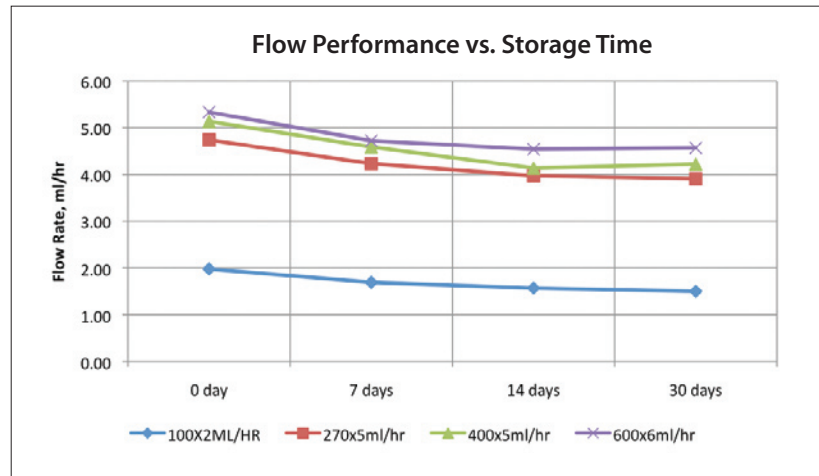


Effect of Storage Times on Flow Rate of Pre-Filled ON-Q® Elastomeric Pumps

The ON-Q elastomeric infusion pump delivers medication at a flow rate that is determined by the pressure in the elastomeric reservoir, the flow restriction in the infusion circuit, and the viscosity of the fluid. Accuracy is specified at ± 15 to $\pm 20\%$ from nominal, based on the model of the pump. When a filled pump is stored beyond 8 hours before usage, the pressure in the reservoir will decrease due to stretch of the elastomeric membranes. This may result in a reduction in flow rate below the nominal rate.

Testing was conducted to estimate the impact of pre-filling and storing of the ON-Q pumps on flow rate. Based on the results of the testing, the following graph shows the results when pumps were stored at room temperature.



Clinicians should consider these approximate changes in flow rate to determine appropriate prescription for patients.

Note: there are many other factors which may affect flow rates – refer to the DFU for additional information.

This information is reflecting changes to function of the pump only. Microbial risks related to prolonged storage must be evaluated and validated by each pharmacy following guidelines from USP. In addition, drug stability must be evaluated for the duration of storage.