



DEVELOPMENTALLY FRIENDLY

Specialized Neonatal and Pediatric Care



UTAH MEDICAL PRODUCTS

FEMCARE



UMBILI-CATH™

Complete Umbilical Catheter Family

DEHP
Free

Vascular access to the neonate via the umbilicus provides an ideal means for pressure monitoring and medication or volume expander administration. Umbili-Cath is available in outside diameters down to 2.8 Fr, providing access to the smallest babies. Dual and triple-lumen Umbili-Cath are available to provide a means of infusing incompatible meds or allowing for continuous monitoring during therapies.

Gesco® Umbili-Cath is specially designed for ease of insertion, patient safety and comfort. Umbili-Cath is available in both Silicone and Tecoflex® polyurethane materials. Silicone is known as the most biocompatible and gentle material for vascular access. Tecoflex emulates silicone after warming in vivo, and allows for triple-lumen patency support in a 5 Fr UVC. Both materials are PVC-free.

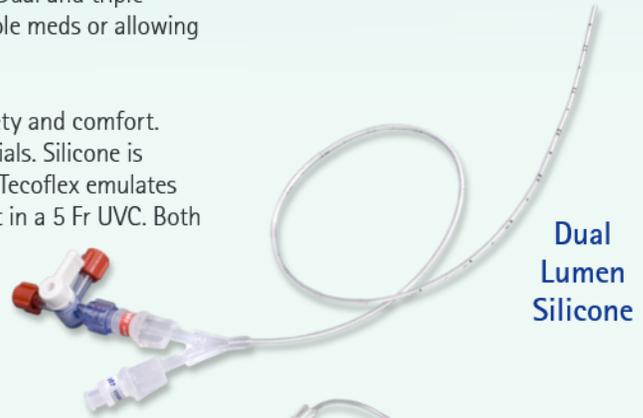
- Soft rounded tips to reduce perforation risks during placement.
- Soft rounded end holes to facilitate better fluid clearing.
- Clear depth markings every 1cm for more accurate placement.
- "Zero dead space" luer locking hub.
- Barium sulfate-loaded catheter provides radiopacity.

Umbili-Cath™ Configurations

Order Number	Catheter Size	Lumens	Material	Catheter Body Length	Packaging Quantity
4182805	2.8 Fr	Single (22 ga)	Tecoflex	34cm	10 / box
4282805	2.8 Fr	Dual (22/25 ga)	Tecoflex	37cm	10 / box
4173505	3.5 Fr	Single (21 ga)	Silicone	34cm	10 / box
4273505	3.5 Fr	Dual (20/23 ga)	Silicone	34cm	5 / box
4183505	3.5 Fr	Single (21 ga)	Tecoflex	34cm	10 / box
4283505	3.5 Fr	Dual (20/23 ga)	Tecoflex	37cm	10 / box
4175005	5.0 Fr	Single (18 ga)	Silicone	34cm	10 / box
4275005	5.0 Fr	Dual (19/19 ga)	Silicone	34cm	5 / box
4185005	5.0 Fr	Single (18 ga)	Tecoflex	34cm	10 / box
4285005	5.0 Fr	Dual (19/19 ga)	Tecoflex	37cm	10 / box
4385005	5.0 Fr	Triple (18/20/20 ga)	Tecoflex	37cm	10 / box
4186505	6.5 Fr	Single (15 ga)	Tecoflex	34cm	10 / box
4178005	8.0 Fr	Single (15 ga)	Silicone	34cm	10 / box



Single Lumen Tecoflex



Dual Lumen Silicone



Triple Lumen Tecoflex

Utah Medical Products, Inc. (UTMD) supports Developmental Care.

Unlike adults, neonatal and pediatric patients may not be able to communicate with their caregivers when they are uncomfortable or distressed. Their fragile and underdeveloped vasculature, skin and respiratory systems necessitate specialized care.

Developmental Care is a patient-focused treatment approach that focuses on the special needs of premature babies. Recent studies have shown that patients treated with this approach show improved outcomes in all areas - from shorter hospital stays through lower frequency of complications. *Developmental Care* minimizes the amount of stress, discomfort and disruption to which babies are exposed.

Gesco® developmentally friendly products should be integral to any hospital's *Developmental Care* program. Gesco began as a company

specifically focused on the unique needs of the neonatal patient. As the first to introduce naturally soft, biocompatible silicone to its catheters, Gesco's tradition of innovation and patient-focused design has grown into over 30 years of dedicated experience. Today, carefully selected materials promote patient comfort and improved outcomes. Double and triple lumen catheters allow greater efficiency and less patient trauma. Enteral only feeding catheters and accessories reduce complications involving misconnections and disconnections. Closed and pre-assembled complete kits help avoid risk of infection and allow quick and easy administration of treatments, enabling nurse practitioners more time to "care for their babies." Gesco's developmentally friendly products support clinicians who provide a standard of care that puts patients first.

UTMD provides only Latex-Free devices, and avoids PVC materials with the potentially harmful additive DEHP.

DEHP
Free

PICC-NATE®

Peripherally Inserted Central Catheter



PICC-Nate Tray includes:

- 1 Peel-Away Introducer
- 1 Transparent Dressing
- 2 Tape Measure (1/8 in. x 15 in.)
- 1 Povidone-Iodine Swabsticks (3 per pack)
- 8 Gauze Pads 2 in. x 2 in.
- 8 Gauze Pads 4 in. x 4 in.
- 1 Fenestrated Drape with Tape
- 1 Poly Lined Drapes
- 1 Micro Forceps (Half Curved Fine Point)
- 1 Scissors (4.5 in.)
- 1 Syringe with 18 Gauge Needle
- 1 Tourniquet
- 3 Tape Strips
- 1 Instructions for Use
- 2 Needle Retention Device



Peripherally inserted central venous catheters (PICCs) are widely used for patients requiring long-term IV therapy and infusion. PICC lines are clinically preferable to a UVC because they have low infection rates, are less invasive and inexpensive compared to catheters placed surgically through the chest for delivery directly into the heart, and do not have the high vessel wall irritation problem (phlebitis) that is associated with delivery through peripheral IVs. Because of the need for longer term placement, PICCs made of silicone are preferred by those who are skilled and patient enough to place them.

