We read with great interest the article by Fumis and Deheinzelin [1] in a previous issue of Critical Care. We are convinced that the subject – the withdrawal of respiratory support in intensive care units (ICUs) – is of interest to the ICU community but think that some of the conclusions are somewhat disputable.

First, we agree with the authors that family involvement in the withdrawal process is important; however, this does not necessarily imply that relatives should join in the withdrawal decision-making. This point was already demonstrated by Azoulay and colleagues [2], who showed that direct participation in the withdrawal decision of family members is directly associated with feelings of guilt and the development of post-traumatic stress reactions (PTSRs).

Second, Fumis and Deheinzelin state that European ICU physicians are, in comparison with their North American colleagues, less inclined to withdraw treatment. This statement is not in concordance with our own experience. The withdrawal rate in our Dutch ICU is 83% of the patients who died in the ICU [3]. This result is fully supported by the ETHICUS (Ethics in European Intensive Care Units) study, which reported that withdrawal of treatment is a generally accepted form of end-of-life care in Europe, especially in Northern Europe [4].

Finally, in our opinion, it is the treating physician who, after consultation with colleagues, has the knowledge and experience to make a clear and fair judgment concerning the prognosis of a patient. In case of a poor prognosis, it is the duty of that physician to make the withdrawal decision clear and acceptable to the patient, the relatives, and the nurses.

**Authors’ response**

Renata RL Fumis and Daniel Deheinzelin

We thank Epker and colleagues for their comments. The points they make rely upon the fact that end-of-life treatment involves ethical dilemmas. Moreover, under identical clinical circumstances, different physicians may adopt different approaches. As such, there are significant differences in the rates of withdrawing and withholding treatments, the use of advanced directives, the designation of surrogates, and the involvement of families in end-of-life decision-making [5]. In our study, we found that discussions of withdrawing and withholding of life support should be more frequent, and so we are pleased to acknowledge the high indices observed in the study by Epker and colleagues.

Family members of ICU patients are at higher risk of anxiety, depression, and PTSR [2,6]. But we must point out that family members frequently surmise a wrong prognosis regarding the patient [7] and that satisfaction with the intensive care treatment is related to doctors’ behavior in the sharing of information and decision making [8], factors that may contribute to PTSR [2]. As such, we believe that there is room for improvement in the shared decision process and that the clinical team must help surrogates to better understand the medical issues [5].

Finally, given the willingness of staff and families to participate in the end-of-life process disclosed in our study, it is premature to assume that only the treating physician and colleagues should make such a decision.
and then make such a decision clear and acceptable. Probably only a very difficult-to-design randomized study could properly answer such a question.

Abbreviations
ICU, intensive care unit; PTSR, post-traumatic stress reaction.

Competing interests
The authors declare that they have no competing interests.

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