

# Information for Clinical Choice Matrix and Support Document

# IV Cannula and Associated Products Safety Winged Non-Ported IV Cannula

Information for Clinical Choice (ICC) has been developed to assist Clinicians in the decision-making process when assessing the suitability of a product. It gives customers the assurance that they can switch to alternative products without the concern that quality will be compromised. The criteria provided, in the form of a Product Matrix and Support Document, is the result of an independent product review, conducted by the Clinical Collaboration Team (CCT), with support from clinical stakeholders from across the NHS, as part of our assurance process. The aim, alongside delivering savings back into NHS frontline services, is to ensure that clinical choice remains at the forefront of any product switching decision as this serves to provide the best output for patients.

### Safety Intravenous (IV) Cannula

A Safety Peripheral Intravenous Cannula or Catheter (SPIVC) is a vascular access medical device which is directly threaded into a vessel after venepuncture with a needle, known as a stylet ("catheter over the needle" configuration).<sup>1,4-</sup>

SPIVC is intended for the purpose of administering intravenous (IV) therapy such as IV fluids or medications, directly into a blood vessel or to obtain a blood sample at the time of insertion.<sup>1,2,4</sup>

#### **Product component parts**

- Cannula is a small flexible tube
- Stylet is a bevelled needle that aides in insertion of cannula
- Hub or septum
- Bilateral flexible wings for hub stability
- Safety Mechanism
  - o Active Mechanism: The Practitioner must push a button to activate safety feature.
  - Passive Mechanism: The Stylet has a blunting or shielding feature which is automatically activated on removal from the cannula.<sup>2,3,4-</sup>

#### **Common types of SPIVC**

- Safety winged non-ported
- Safety winged ported
- Safety non-winged straight
- Safety Integrated

#### Safety winged non-ported IV cannula - Blood control and non-blood control

Blood Control mechanism mimics venous valves encouraging unidirectional flow of blood, preventing pooling of blood thereby avoiding leakage out from the cannula at insertion.

#### **Recommended use**

Intended for short-term therapy lasting less than a week. Bolus injections or short infusions.

Supply Chain Coordination Limited (SCCL) is the Management Function of the NHS Supply Chain Registered in England No: 10881715. VAT No: 290 8858 54 Registered Office: Skipton House, 80 London Road, London, United Kingdom, SE1 6LH



IV Non-Blood Control (Part 1)								
Supplier	B Braun	B Braun	BD	GBUK				
Brand	Introcan Safety	Introcan Safety	BD Insyte™ Autoguard™	Polycan safety				
MPC	4253540-01	4254511-01	381923	SICSW2225P				
NPC	FSP2148	FSP2586	FSP301	FSP20057				
Description	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm				
Picture		-						
Route	Stocked	Stocked	Stocked	Blue Diamond				
UOI	1	1	50	50				
Cannula and catheter length ranges	14G x 50mm 16G x 50mm 18G x 45mm 20G x 32mm 24G x 14mm 24G x 19mm	14G x 50mm 16G x 50mm 18G x 45mm 20G x 32mm 24G x 19mm	18G x 30mm 20G x 25mm 24G x 14mm 24G x 19mm	14G x 45mm 16G x 45mm 18G x 32mm 20G x 32mm 24G x 19mm				
Safety mechanism	Passive	Passive	Passive	Passive				
Gravity flow rate	35 mL/min	35 mL/min	35 mL/min	36 mL/min				
Radiopaque catheter (PUR/FEP)	Yes PUR	Yes FEP	Yes PUR	Yes PUR				
DEHP-free fluid pathway	$\checkmark$	$\checkmark$	$\checkmark$	✓				
Latex-free	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				
Cannula fulfil ISO colour	✓	$\checkmark$	$\checkmark$	✓				
Transparent flashback chamber	✓	✓	✓	×				
Power injectable	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				
Power injectable (psi)	300 psi	300 psi	300 psi	325-330 psi				
Power injection flow rate (mL/sec)	8 mL/sec	8 mL/sec	3.5 mL/sec	6-8 mL/sec				

Supply Chain Coordination Limited (SCCL) is the Management Function of the NHS Supply Chain Registered in England No: 10881715. VAT No: 290 8858 54 Registered Office: Skipton House, 80 London Road, London, United Kingdom, SE1 6LH

(;÷)

