

## Developmental complications can occur in neonatal patients exposed to high levels of DEHP.

What is it? DEHP is a plasticizer used to soften naturally stiff PVC.

Where is it? DEHP typically accounts for 20–40% of the material in a PVC

medical device, but can be as high as 80% for PVC devices used

in applications where flexibility is required.

Why is it a problem? DEHP is not chemically bound to the PVC polymer and can

leach out of the device, potentially causing adverse effects on

the developing male reproductive system.

## FDA Public Health Notification:

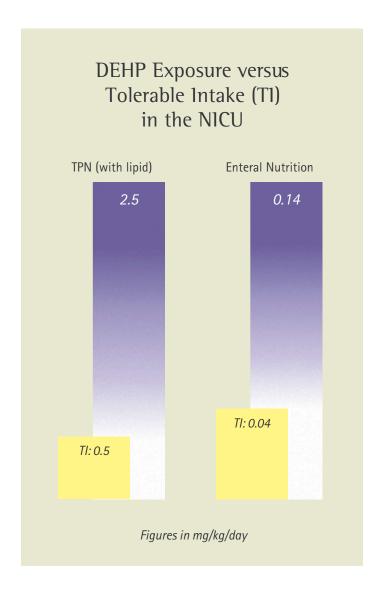
"...precautions should be taken to limit the exposure of the developing male to DEHP."

"...you should not avoid the procedures...

devices that do not contain DEHP can be substituted."

"We recommend considering such alternatives when these high-risk procedures are to be performed on male neonates."

Source: FDA Public Health Notification: PVC Devices Containing the Plasticizer DEHP, Dept of Health and Human Services, Rockville MD, July 12, 2002. Notification is available at www.fda.gov/cdrh/safety/dehp.pdf



# Using DEHP-free, non-PVC alternatives such as Silicone and Tecoflex® polyurethane offers many advantages.



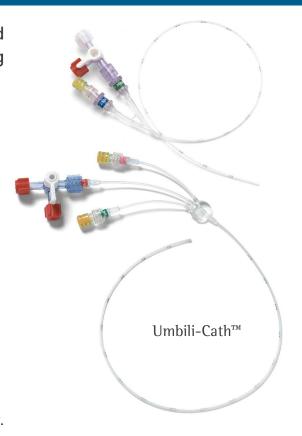
Silicone and Tecoflex polyurethane are naturally soft and flexible without plasticizers, eliminating the hardening that is characteristic of PVC catheters.

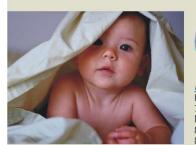
## **Enteral Usage**

- Silicone allows for longer indwell times than PVC, limiting multiple insertions, irritation, possible infection and the development of hyperactive gag reflex.
- Softness of silicone is better tolerated by neonatal patients, potentially contributing to improved sleep cycles.

## Parenteral Usage

- Silicone is highly biocompatible and nonirritating to vascular tissue, while Tecoflex polyurethane is much more tissue-friendly than PVC and other polyurethanes.
- Silicone and Tecoflex polyurethane catheters are non-supportive to bacterial growth and resist encrustation, potentially reducing the incidence of sepsis and maintaining line patency.







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