a beneficial effect of antipyretic drugs. *Acta Paediatrica* **2023**.
- 3. Chiappini, E.; Bestetti, M.; Masi, S.; Paba, T.; Venturini, E.; Galli, L. Discomfort relief after paracetamol administration in febrile children admitted to a third level paediatric emergency department. *Front Pediatr* **2023**, *11*, 1075449, doi:10.3389/fped.2023.1075449.