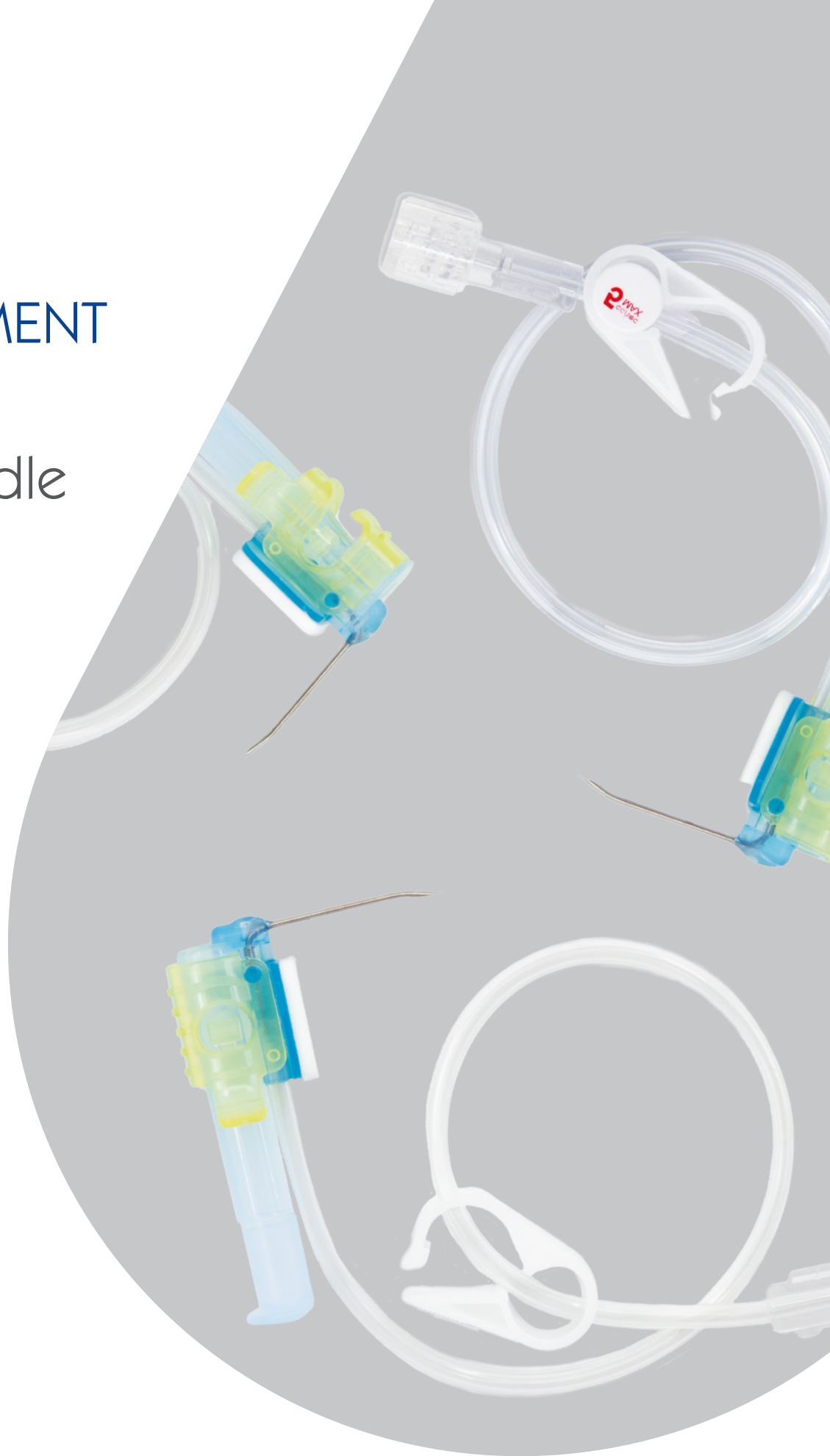


# VASCULAR MANAGEMENT

## Huber needle PRODUCT GUIDE



## WHY CHOOSE VYGON?

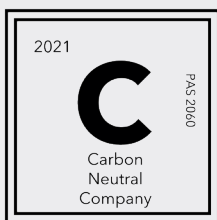


**OVER  
60  
YEARS  
EXPERIENCE**

**PATIENT CARE  
LIES AT THE HEART  
OF WHAT WE DO**



**CLINICAL  
EXPERTISE**



WE ACHIEVED  
**CARBON  
NEUTRALITY**  
2021 & 2022

MORE THAN  
**100 MILLION**  
PRODUCTS IN  
**110 COUNTRIES**



## CONTENTS

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## OUR SERVICE OFFERING



### **Customer Service & Technical Support**

Talk through your enquiry with our dedicated Teams.



