

Université de Lille

## CONCENTRATION ACCURACY ASSESSMENT OF KETAMINE, REMIFENTANIL AND SUFENTANIL SYRINGES PREPARED IN THE PAEDIATRIC SURGERY UNIT





N01-Anesthetics

**PP-022** 

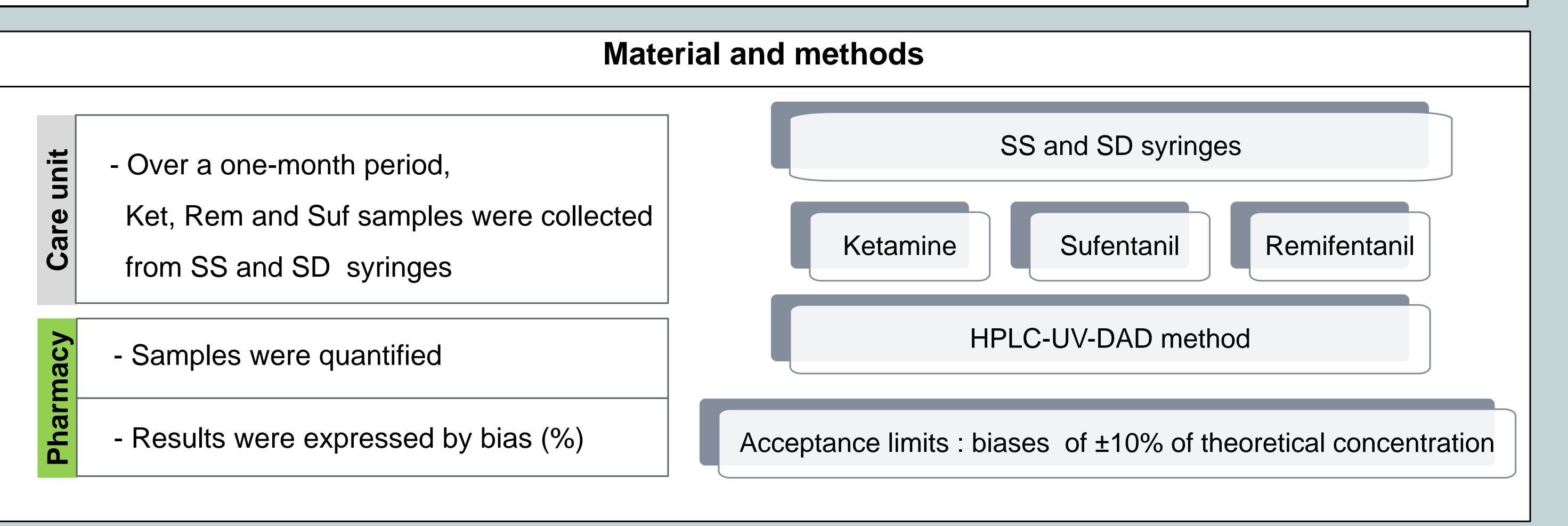
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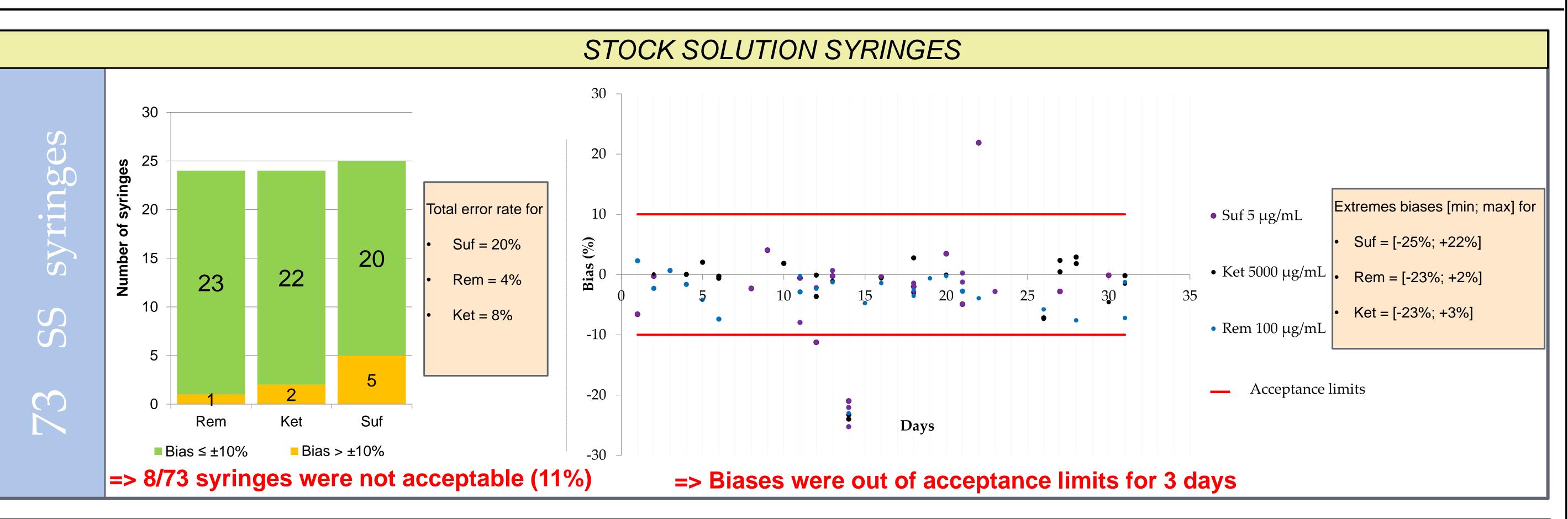