 $\bigcirc$ 

篇

IV Non-Blood Control (Part 2)								
Supplier	Iskus	Praxis	Smiths Medical	Smiths Medical	Vygon			
Brand	SentraCan Safety	Praxis Medical	Smiths Medical PROTECTIV® Plus W	Smiths Medical PROTECTIV® W	Vigmed CLIP			
MPC	A/1114/22/P	IV-SSW24-25	3080	307000	VACVW222511			
NPC	FSB1679	ТВС	FSP4601	FSP4592	FSB2029			
Description	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Yellow 24G x 19mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm			
Picture		- and		- alter	- the			
Route	Stocked	E Direct	Blue Diamond	Blue Diamond	Blue Diamond			
UOI	50	25	200	200	50			
Cannula and catheter length ranges	14G x 45mm 16G x 45mm 18G x 45mm 20G x 32mm 24G x 19mm 26G x 19mm	No further size ranges	14G x 32mm 16G x 32mm 18G x 32mm 20G x 32mm	14G x 32mm 16G x 32mm 18G x 32mm 20G x 32mm	14G x 45mm 16G x 45mm 18G x 32mm 18G x 45mm 20G x 32mm 24G x 19mm 26G x 19mm			
Safety mechanism	Passive	Passive	Active	Active	Passive			
Gravity flow rate	36 mL/min	>15 mL/sec	38 mL/min	38 mL/min	38 mL/min			
Radiopaque catheter (PUR/FEP)	Yes PUR	Yes PUR	Yes PUR	Yes FEP	Yes PUR			
DEHP-free fluid pathway	✓	×	✓	✓	✓			
Latex-free	✓	✓	✓	✓	✓			
Cannula fulfil ISO colour	✓	✓	$\checkmark$	✓	✓			
Transparent flashback chamber	✓	<ul> <li>✓</li> </ul>	×	×	✓			
Power injectable	✓	<ul> <li>✓</li> </ul>	$\checkmark$	$\checkmark$	$\checkmark$			
Power injectable (psi)	380 psi	14.5 psi	300 psi	300 psi	305 psi			
Power injection flow rate (mL/sec)	4-8 mL/sec	14.5 mL/sec	6-9 mL/sec	6-9 mL/sec	8mL/sec			



IV With Blood Control								
Supplier	B Braun	BD	GBUK	ICU UK Medical	Praxis			
Brand	Introcan Safety 3	BD Cathena™	Polysafety - BC	SuperCath 5	Praxis Medical			
MPC	4251128-01	386813	SICSWBC2225P	SP120-22-25-WT	IV-SSW24-25			
NPC	FSP2619	FSP4540	FSP20060	FSB2010	FSP4996			
Description	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Blue 22G x 25mm	Safety Cannula Straight with Wings Yellow 24G x 19mm			
Picture					-			
Route	Stocked	E Direct	Blue Diamond	E Direct	E Direct			
UOI	50	30	50	50	50			
Cannula and catheter length ranges	14G x 50mm 16G x 32mm 16G x 50mm 18G x 32mm 18G x 45mm 20G x 50mm 20G x 32mm 20G x 24mm 24G x 19mm	16G x 32mm 16G x 51mm 18G x 32mm 18G x 51mm 20G x 25mm 20G x 32mm 20G x 51mm 22G x 51mm 24G x 19mm	18G x 32mm 20G x 32mm 24G x 19mm	18G x 31mm 20G x 31mm 22G x 31mm 22G x 31mm 22G x 31mm 22G x 25mm 24G x 19mm	No alternatives available			
Safety mechanism	Passive	Passive	Passive	Active	Passive			
Gravity flow rate	35 mL/min	38 mL/min	30 mL/min	31 mL/min	>15 mL/sec			
Radiopaque catheter	Yes	Yes	Yes	Yes	Yes			
DEHP-free fluid pathway	✓ ✓	✓ ✓	✓ ✓	✓ ·	✓ V			
Latex-free	✓	✓	4	×	✓			
Cannula fulfil ISO colour	✓	×	4	✓	✓			
Transparent flashback chamber	✓	×	×	✓	✓			
Power injectable	✓	✓	×	×	✓			
Power injectable (psi)	300 psi	325 psi	325-330 psi	300 psi	14.5 psi			
Power injection flow rate (mL/sec)	8 mL/sec	Not Available	7-8 mL/sec	7.0 mL/sec to 15.0 mL/sec	14.5 mL/sec			

Supply Chain Coordination Limited (SCCL) is the Management Function of the NHS Supply Chain Registered in England No: 10881715. VAT No: 290 8858 54 Registered Office: Skipton House, 80 London Road, London, United Kingdom, SE1 6LH

(;+)

(WW

 $\bigcirc$ 



## **Useful Resources:**

- 1. Clinical Review: Safety peripheral intravenous cannula (2018) NHS Clinical Evaluation Team <u>https://wwwmedia.supplychain.nhs.uk/media/Clinical Review Safety Peripheral Intravenous Ca</u> <u>nnula Report October 2018.pdf</u>
- 2. Gorski, L., Hadaway, L., Hagle, M., et al. (2016) Infusion therapy standards of practice. *Journal of Infusion Nursing*, 39(1Suppl.), S1-159.
- 3. Health and Safety Executive (HSE) (2013) *Health and Safety (Sharp Instruments in Healthcare) Regulations: Guidance for Employers and Employees.* London: Health and Safety Executive.
- 4. Lister, S., Hofland, J. and Grafton H. (eds) (2020) *The Royal Marsden Manual of Clinical Nursing Procedures*, 10th ed. John Wiley and Sons, Chichester.

If you have any questions, would like further information or have feedback to share please contact:

Maya Guerrero – <u>maya.guerrero@supplychain.nhs.uk</u> Ward Based Consumables - Clinical Specialist Lead – NIVAS member – IV access nurse

Dan Lewin – <u>dan.lewin@supplychain.nhs.uk</u> Ward Based Consumables - Clinical Specialist Lead

Charlotte Farrell – <u>charlotte.farrell@supplychain.nhs.uk</u> - Ward Based Consumables - Buyer

Karen Hudson – <u>karen.hudson@supplychain.nhs.uk</u> Ward Based Consumables - Clinical Program Manager

Supply Chain Coordination Limited (SCCL) is the Management Function of the NHS Supply Chain Registered in England No: 10881715. VAT No: 290 8858 54 Registered Office: Skipton House, 80 London Road, London, United Kingdom, SE1 6LH