### **Education & Training**

We offer our customers a variety of valuable and comprehensive training options to help you and your teams meet your training requirements.

## INTRODUCING VYGON'S SAFETY HUBER NEEDLES

As vascular access experts, we know how important it is for patients and clinicians, that the combination of totally implantable vascular access devices (TIVADs) and Huber needles maximises treatment effectiveness and minimises risks.

Key qualities in the design of our Huber needles include safety features which protect against needlestick injuries and minimise the risk of occlusion after the needle is withdrawn.

Other benefits include ease of use with single hand activation and a simple, straight-forward withdrawal process.

In addition to the comprehensive benefits in our Polyperf™ safe Huber needle, the Vygon range features needles with special features to address particular clinical needs. They are:

- PPS flow +™ - single-handed removal plus automatic positive pressure helps to reduce catheter occlusion
- PPSCT™ - power injection compatible Huber needle for use with contrast agents.

The Vygon PPS CT Huber needle has been used throughout The Clatterbridge Cancer Centre as the trust approved Huber needle of choice since the development of the port insertion service in 2016. Clatterbridge selected the PPS based on the ease of use, reliability and the clear understanding of the device for all staff groups.

"The unique design of the PPS offers a consistently reliable device that is both easy and safe for staff to use to access all ports successfully. Most importantly the PPS allows visible positive pressure flushing technique on removal of the needle, demonstrated by a small "splash of saline" eliminating the risks of blood reflux. The structure of the device ensures a comfortable experience for patients helped by staff being able to hold the lever section to visualise the needle tip to rest on the skin at the centre of the port whilst securing the port with the non -dominant hand increasing first time successes"

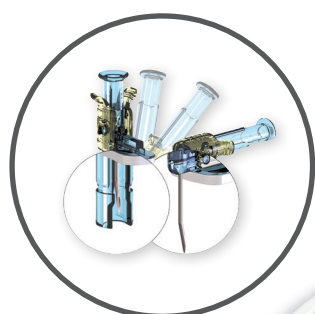
**Carol McCormick, Clinical Interventions Lead Nurse, The Clatterbridge Cancer Centre.**

# polyperf™ safe

AUTOMATIC  
SAFETY  
MECHANISM  
DURING  
REMOVAL

## SAFETY HUBER NEEDLES

Single-handed activation: decreased blood exposure risk versus double activated device<sup>1</sup>



### Protection

- Total protection until discarded in sharps container

### Positive pressure locking

- Simple two-handed technique allows for easy positive pressure lock of TIVAD

### Safety

- Eliminates the risk of needlestick injury
- No rebound effect when withdrawing the needle
- No risk of contact with the body of the needle<sup>(2)</sup>

### Withdrawal

- Withdrawal of the needle with only one hand

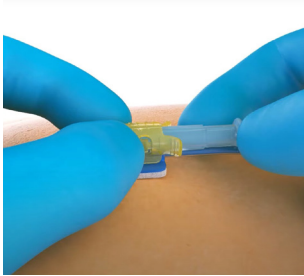


Polyperf™ safe is packaged in cartons of 12 units. Sterilised using ethylene oxide.

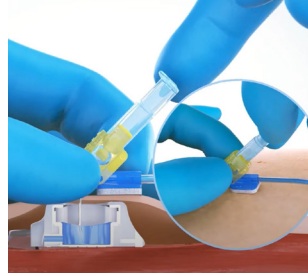
**NO DEHP**

**This device is not made with dry or natural rubber latex.**

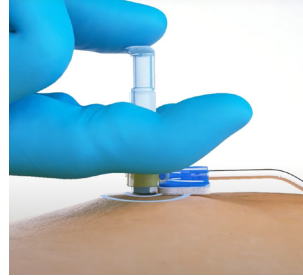
## Withdrawal of the needle



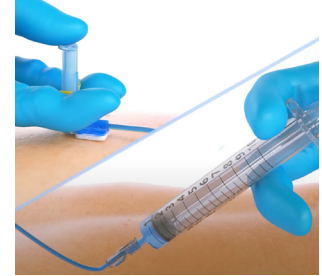
Hold the blue platform with 2 fingers.



