Hôpital Flow conservation test of Folfusor SV 2ml/h diffusers: towards an G=RP Saint-Louis AP-HP 2, 3, 4 octobre 2024

extension of expiration?

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The anticancer preparation unit of our university hospital produces hospital preparation batches (PH) of 2-day diffusers of 5-fluorouracil (5FU) at 4 g, 4.5 g and 5 g using a pump distribution. Their expiration date is set at 14 days after a study in 2015 of flow conservation on Homepump [®] diffusers. A market change was made in favor of Folfusor SV 2ml/h Baxter[®] diffusers in which physicochemical stability was demonstrated by the laboratory over a period of 42 days (D).

The objective is to evaluate the conservation of the flow rate of Folfusor SV 2ml/h diffusers over a storage period of 28 J in order to extend the expiration of our PH.

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Standard ISO 28620:2020 : SV2 flow accuracy of +/-15% i.e [1.7 -2.3 ml/h] Average flow test on n = 30 diffusers Semi-automated filling with 103 ml of 0.9% NaCl Unclamping at D0, D14, D15, D16, D17, D21, D22, D23, D24 and D28

• Average flow test on n = 3 diffuseurs from our PH batches (Two 5FU 5 g diffusers and one 4 g diffuser) → Unclamping at D26, D28 et D42

- Storage at room temperature until unclamping
- After unclamping, connected to an infusion bag and placed in the oven at 36.7°C
- Weighing at H0 H3 H7 H24 H32 H48 H50 H53

Flow rate = $\frac{Infusion \ bag \ weight \ ou \ \Delta \ diffusers}{diffusers}$ elapsed time

CONCLUSION

Conservation of an average flow rate at H48 compliant up to 28 days after their preparation. Flow rate variations (<10%) may be due to NaCl according to Baxter[®] data.

Extension of the unclamping deadline to 28 days for an expiry of 30 days.

RESULTATS

For n=30 SV2: all of the NaCl was diffused at H48, average flow rate = 2.08 +/- 0.07 ml/h For n=5 diffusers: significant occasional variations in flow rate with a return to the norm at the other analysis times.



For n = 3 5FU diffusers

- Average flow rate over 48 hours on D26 and D28 respectively of 2.05 +/- 0.07 ml/h and 2.0 +/-0.08 ml/h, which is within the norms.
- On D42 the broadcasters didn't broadcast.