PICC-Nate is specially designed to avoid irritating baby's delicate tissues:

- Slender, low-profile hub reduces baby's discomfort and tissue excoriation.
- 'Suture wing' design is profiled to lay flat for gentle hub securement while minimizing skin irritation and allowing easy site maintenance.
- Reinforced hub reduces catheter breakage.
- Extended hub option provides convenient clinician access further from the insertion site, lowering the risk of infection and skin irritation while eliminating the need for extension sets.
- Catheter positioning accomplished with depth markings at every centimeter.
- Barium sulfate-loaded catheter provides radiopacity.

PICC-Nate is available with a peel-away introducer. Introducers are also available separately.

- "Quick Flashback" cannula indicates immediate verification of vessel penetration.
- Double-beveled needle tips allow precise vessel entry.
- Funneled entry promotes fast PICC introduction.



PICC-Nate® Configurations

23cm Catheter Length - 1.1Fr

35cm Catheter Length - 1.9Fr and 3.0Fr

all catheter configurations packaged 10 / box

SILICONE Standard Hub	1.9Fr	3.0Fr	
Catheter Only	P-2S		
Catheter and Introducer	PB-2PS	PB-3PS	
Complete Tray	PC-2PS	PC-3PS	
SILICONE Extended Hub	1.9Fr	3.0Fr	
Catheter Only	P-2LS		
Catheter and Introducer	PB-2LPS	PB-3LPS	
Complete Tray	PC-2LPS	PC-3LPS	
TECOFLEX Standard Hub	1.1Fr	1.9Fr	3.0Fr
Catheter Only		P-2P	
Catheter and Introducer	PB-1PP	PB-2PP	PB-3PP
Complete Tray		PC-2PP	PC-3PP

PICC-Nate Accessories

- 1.1Fr Introducer (26 Ga) 5 / box
- 1.9Fr Introducer (22 Ga) 5 / box
- 3.0Fr Introducer (19 Ga) 5 / box
- 1.9Fr Repair Kit 10 / box
- 3.0Fr Repair Kit 10 / box

- PEEL1
- PEEL2
- PEEL3
- P-R2
- P-R3

Developmentally Friendly Materials

Silicone Catheters:

- Ultimate biocompatible material – no plasticizers.
- Resiliently soft and unlike all other materials.
- Non-irritating to vessel walls to avoid phlebitis.
- Non-reactive to body tissues and body fluids, providing long term device stability.
- Non-supportive of bacterial growth.
- Non-thrombogenic – resists encrustation.
- Non-adherent to tissues – allows easy removal and avoids necrosis of injured cells.

Tecoflex® Catheters:

- Advanced medical formulation of polyurethane.
- Thermosensitive – softens at body temperature such that physical characteristics emulate silicone after placement.
- Slightly stiffer than silicone – easier to insert.
- Allows crisp arterial waveform.
- Higher tensile strength and less catheter elongation to provide more resistance to breaking if catheter is nicked.
- Supports triple-lumen patency in a small diameter catheter.

Tecoflex® is a registered trademark of Lubrizol Advanced Materials, Inc.

DELTRAN[®] PLUS

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Free

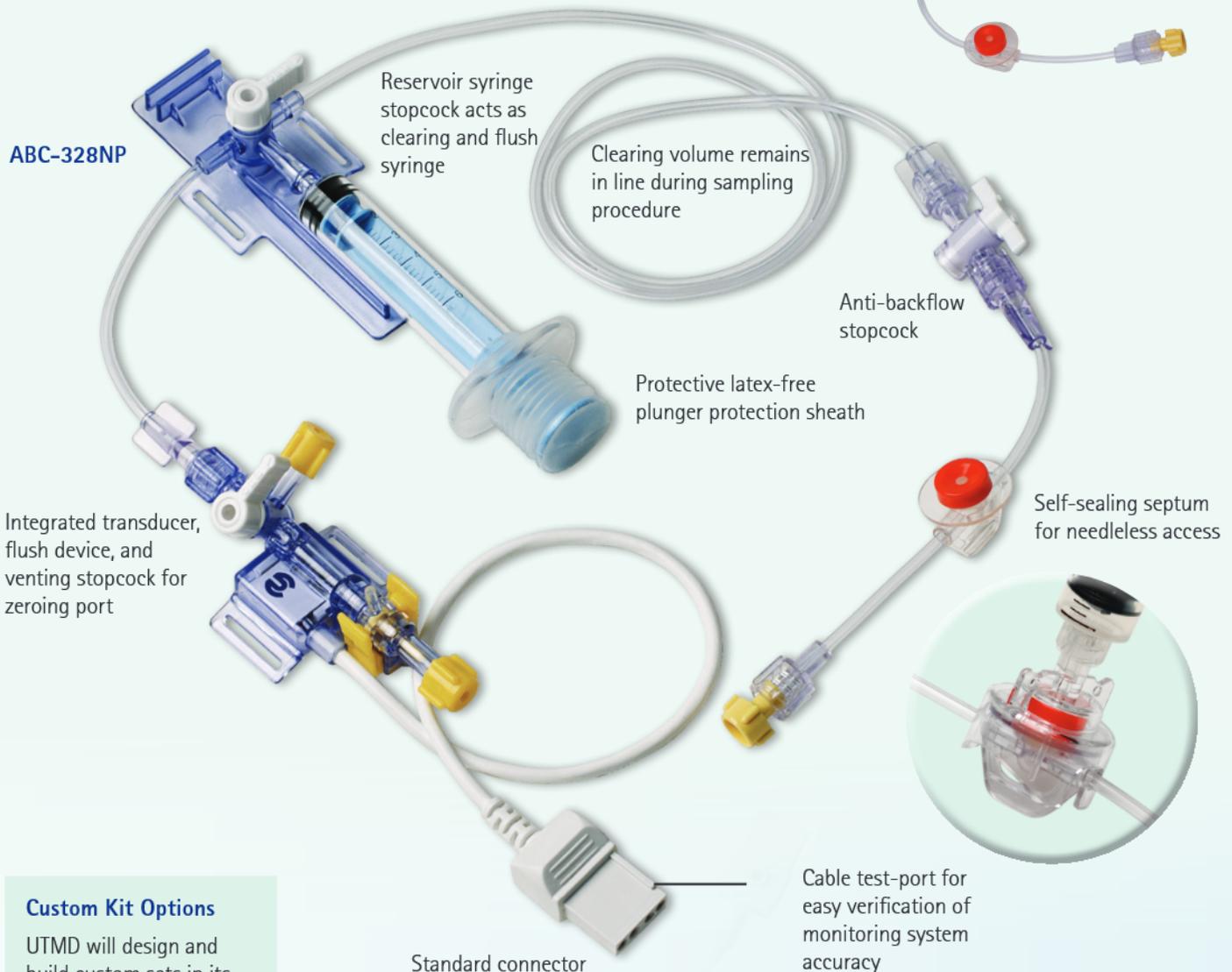
Closed Needleless Arterial Blood Collection System

