

OPTIMIZATION OF THE STERILE COMPOUNDING PREPARATION : EXAMPLE OF A FILLING COMPOUNDER AND ITS QUALIFICATION



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Introduction

The pharmacy prepare and dispense to the pediatric wards syringes composed of water- and fat-soluble vitamins.

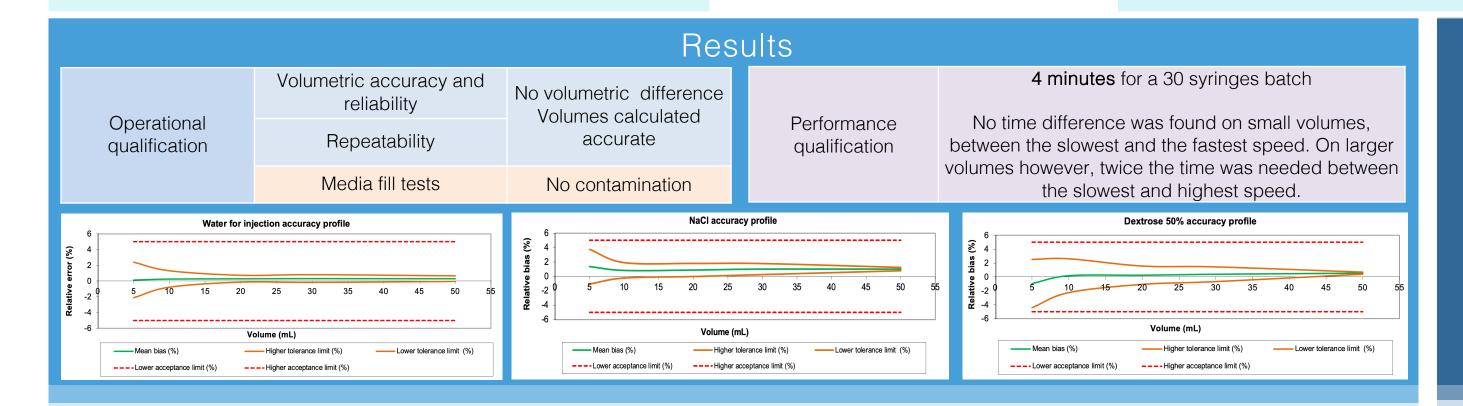
- ⇒ 60 units per batch weekly
- ⇒ Bulk solution manually prepared
- ⇒ Filled into syringes with the Repeater® (Baxter) peristaltic pump Several issues:
- Increased musculoskeletal disorders risks
- Time consuming work

An improvement of productivity and work environment is required

⇒ A new compounder device was purchased to prepare the bulk solution and to fill in the syringes : SLB Mibmix® (Hemedis/SLB)



Material and method Installation qualification Manufacturer Volumetric accuracy and 3 filling speeds, 5 volumes, reliability 5 times each, on Water for injection, Saline solution, Repeatability D50%, Clinoleic ® Operational qualification Visual control of microbial growth every 24h for two Media fill tests weeks: the first week at 20-25°C, the other week at 30-35°C Performance Real life batch qualification



Conclusion

SLB Mibmix® C1 seems to be a good option for our current parenteral nutrition activity. It permits to be more efficient and is less traumatic. This device allows the fully automatization of the process.