NRFit®

Enhancing Patient Safety

New global design standards
for neuraxial connectors

GEDSA
ADVANCING PATIENT SAFETY

Reducing the Risk of Tubing Misconnections

In an effort to improve patient safety, medical device tubing connectors are changing to meet international design standards. The universal design of the current Luer connector has allowed for the possibility of connections between devices that are not intended to connect. All medical devices that connect to the neuraxial route will eventually use the 80369-6 connector commonly referred to as NRFit.

In preparation to meet ISO 80369-6 standards, devices for wound infiltration, anaesthesia delivery, and other regional anaesthesia procedures, or to monitor or remove cerebro-spinal fluid for therapeutic or diagnostic purposes will change to the new NRFit connector.

Because the 80369-6 NRFit connector will not connect to standard Luer equipment, current equipment used with neuraxial medical devices, including customized packs, should be reviewed to ensure necessary devices will have the new connector design. A small number of low-risk specialty devices may continue to use Luer in the short term.

Neuraxial Application Sites

Sites for the neuraxial application include the spine, intrathecal or subarachnoid space, ventricles of the brain and epi-, extra-, or peri-dural space. For the purpose of this standard, local anaesthesia injected hypodermically is not considered a neuraxial application.

Affected Neuraxial Devices

All medical devices which connect to the neuraxial route will eventually use the NRFit connector. A small number of low-risk specialty devices may continue to use Leur in the short term

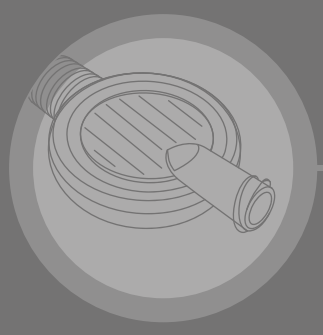
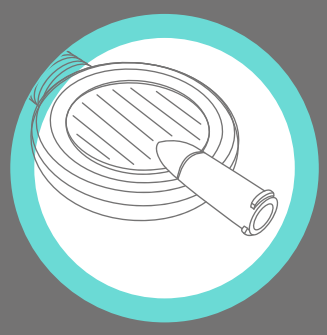
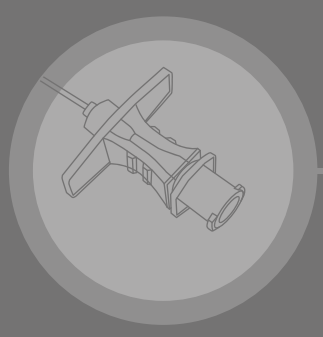
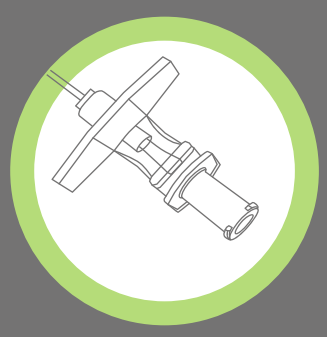
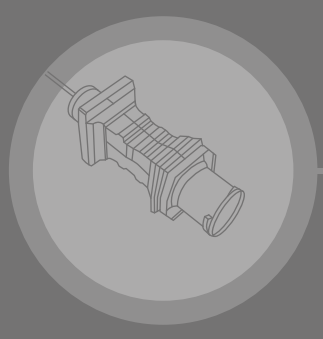
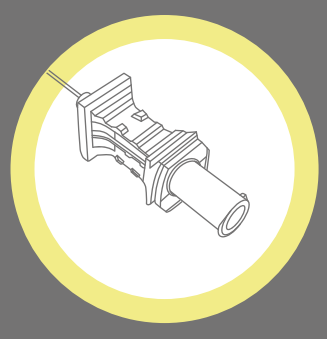
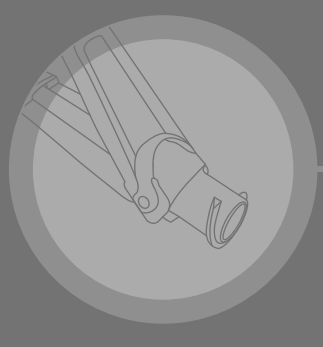
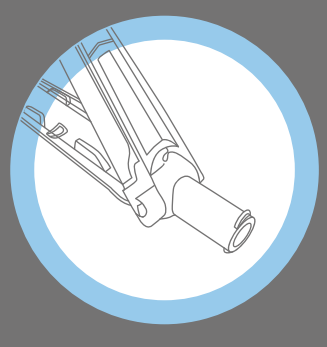
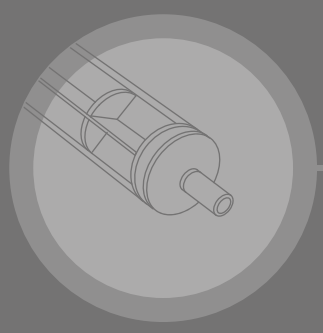
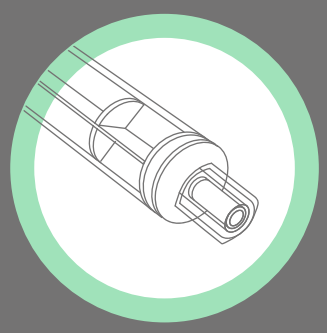
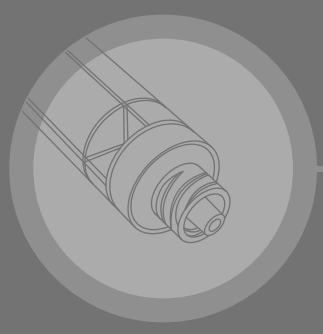
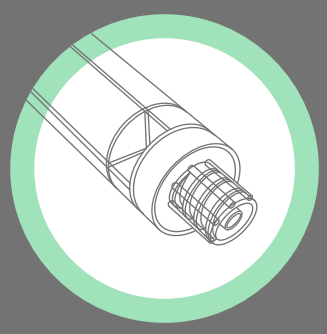
Patient Access	Administration
• Epidural Needle • Spinal Needles • Epidural, Spinal, peripheral nerve block and continuous wound infusion catheter connectors	• Loss of Resistance Syringes • Syringes used to administer neuraxial medication • Neuraxial syringe caps • PCA syringe • Pump Administration Set/ Infusion Tubing (including elastomeric pumps) • Extension Line Tubing • Bacterial Flat Filter • Draw up/Filter Straw • 2+3-way taps (stopcock) • Manometers