Lift the piston from the horizontal position to the vertical position (perpendicular to the septum) while holding the platform with 2 fingers.



Make sure:  
 - The needle piston is perpendicular to the septum and in contact with the skin  
 - To place one hand on the opposite side of the blue platform, put your thumb on the piston, your forefinger and middle finger under the winglets (on both side of the piston).



Maintain the piston in the vertical position with your thumb. Then simultaneously, inject saline with the other hand and lift the extractor (with an upward movement) until there is a CLICK corresponding to the total locking of the needle. This final step eliminates the risk of accidental needlestick injury. Discard the needle into the sharps safety box

## ORDERING CODES

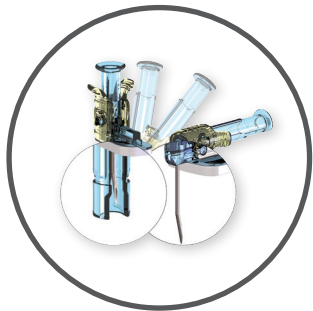
Vygon code	Gauge (G)	Needle length (mm)	Hub colour
VPE601507	22	15	Black
VPE601707	22	17	Black
VPE602007	22	20	Black
VPE602507	22	25	Black
VPE603007	22	30	Black
VPE603507	22	35	Black
VPE601509	20	15	Orange
VPE601709	20	17	Orange
VPE602009	20	20	Orange
VPE602509	20	25	Orange
VPE603009	20	30	Orange
VPE603509	20	35	Orange
VPE601511	19	15	Light Orange
VPE601711	19	17	Light Orange
VPE602011	19	20	Light Orange
VPE602511	19	25	Light Orange
VPE603011	19	30	Light Orange
VPE603511	19	35	Light Orange

# PPSCT™

## SAFETY HUBER NEEDLES

Power injection compatible.

Max flow rate:  
 22G = 2 mL/sec  
 19G & 20G = 5 mL/sec  
 Max pressure  
 setting: 300 psi



**Protection**

- Total protection until discarded in sharps container

**Positive pressure locking**

- Simple two-handed technique allows for easy positive pressure lock of TIVAD

**Safety**

- Eliminates the risk of needlestick injury
- No rebound effect when withdrawing the needle
- No risk of contact with the body of the needle<sup>(2)</sup>

**Withdrawal**

- Withdrawal of the needle with only one hand

**Compatibility**

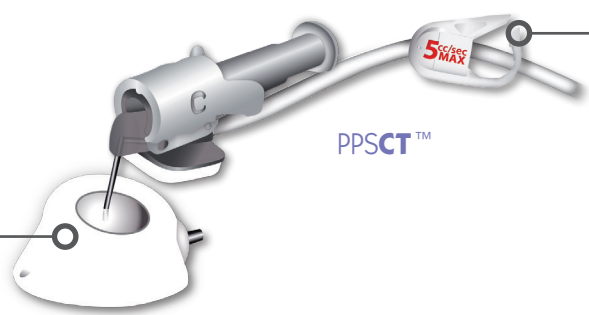
- Compatibility with CT scan injection

**Infusion rate**

- Ring indicating the maximum infusion rate on the needle

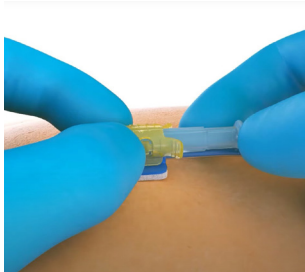
**Power injection**

- TIVAD compatible with power injection

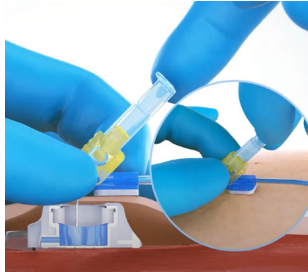


**NO DEHP**  
 This device is not made with dry or natural rubber latex.  
 PPSCT™ is packed in a carton of 12 units.  
 Sterilisation by ethylene oxide.