UTMD applied its industry-accepted disposable blood pressure monitoring technology to the special needs of the NICU and PICU. UTMD's Deltran disposable pressure transducer expertise is integrated into a closed blood collection system that is designed specifically to conserve blood and protect the neonatal and pediatric patient from blood infection, the most common nosocomial infection in the NICU and PICU¹.

- Closed sampling system with preassembled, bonded connections reduces risk of sepsis.
- Needleless sampling system to avoid potential exposure and cross-contamination.
- Accurate blood pressure measurements with components that simplify setup.
- Clear, saline-free blood sample for accurate lab analysis



ABC-050NP



ABC-328NP

Reservoir syringe stopcock acts as clearing and flush syringe

Clearing volume remains in line during sampling procedure

Anti-backflow stopcock

Protective latex-free plunger protection sheath

Integrated transducer, flush device, and venting stopcock for zeroing port

Self-sealing septum for needleless access

Cable test-port for easy verification of monitoring system accuracy

Standard connector fits into reusable cables available for many monitors

Back View

Custom Kit Options

UTMD will design and build custom sets in its Utah-based plant to fit the special needs of your NICU, PICU, and other critical care departments.

¹Richards MJ, Edwards JR, Culver DH, Gaynes RP, National Nosocomial Infections Surveillance System. Nosocomial infections in pediatric intensive care units in the United States. *Pediatrics*. 1999; 103(4)

CATHETERIZATION TRAY

General Procedure Tray



These instruments and supplies have been selected to address the small size of the neonatal patient. All of the delicate, disposable instruments in the tray are made of high quality stainless steel, with a quality and feel comparable to more expensive reusable instruments.

Applications include:

- PICC placement.
- Umbilical artery or vessel catheterization.
- Catheterization and other procedures that demand precision instruments and components appropriately sized for smaller patients.

The Catheterization Tray includes safety components that reduce the risk of needlestick injury:

- Safety scalpel with retractable blade for protection from sharps.
- Point-Lok® sharps disposal system for safe disposal of needles and suture.

Catheterization Tray includes:

1 Adson Forceps, Fine Point	1 Measuring Tape
1 Iris Forceps, 4" Half Curve	1 Dilator
1 Micro Forceps, Half Curve Fine Point	1 Needle, 18 Gauge
1 Needle Holder, 5"	1 Needle, 25 Gauge
1 Scalpel, #11 Blade	1 Povidone-Iodine Swabsticks, 3 pk
2 Hemostats, Straight Mosquito	1 CSR Wrap, 30" x 30"
2 Hemostats, Curved Mosquito	2 Poly-lined Drapes, 24" x 24"
1 Sharp/Blunt Scissor	1 Fenestrated Drape with Tape
1 3-Way Stopcock	1 Umbilical Tie, 15"
1 Syringe, 1cc	6 Gauze Pads, 4" x 4"
1 Syringe, 6cc	6 Gauze Pads, 2" x 2"
2 Syringes, 3cc	1 Suture, 4-0 Silk
1 Syringe Cap	3 Point-Lok® Needle Retainers

Also Available Separately

PICC REPAIR KIT

- Provides a convenient method to avoid the trauma of and time required for reinsertion of a new PICC

ULTRA-MICRO FORCEPS

- Included with Catheterization Tray for delicate catheterization of the neonatal patient
- Individually packaged for catheter adjustments or when full tray is not needed.

STERILE 3-WAY STOPCOCK

- High quality, easy-turn, sterile 3-way stopcocks are available individually packaged.
- For arterial lines, consider Deltran Plus, a closed needleless arterial blood collection and pressure monitoring system.

Ordering Information

DELTRAN PLUS

ABC-328NP	Deltran Plus Kit, 30cc Transducer, Single Line	10 / box
ABC-350NP	Deltran Plus Neo/Ped Kit w/30cc Transducer	10 / box
ABC-050NP	Neo/Ped Arterial Blood Collection Kit (no transducer)	10 / box
DPT-300	Stand-alone Deltran Plus, 30cc Transducer	25 / box
DPT-324	Deltran Plus, 30cc transducer, Single Line	25 / box
ABC-100	Blunt Sampling Cannula	100 / box

CATHETERIZATION TRAY AND ACCESSORIES

4070007	Catheterization Tray	10 / box
4070017	Ultra-Micro Forceps	30 / box
400-351	Three-Way Stopcock (sterile)	50 / box

NUTRI-CATH®

30-Day Enteral Feeding Catheters

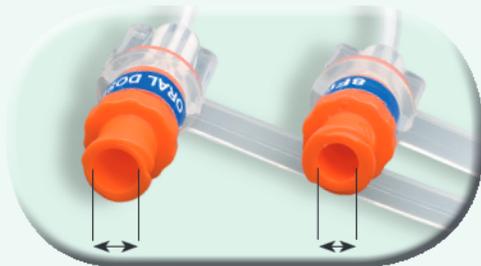
DEHP
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The Nutri-Cath's gentle, biocompatible silicone catheter is a proven solution for enteral feedings. Nutri-Cath resists irritation and prevents hyperactive gag reflex during nasogastric, orogastric or nasojejunal placement.

