



Single-lumen umbilical catheters

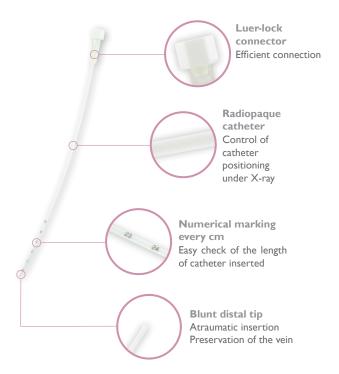
Umbilical venous catheters are used for:

- Parenteral nutrition & fluid administration
- Drugs administration
- Venous blood sampling
- Transfusion of blood or blood products
- Exchange transfusion

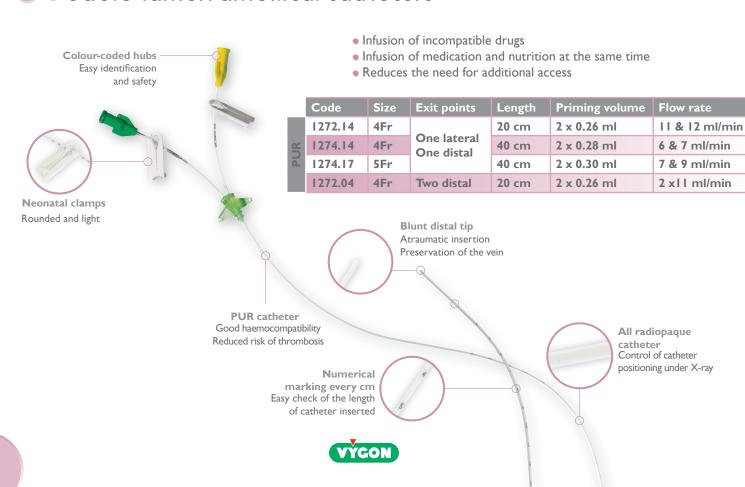
	Code	Size	Length	Flow rate			
PUR	1270.02	2.5Fr	30 cm	> 2 ml/min			
	1270.03	3.5Fr	40 cm	> II ml/min			
	1270.04	4Fr	40 cm	> 18 ml/min			
	1270.05	5Fr	40 cm	> 24 ml/min			
	1270.08	8Fr	40 cm	> 79 ml/min			
	270.03	3.5Fr	37 cm	> 6 ml/min			
	270.04	4Fr	37 cm	> 16 ml/min			
PVC	270.05	5Fr	37 cm	> 31 ml/min			
₹	270.06	6Fr	37 cm	> 52 ml/min			
	270.07	7Fr	37 cm	> 80 ml/min			
	270.08	8Fr	37 cm	> 120 ml/min			

Umbilical arterial catheters are used for:

- Arterial blood sampling
- Arterial pressure measurement
- Blood pH and blood gas analysis
- Fluids and drugs administration

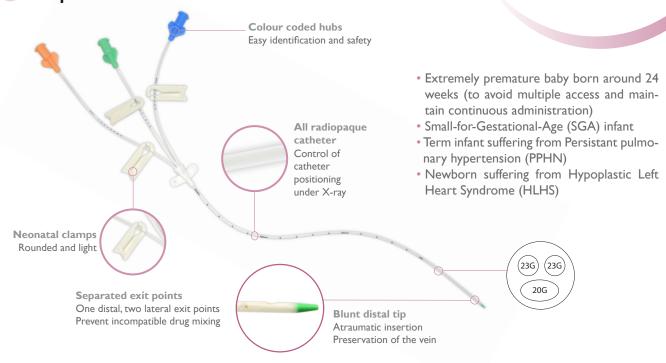


Double-lumen umbilical catheters



Umbilical catheters

Triple-lumen umbilical catheter



PUR	Code	Catheter		Distal lumen		Medial lumen		Proximal lumen					
		Fr	Length	Ext.	G	Flow	Prim.	G	Flow	Prim.	G	Flow	Prim.
				Ø		rate	vol.		rate	vol.		rate	vol.
				mm		ml/min	ml		ml/min	ml		ml/min	ml
	V02127315	4.5	20	1.5	20	7.4	0.20	23	2	0.17	23	2.1	0.17

Insertion technique

Ise strict aseptic technique, disinfect the abdominal wall and cord stump. Place a sterile rape with central opening.

osely tie an umbilical tape around the cord stump to control bleeding. Cut the bilical cord horizontally I cm above the skin, remove any clots which may obstruct vessel lumen.

ify the vessels: arteries are small, thick walled spiralling vessels and vein is larger and ralled.

the catheter and if required dilate the vessel using iris forceps.

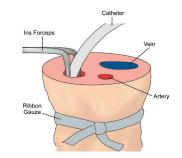
- e the catheter using short, smooth strokes.
- cm markings on the catheter to note the length of catheter inserted.

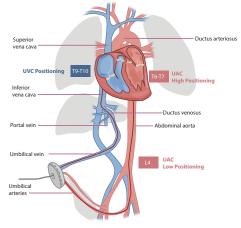
 Iture in the wall of the cord taking care not to puncture the catheter.
- catheter according to your local policies.

he location of the catheter by radiography.

atheterization: Umbilical arterial catheter can be sited either in the high position though the higher position is associated with lower complication high positioning of umbilical arterial catheter is recommended ⁽⁴⁾.

heterization, the catheter tip should be placed beyond the ductus ntral venous system (inferior vena cava). In emergency situations, the serted 2-3 cm (until blood is returned) and emergency meds can be should not be left in this location and should be removed after giving ons.









Umbilical Placement Set

The umbilical placement set is a procedure pack containing all the necessary material to place an umbilical catheter

- Save time and money by reducing preparation time / Improving stock management/ Reducing waste
- Increase safety by reducing the risk of infection / Simplifying procedure / Traceability
- Instruments dedicated to neonates: Neonatal tourniquet designed to reduce skin trauma / Non adhesive drapes respectful of the fragile skin of newborns.



- 18 G hypodermic safety needle
- 20 G hypodermic safety needle
- Scalpel
- Drapes without adhesive
- 40x40cm fenestrated transparent drape with "Easy-peel"
- Drape towels
- I pair of suture scissors
- 10 swabs 10 x 10, 8-ply
- 10 swabs 5 x 5, 8-ply
- I transparent gallipot 60 ml

- I red gallipot 60 ml
- Outer wrap
- Instructions for use
- Umbilical tape
- Measuring guide
- Mosquito haemostat curved
- Mosquito haemostat ,straight
- Iris forceps, "full curved"
- Iris forceps, half curve
- Iris forceps, straight
- Iris forceps, straight with teeth

- Needle holder
- Measuring tape
- I ml syringe
- 3 ml syringe
- 5 ml syringe
- Vessel dilator probe
- 3.0 silk suture with curved cutting needle
- Tray 20 x 15 x 4 cm
- 2 fixation strips

Bibliography

- I. Sawyer, T.L. (2011) Umbilical Arterial Catheterization Accessed
- 2. Kuschel, C. (2011) Newborn Services Clinical Guideline Umbilical Artery and Vein Catheterisation
- 3. McCormick, P.C. Stein, B.M. (1990) Functional anatomy of the spinal cord and related structure, Journal of Neurosurgery, Vol 1, pp:469-89
- 4.Kaleidoscope Hunter Children's health Network, Guideline Umbilical Arterial Catheter in NICU August 2009

For further information, please contact: questions@vygon.com

The specifications given in this brochure are for information only and are not, under any circumstances, of a contractual nature.

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