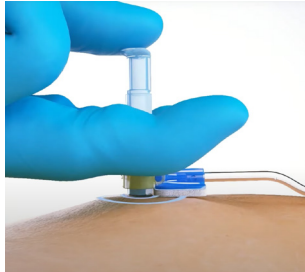
**Withdrawal of the needle**



Hold the blue platform with 2 fingers.



Lift the piston from the horizontal position to the vertical position (perpendicular to the septum) while holding the platform with 2 fingers.



Make sure:  
 - The needle piston is perpendicular to the septum and in contact with the skin  
 - To place one hand on the opposite side of the blue platform, put your thumb on the piston, your forefinger and middle finger under the winglets (on both side of the piston).



Maintain the piston in the vertical position with your thumb. Then simultaneously, inject saline with the other hand and lift the extractor (with an upward movement) until there is a CLICK corresponding to the total locking of the needle. This final step eliminates the risk of accidental needlestick injury. Discard the needle into the sharps safety box

**ORDERING CODES**

Vygon code	Gauge (G)	Needle length (mm)	Max. flow rate	Hub colour
VPE801507	22	15	2mL/sec 300 psi	Black
VPE801707	22	17		Black
VPE802007	22	20		Black
VPE802507	22	25		Black
VPE803007	22	30		Black
VPE803507	22	35		Black
VPE801509	20	15	5mL/sec 300 psi	Orange
VPE801709	20	17		Orange
VPE802009	20	20		Orange
VPE802509	20	25		Orange
VPE803009	20	30		Orange
VPE803509	20	35		Orange
VPE801511	19	15	5mL/sec 300 psi	Light Orange
VPE801711	19	17		Light Orange
VPE802011	19	20		Light Orange
VPE802511	19	25		Light Orange
VPE803011	19	30		Light Orange
VPE803511	19	35		Light Orange

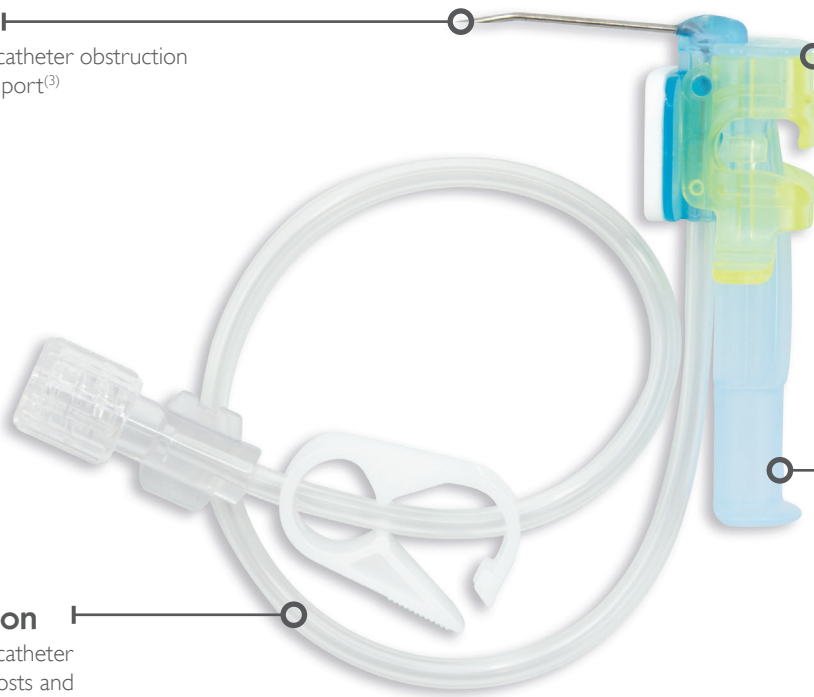
# PPS flow +<sup>TM</sup>

## Safety Huber needles

Single-handed activation for automatic positive pressure lock<sup>1</sup>

### Prevention

- Prevention of catheter obstruction of implantable port<sup>(3)</sup>



### Automatic positive pressure lock

- Reduces the need to use fibrinolytic agents<sup>(4)</sup>

### Reduction

- Significant reduction of blood reflux at the distal of the catheter

### Cost reduction

- Compared to catheter occlusion on-costs and complications<sup>(5)</sup>(x-rays, nursing time, etc.)

## Withdrawal of the needle



Hold the blue platform with 2 fingers.



Lift the piston from the horizontal position to the vertical position (perpendicular to the septum) while holding the platform with 2 fingers.



Make sure, the needle piston is perpendicular to the septum and in contact with the skin.