- Non-wettable materials will not perforate, clog or adhere to lining of stomach.
- Less interruption of important sleep cycles with softer, more comfortable materials.
- Available French sizes accommodate the full range of babies, even 500g preemies.
- Barium sulfate loaded catheter is visible under x-ray for easy verification of tip placement.
- Orange hub identifies enteral-only connection to prevent accidental medication infusion.

Tecoflex® Polyurethane

In addition to the widely used silicone Nutri-Cath, UTMD designed a thermosensitive hi-flow Tecoflex® polyurethane catheter structurally designed with a larger inner diameter to provide approximately 2-3 times greater flow than its silicone counterpart with the same French size.



Oral Dose Hub

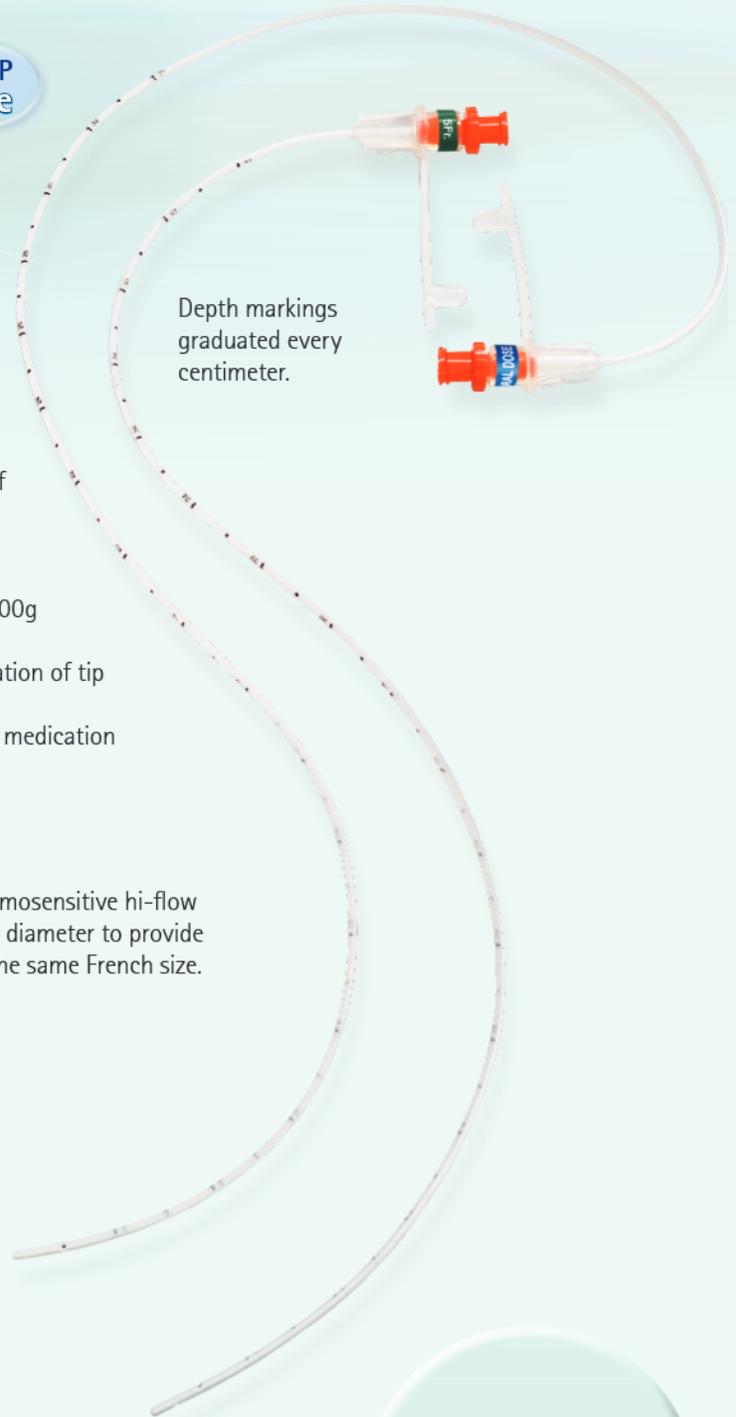
Standard Hub

Choice of locking oral dose connector for added enteral safety. Standard luer lock connector also available.

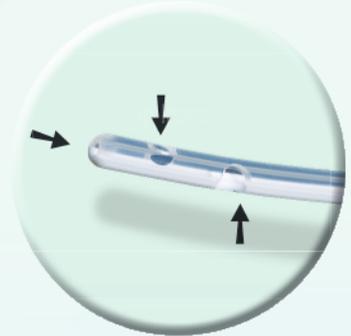
Nutri-Cath® Configurations

all configurations packaged 10 / box

SILICONE Standard Hub	3.5Fr	5.0Fr	6.5Fr	8.0Fr
40cm	4163519	4165019	4166519	4168019
58cm	4163529	4165029	4166529	4168029
93cm	4163539	4165039	4166539	4168039
TECOFLEX Standard Hub	3.5Fr	5.0Fr	6.5Fr	8.5Fr
40cm	4163519P	4165019P	4166519P	4168519P
58cm	4163529P	4165029P	4166529P	4168529P
93cm	4163539P	4165039P	4166539P	4168539P
SILICONE Nutri-Lok® Hub	3.5Fr	5.0Fr	6.5Fr	8.0Fr
40cm	4153517	4155017	4156517	4158017
58cm	4153527	4155027	4156527	4158027
93cm	4153537	4155037	4156537	4158037
TECOFLEX Nutri-Lok® Hub	3.5Fr	5.0Fr	6.5Fr	8.5Fr
40cm	4153517P	4155017P	4156517P	4158517P
58cm	4153527P	4155027P	4156527P	4158527P
93cm	4153537P	4155037P	4156537P	4158537P



Depth markings graduated every centimeter.