The new design standard impacts multiple neuraxial systems

THE DIFFERENCE

Neuraxial application procedures will include continuous infusion of local anesthetic agents. The connector is designed to reduce the risk of connection between devices utilizing ISO 80369-6 connectors and devices used to access other routes such as IV and enteral applications.

The new ISO 80369-6 connector looks like a Luer connector, but is about 20% smaller and has a unique design to reduce the risk of cross connection. Color is not included in the standard however many manufacturers are choosing yellow as a color to indicate NRFit.

CURRENT LUER	NRFit® / ISO 80369-6
 BACTERIAL FLAT FILTER	 BACTERIAL FLAT FILTER
 EPIDURAL NEEDLE	 EPIDURAL NEEDLE
 SPINAL NEEDLE	 SPINAL NEEDLE
 CATHETER CONNECTOR	 CATHETER CONNECTOR
 LUER SLIP SYRINGE	 SLIP SYRINGE
 LUER-LOCK SYRINGE	 LOCK TIP SYRINGE

© 2025 GEDSA

Stay Connected with GEDSA

The Global Engineered Device Supplier Association (GEDSA®) is a 501(c)(6) non-profit trade association with the mission of advancing patient safety through engineered device solutions and initiatives that are coordinated among stakeholders spanning across the healthcare spectrum worldwide.

Supporting Organizations:

AAHOMECARE American Association for Homecare
AAMI
AANA American Association of NURSE ANESTHESIOLOGY
AHRMM Advancing Health Care through Supply Chain Excellence
AHVAP Association of Healthcare Value Analysis Professionals
ashp
ASHRM American Society for Health Care Risk Management
Dietitians in Nutrition Support a dietetic practice group of the Academy of Nutrition and Dietetics
ECRI
aspen Leading the Science and Practice of Clinical Nutrition
AVA
BRASPEN SBNPE
The European Society of Regional Anaesthesia & Pain Therapy
FELANPE Federación Latino Americana de Terapia Nutricional, Nutrición Clínica y Metabolismo
EUROPHARMAT
FEEDING TUBE AWARENESS FOUNDATION
HEALTHTRUST
ISMP Institute for Safe Medication Practices An ECRI Affiliate
The Joint Commission
Medical Nutrition International Industry
Medication Safety Collaborative
日本臨床栄養代謝学会
morrison healthcare
MSOS Medication Safety Officers Society
nutritionDay IN THE U.S.
PREMIER
The Joley Foundation Help along the way
NPSF National Patient Safety Foundation®
PATIENT SAFETY MOVEMENT First, Do No Harm. ZERO by 2030
vizient.

GEDSA NRFit Members:

B BRAUN SHARING EXPERTISE
BD
ELEVARIS medical devices
FlatMedical Safe care for All
icu medical human connections
MEDOVATE Developing Innovation
MOOG
NIPRO
PAJUNK Real People. Real Care.
Rocketmedical
Sol M Building a Healthier Tomorrow
VYGON

Sign Up to Stay Connected

To sign up for email updates with the latest information and tools to help you with this transition, visit

www.StayConnected.org

© 2025 GEDSA