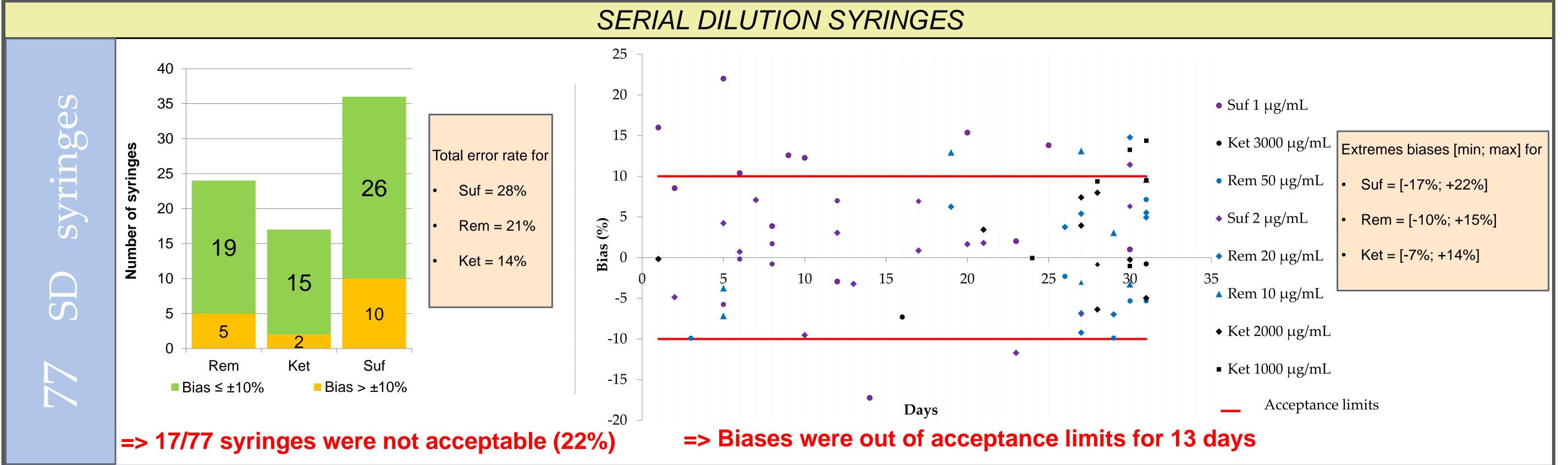


In the pediatric surgery unit, low doses of IV analgesic and anaesthetic drug are daily used for anesthesia. Thus, stock solution (SS) syringes are prepared each morning in post anesthesia care units, resulting from a 10-fold dilution of commercial products. SS syringes are then extemporaneously diluted all day long by a factor of 2, 2.5, 5 and 10 to obtain serial dilution (SD) syringes administered in the operating ward.

## Purpose In the frame of the assessment of professional practices, concentrations of ketamine (Ket), remifentanil (Rem) and sufentanil (Suf) were quantified in prepared syringes in order to evaluate the preparation accuracy of the anesthetist staff







In total, 150 samples were collected on 31 days and biases were out of acceptance limits for 15 days.

## Conclusion

22% syringes administered to children were out of acceptance limits. In order to reduce the occurrence of preparation error in the ward, a preparation procedure has to be defined and its impact will be further assessed.

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