All Nutri-Cath catheters have a soft, open-end, port at the rounded tip and offset, opposing, side ports* to provide rapid diffusion of enteral formula with obstruction-free sampling, without clogging.

*Not provided on 3.5 Fr catheters.

DEHP Free

ENFit®

The New Standard in Enteral Feeding Safety

Silicone Nutri-Cath

Tecoflex Nutri-Cath

Nutri-Cath with ENFit is a family of locking enteral feeding-only catheters, extension sets and oral dispensing syringes that:

- Allow you to incorporate the well-established GESCO Nutri-Cath into your ENFit-compliant enteral feeding program.
- Ensure the avoidance of a possible misconnection with devices administering medications
- Ensure a secure connection that minimizes the risk of unwanted disconnections.

Nutri-Cath ENFit syringes' purple plungers are quickly identified as enteral feeding-only devices. The secure locking connection is designed to reduce accidental disconnects and misconnects. Maintaining an inventory of ENFit syringes eliminates the need for a specialized enteral-only feeding pump.

Nutri-Cath® with ENFit Configurations

all configurations packaged 10 / box

SILICONE ENFit Hub	3.5Fr	5.0Fr	6.5Fr	8.0Fr
40cm	4153517E	4155017E	4156517E	4158017E
58cm	4153527E	4155027E	4156527E	4158027E
93cm	4153537E	4155037E	4156537E	4158037E
TECOFLEX ENFit Hub	3.5Fr	5.0Fr	6.5Fr	8.5Fr
40cm	4153517PE	4155017PE	4156517PE	4158517PE
58cm	4153527PE	4155027PE	4156527PE	4158527PE
93cm	4153537PE	4155037PE	4156537PE	4158537PE

ENFit Syringes and Accessories

Monoject™ syringes are easily recognized by existing syringe pumps and are available in 1mL, 3mL, 6mL, 12mL, 35mL, and 60mL volumes. 1mL and 3mL syringes feature an inner lumen for conserving enteral formula.

Sterile ENFit Syringes

41501E	1mL ENFit Syringe, sterile	60 / box
41503E	3mL ENFit Syringe, sterile	80 / box
41506E	6mL ENFit Syringe, sterile	80 / box
41512E	12mL ENFit Syringe, sterile	80 / box
41535E	35mL ENFit Syringe, sterile	40 / box
41560E	60mL ENFit Syringe, sterile	30 / box

ACCESSORIES

415CPE	ENFit Syringe Caps (sterile pack of 5)	200 packs / box
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Nutri-Cath with ENFit Extension Sets

Order Number	Description	Package Quantity
4150017E	60" Locking Extension, Female ENFit to Male ENFit	50 / box
4150027E	60" Locking Extension w/ENFit side port, Female ENFit to Male ENFit	50 / box
4150067E	30" Locking Extension, Female ENFit to Male ENFit	50 / box
415FIT	ENFit Transition Connector, Oral Female to Stepped Adaptor	50 / box

NUTRI-LOK®

Enhanced, Locking Enteral-Only Feeding



With a reported increase¹ in accidental misconnections between enteral feed devices and IV devices, Utah Medical Products, Inc. has augmented its enteral feeding solutions to include locking Nutri-Lok safety devices.

Nutri-Lok enteral only extension sets and syringes:

- Will not mate with a female luer IV connection.
- Ensure a secure connection that will not accidentally slip apart.
- Are compatible via slip fit with other oral dose enteral feeding catheters, but only lock with Nutri-Cath.

Nutri-Lok accessories include:

- Syringe Cap for capping male Nutri-Lok connections.
- Oral Dose Straw to facilitate Nutri-Lok oral dose syringe filling.



With Nutri-Lok, the secure locking connection is designed to ensure no accidental disconnects or misconnects, without the need for an adaptor.

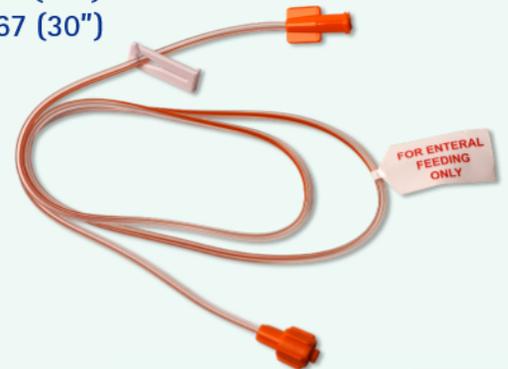


4150027

Extension sets are available with or without medicine port. Gastrointestinal (GI) set with stepped adapter is also available for gastrointestinal feeds; includes side port.

4150017 (60")

4150067 (30")



Nutri-Lok Extensions and Accessories

Order Number	Description	Package Quantity
4150007	Nutri-Lok 60" Locking Enteral Extension Set	50 / box
4150017	Nutri-Lok 60" All Oral Locking Enteral Extension Set	50 / box
4150027	Nutri-Lok 60" All Oral Locking Enteral Extension Set w/ Y-Port	50 / box
4150067	Nutri-Lok 30" All Oral Locking Enteral Extension Set	50 / box
415CAP	Nutri-Lok Oral Dose Syringe Cap (sterile pack of 5)	40 / box
415STR	Nutri-Lok Oral Dose Straw	50 / box

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DISPOSA-HOOD™

Disposable Infant Respiratory Hood

The newborn's surface-area-to-body-weight ratio is much higher than that of an adult, and therefore its metabolism is extremely sensitive to inconsistencies in the thermally controlled and humidified environment. Precisely maintaining a Neutral Thermal Environment (NTE) for critically ill babies means that they can use their energy to develop and heal.



