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Manuscript Type: Original Article, Basic Study

Response to Reviewer 1:

Thank you for your kind review. To address your question about how paediatric ICU should transfer these observations to the real world, we added this sentence to our concluding paragraph: “In our health system, we now match syringe size to critical low flow pediatric infusions by using the smallest syringe capable of providing 12 hours of infusion, or one nursing shift.” We hope this is responsive to your question but would also be happy to respond to more specific guidance.

Response to Key Points of Revising Manuscript:

We appreciate the opportunity to revise our manuscript according to your recommendations. We have made revisions in blue font except in References, where minor changes in formatting and updated weblinks were not so highlighted.

1. Scientific: we appreciate and have addressed peer reviewer comments.
2. Language: no revisions.
3. Figures: we have provided original files and revised the figures into a PowerPoint file. The most noticeable difference is the shape of the arrows in Figure 4. No substantive changes were made.
4. Tables: none.
5. References: Thank you for the link to the CrossRef tool. We added PMID and DOI information to reference 11. References 2,3,6,7,16, and 21 do not have associated PMID or DOI information. Web links for these references have been updated. All authors are now listed. Where applicable, the first page of papers is now listed instead of page range.
6. Article highlights: please see the new Article Highlights section added after Discussion.
7. Ethical documents: no revisions.
8. Grant approval document: verification provided by the grant PI, please see letter.

Response to Science Editor:

1. Scientific quality: we appreciate your review.
2. Language evaluation: no revisions.
3. Academic norms and rules: no revisions.
4. Supplementary comments: no revisions
5. Issues raised: We have added an Author Contributions section to the Title page. Verification of grant support was provided in a letter by the grant PI. Original pictures have been provided in a new Figures PowerPoint file that can be reprocessed by the editor. An Article highlights sections was added after Discussion.
6. Re-review: not required.
7. Recommendation: we appreciate your conditional acceptance.