Disposa-Hood is an excellent solution to problems encountered during oxygen delivery and NTE control:

- Accurate FiO₂ levels within Disposa-Hood are easy to maintain. Disposa-Hood's unique "Laminar Flow" design gently guides prescribed concentrations of warmed, humidified, and oxygenated air directly to baby's face while the unique inlet diffuser prevents oxygen from blowing directly on the baby's head, avoiding the risk of apneic episodes. CO₂ flushing is also improved.
- Convenient top port provides the ideal location for accurate monitoring of oxygen concentration and temperature.
- Soft padded neck opening does not require clinician assembly, and is selected to prevent irritation to the baby's sensitive skin.

Disposa-Hood also provides other benefits to baby and NICU medical staff:

- **COMFORT.** Less invasive and constraining than nasal cannulas, Disposa-Hood gives baby and parents more comfort with its completely clear and seamless design that provides an unobstructed and distortion-free view both from the inside and outside.
- **VERSATILITY.** Larger sizes are versatile — Disposa-Hood's opening can be placed around baby's neck or can be used 'over-the-torso'.
- **CONVENIENCE.** Is easily lifted from baby and set aside for quick access to baby's head without affecting the NTE, or can be kept in place over baby, maintaining NTE while administering therapies via baby's torso, arms, and legs.
- **TRANSPORTABILITY.** Ideal for transporting infants between facilities, since the need to track and return reusable hoods is eliminated.
- **DISPOSABILITY.** Disposable hood eliminates the cost of hospital resources required to disinfect used hoods.
- **FUNCTIONALITY.** Reusable, weighted base collar keeps hood in place. Raised base ports allow for easy placement of tubing and cables while hood remains in place.

Disposa-Hood® Configurations

Order Number	Description (baby weight)	Overall Size (L x W x H)	Neck (W x H)	Packaging Quantity
0301	Small (<500g)	7.0" x 7.0" x 5.4"	2.5" x 1.8"	12 / box
0300	Medium (500g - 1500g)	7.0" x 7.0" x 5.4"	3.9" x 2.5"	12 / box
0305	Large (<5000g)	8.0" x 8.3" x 6.9"	5.0" x 3.9"	8 / box
0305W	Large w/ Wide Neck (<5000g)	8.0" x 8.3" x 6.9"	5.0" x 2.9"	8 / box
0313	Extra Large (all - 'over torso')	13.0" x 10.4" x 8.5"	6.3" x 5.0"	6 / box
0302	Reusable Collar for 0300, 0301			2 / box
0308	Reusable Collar for 0305, 0305W			2 / box
0314	Reusable Collar for 0313			2 / box



DIALY-NATE®

Pre-assembled Closed Peritoneal Dialysis Set

4000527

Because critically-ill pediatric patients may not have the blood volume to support hemodialysis, alternate dialysis methods must be employed and must be provided in a timely manner. Peritoneal dialysis is an ideal method to aid with compromised renal function.

The availability of a pre-assembled ready-to-use dialysis kit can satisfy an important, but infrequent need. Because they are pre-assembled, Dially-Nate is safer and more effective than assembling separate tubing and components. Dialysis can begin much sooner since Dially-Nate is easy to set-up and works via gravity.

- In-line bacterial retentive (0.2 micron) filter.
- Choice of an in-line helical infusate warming coil or 600cm of tubing for use in a blood/fluid warmer.
- Graduated 150mL administration burette provides accurate measurement of infusate.
- A finely graduated dialysate meter with overflow bag.
- 3 bag connectors or Baxter® compatible luer connectors for mixing infusate.



Choice of Infusate Bag Connectors

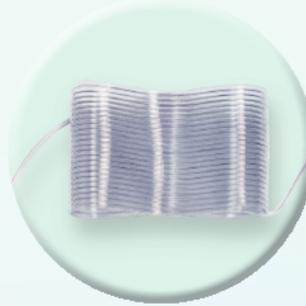


Baxter® compatible luer connectors



Traditional bag spikes

Choice of Warming Coil Configuration



Bonded helical warming coil for convenient warming w/ heating device (e.g., K-pad, heat lamp, etc.)



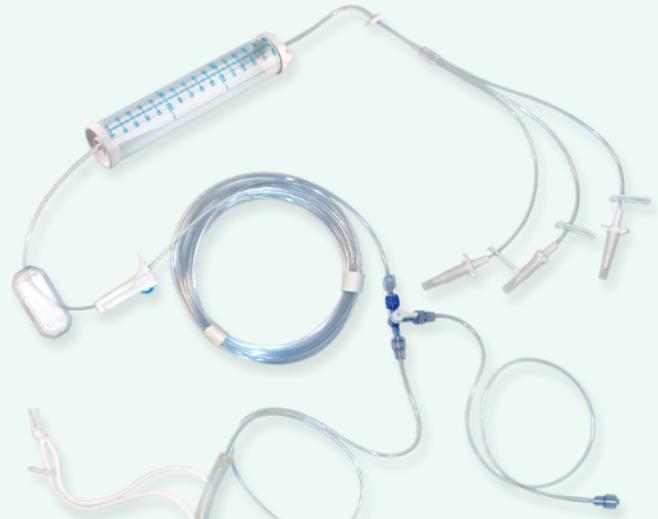
600cm of unbound warming coil tubing provides versatility for use with a variety of fluid warming systems (e.g., Spectratherm, Prismaflo®, Astrotherm®, etc.)

4000547



**Dialy-Nate
Custom Set Options**

Contact UTMD to design and build custom Dialy-Nate sets for your unique peritoneal dialysis needs.



4000517



4000557

Dialy-Nate® Configurations

Order Number	Dialysate Connector	Warming Tubing	Other Features	Packaging Quantity
4000507	3x Bag Spike	Bonded Coil		1 each
4000517	3x Bag Spike	Uncoiled		1 each
4000527	3x Baxter luer	Bonded Coil		1 each
4000537	3x Baxter luer	Uncoiled		1 each
4000547	6x Baxter luer	Uncoiled	Two Dialysate Lines	1 each
4000557	1x Baxter luer	Uncoiled	Low Volume	1 each
4000567	3x Baxter luer	Bonded Coil	4-Way Stopcock	1 each
4000577	none	none	Drainage Bag Only	1 each
4000587	3x Baxter luer	Bonded Coil	with Sampling Stopcock	1 each

HEMO-NATE®

18-Micron Filtration System

DEHP
Free

Blood breaks down when stored. Studies have shown that small volumes of resulting particulate debris ("microaggregates") can be responsible for producing significant changes in pulmonary function, including pneumonia.

The common practice of blood filtration using an 'adult' 150 micron filter does not adequately protect the hypersensitive neonate from lodging of fibrinoprotein particulate material in the pulmonary capillary bed.

Hemo-Nate's 18-micron stainless steel filter media was selected to efficiently filter the non-viable microaggregate blood components, yet allow the viable components through without damage.

Hemo-Nate also provides an ideal method for delivery of small aliquots of blood and blood products to multiple patients from a single unit.

Clinical benefits include:

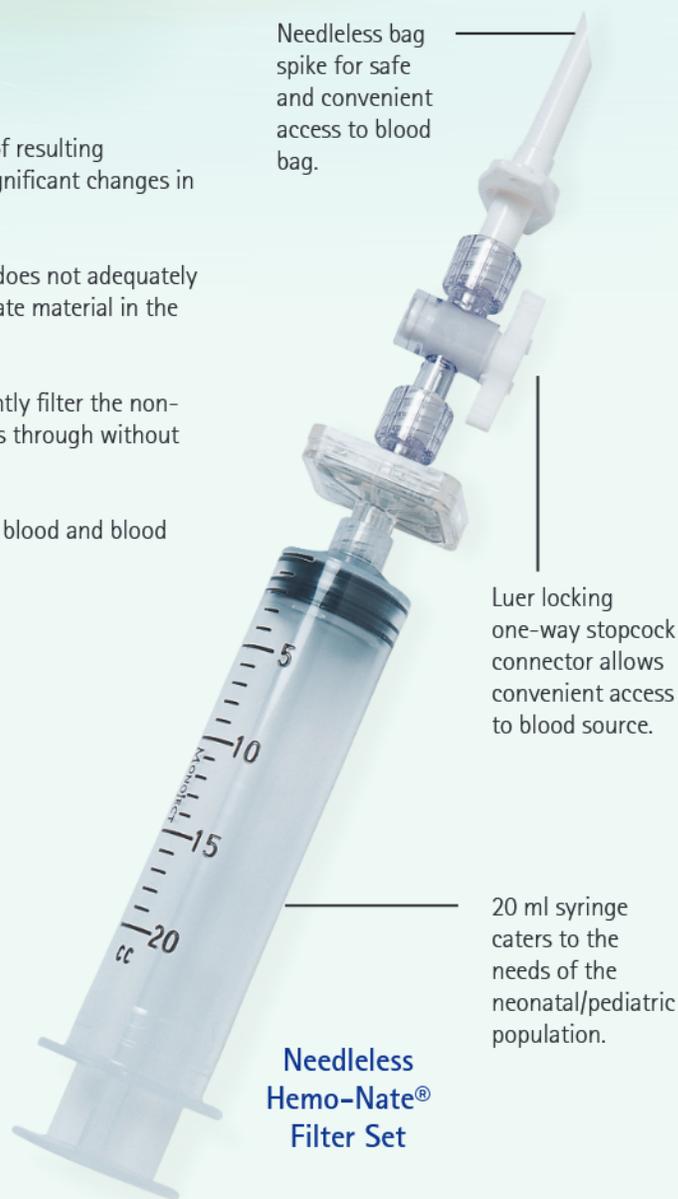
- High microaggregate retention.
- Allows multiple aliquot preparation from a single blood unit.
- Small priming volume (0.7cc).



Stainless Steel Filter Media – The electrostatic properties provide exceptional flow. It is more gentle on blood components than plastic strand fibers.

Hemo-Nate® Configurations

Order Number	Description	Packaging Quantity
4020009	Hemo-Nate 18 micron Filter	50 / box
4020005	Needleless Hemo-Nate 18 micron Filter Set	50 / box
4020609	Hemo-Tap Valve for Needleless Set	30 / box



Needleless bag spike for safe and convenient access to blood bag.

Luer locking one-way stopcock connector allows convenient access to blood source.

20 ml syringe caters to the needs of the neonatal/pediatric population.

Needleless Hemo-Nate® Filter Set

INDICATED FOR:

- Neonatal Whole Blood Infusion
- Neonatal Packed Cell Infusion
- Platelet Infusion
- FFP (Fresh Frozen Plasma)
- AHF Concentrates
- Cryoprecipitates
- I.V. Fat Emulsions
- TPN Preparation
- Other Blood Fractionates
- Drugs (as a particulate filter)

* Not indicated as an anti-bacterial or anti-microbial filter

DEHP
Free

MYELO-NATE®

Neonatal/Pediatric CSF Sampling Kit



The Myelo-Nate CSF Sampling Kit minimizes trauma and reduces the risk of infection from cerebrospinal space access. The short, bevel-point design of the needle is less traumatic than other types of lumbar puncture needles because its Quincke-type point spreads and displaces the dura mater rather than cutting through it. This reduces overall penetration forces, yet still gives a positive feel when penetrating the dura mater, and avoids leaving a hole in the spinal column that would allow CSF leakage or infection.

Myelo-Nate's crystal clear hub provides quick visual detection of fluid flow.



Tray contains only necessary components for neonatal/pediatric CSF sampling:

- 1 Fenestrated drape
- 3 Gauze pads
- 1 Myelo-Nate needle
- 1 Point-Lok needle retention device
- 3 Povidone-Iodine swabsticks
- 1 Spot bandage
- 1 Polylined 24" x 24" drape
- 4 Graduated vials that can be positioned upright in tray for more convenient use.

Myelo-Nate® Configurations

Order Number	Needle Size	Configuration	Packaging Quantity
4011019	22 ga x 1"	Needle Only	30 / box
4011015	22 ga x 1"	Procedure Kit	10 / box
4011529	22 ga x 1.5"	Needle Only	30 / box
4011525	22 ga x 1.5"	Procedure Kit	10 / box
4011519	25 ga x 1"	Needle Only	30 / box
4011515	25 ga x 1"	Procedure Kit	10 / box

PALA-NATE®

DEHP Free

Unique Silicone Orotracheal Protection Device

Studies have shown a high incidence of adverse effects in babies subject to prolonged intubation:

- Palatal grooves, high palatal vaults, posterior cross-bites, and poor speech intelligibility are strongly linked to long-term intubation.
- The effects of palatal grooves can be persistent for as long as five years, and thus may affect future dental and orofacial development.
- The presence of orotracheal tubes causes discomfort in babies, whose resulting jaw and tongue reactions can dislocate nasojejunal feeding tubes. Reintroduction of extubated devices can result in oroesophageal trauma.

Since these effects have permanent, long-term negative effects, taking action to protect baby's palate from damage should be a priority. The innovative Pala-Nate is an ideal solution to these serious and avoidable problems. Pala-Nate is made from soft, biocompatible silicone, which gently protects the palate from localized pressures that cause palatal grooves. The four Pala-Nate sizes allow for precise and comfortable fit on a full range of babies.

- Virtually eliminates palatal grooves
- Reduces spontaneous extubation
- Increases baby's tolerance of orotracheal intubation



How prevalent are palatal grooves?

In a study¹ of 26 intubated babies whose birth weights ranged from 540g to 1740g, and whose intubation duration ranged from 7 to 109 days, a palatal protection device prevented palatal grooves in all cases, while all babies in a control group (that did not have palatal protection) developed palatal grooves ranging from 2-5mm in depth. This data demonstrates that:

- 1) palatal grooving is common in intubated premature babies, and
- 2) the use of an intraoral device for premature, intubated babies prevents palatal grooves.



Left: A mold of the normal neonatal palate. Right: Endotracheal intubation produces direct, localized pressure on the newborn's fragile palate. Intubation over just a few days can irritate palatal tissue, contributing to long-term abnormal growth patterns. These growth patterns may not be immediately apparent, and often continue to develop after extubation.

¹ Fadavi, et al, Use of a palatal stabilizing device in prevention of palatal grooves in premature infants, Crit Care Med, 18, 1990

Pala-Nate® Configurations

Order Number	Size (baby weight)	Dimensions	Packaging Quantity
4001500	Extra Small (<800g)	1.5cm W x 1.3cm L	10 / box
4002000	Small (800g-1200g)	2.0cm W x 1.8cm L	10 / box
4002500	Medium (1200g-1500g)	2.5cm W x 2.0cm L	10 / box
4003000	Large (>1500g)	3.0cm W x 2.7cm L	10 / box
4005000	Sampler Pack: 2 XS, 3 S, 3 M, 2 L		10 / pack

DEHP
Free

URI-CATH™

Pre-assembled Closed Urinary Drainage System
for the Neonatal/Pediatric Patient

Babies in the NICU require gentle urinary drainage. Silicone is the ideal irritation-free catheter material for use in the fragile urethral tissue. The Uri-Cath set is a sterile, pre-assembled urinary drainage system that provides continuous and accurate monitoring of urine output, eliminating the inconvenience and measurement error associated with weighing diapers. Gentle silicone catheter material and soft rounded tip with non-wettable surface reduces trauma during insertion and avoids perforation.

- Pre-assembled closed system reduces risk of infection and reduces valuable nursing time.
- Stopcock with sampling access site allows for non-contaminated midstream specimen sampling.
- Biocompatible, non-reactive silicone minimizes urethral irritation and encrustation associated with other materials.
- 150ml burette for accurate urine output measurement.
- Distal end side holes allow for more effective drainage.

Uri-Cath® Configurations

Order Number	Catheter Size	Configuration	Packaging Quantity
4193505	3.5Fr	Catheter Only	10 / box
4193507	3.5Fr	Procedure Kit	10 / box
4193509	3.5Fr	Procedure Kit (no iodine)	10 / box
4195005	5.0Fr	Catheter Only	10 / box
4195007	5.0Fr	Procedure Kit	10 / box
4195009	5.0Fr	Procedure Kit (no iodine)	10 / box
4196505	6.5Fr	Catheter Only	10 / box
4196507	6.5Fr	Procedure Kit	10 / box
4198005	8.0Fr	Catheter Only	10 / box
4198007	8.0Fr	Procedure Kit	10 / box
4198009	8.0Fr	Procedure Kit (no iodine)	10 / box

DEHP
Free

THORA-CATH®

Silicone Chest Drainage Catheter

Thora-Cath is designed to minimize bruising to the pleura and the chest wall during insertion. The soft, non-wettable silicone material prevents scarring of tissue and debris adhesion. It may be inserted with or without the included stainless steel trocar. The universal hub adapts to suction drainage systems. A distal side hole interrupts radiopaque stripes for easy identification on X-ray.

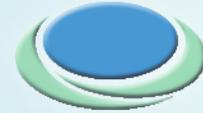
Thora-Cath® Configurations

Order Number	Catheter Size	Length	Packaging Quantity
4149609	9.6Fr	14cm	10 / box
4141209	12.0Fr	14cm	10 / box
4141409	14.0Fr	14cm	10 / box



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