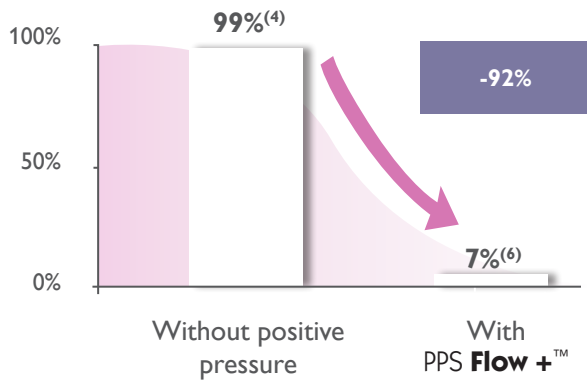
Insert the line into the notch and pull it downwards.



Place your hand on the opposite side of the blue platform, put your thumb on the piston, your forefinger and middle finger under the winglets (on both side of the piston). Maintain the piston in the vertical position with your thumb and lift the extractor (with an upward movement) until there is a CLICK corresponding to the total locking of the needle. This final step eliminates the risk of accidental needlestick injury.



### % of cases with reflux



Manual positive pressure:  
**Reflux in 20% of cases<sup>(4)</sup>**  
 (operator-dependent)



**Benefit of an automatic positive pressure<sup>(4)</sup>**

## ORDERING CODES

Vygon code	Gauge (G)	Needle length (mm)	Hub colour
VPE701507	22	15	Black
VPE701707	22	17	Black
VPE702007	22	20	Black
VPE702507	22	25	Black
VPE703007	22	30	Black
VPE703507	22	35	Black
VPE701509	20	15	Orange
VPE701709	20	17	Orange
VPE702009	20	20	Orange
VPE702509	20	25	Orange
VPE703009	20	30	Orange
VPE703509	20	35	Orange
VPE701511	19	15	Light Orange
VPE701711	19	17	Light Orange
VPE702011	19	20	Light Orange
VPE702511	19	25	Light Orange
VPE703011	19	30	Light Orange
VPE703511	19	35	Light Orange

PPS flow +™ safety Huber needles are packaged in cartons of 12 units. Sterilised using ethylene oxide.  
**NO DEHP**  
 This device is not made with dry or natural rubber latex.

# CLINICAL SUPPORT AND TRAINING

Supporting our range of Huber needles is Vygon's expertise in vascular access training and education. We prioritise the development of our learning resources and up-to-date information, which we consider vital in supporting you and your patients in implementing changes in practice to improve clinical outcomes.

Our training options are tailored to your needs, from local sessions with your Product Specialist to peer-led workshops led by our experienced Clinical Nurse Educators. These educators bring real-world experience and a deep understanding of vascular access, ensuring you get the practical knowledge and skills you need and helping to engrain the necessary behaviours, attitudes, skills and knowledge to deliver high-quality, safe, person-centred care.



PPS FLOW  
VIDEO



POLYPERF  
VIDEO



RESOURCES



CAMPUS  
VYGON



## CAMPUS | VYGON

A place to learn about  
**healthcare procedures**  
and **techniques** from  
leading experts.

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## OUR COMMITMENT TO THE ENVIRONMENT

2021 was a landmark year as Vygon UK achieved carbon neutrality in accordance with the guidance set out in PAS 2060, with certification renewed in 2022 as year-on-year emission reductions were achieved and the residual emissions were offset with the purchase of high-quality Verified Carbon Standard (VCS) emission reduction projects. Vygon are in the process of expanding its emissions reporting to include Scope 3 emissions, this will involve a baseline year reset and result in reporting higher emissions than in previous years and therefore, unable to purchase carbon credits. Following the baseline year and emission targets reset, our focus will be to regain Carbon Neutral status.

We are delighted to announce that Vygon UK has successfully undergone the NHS Evergreen Sustainable Supplier Assessment, attaining level 2 status. This is key to supporting us to understand how we align to the NHS's long-term sustainability priorities and the pathway to progress.

These accomplishments underscore our unwavering dedication to sustainable practices and reinforces our role as a responsible contributor to the healthcare system.



DISCOVER OUR JOURNEY  
scan with your smart device



## REFERENCES

- 1 Survey of the occurrence circumstances of Accidental Blood Exposure due to punctures with safety materials, GERES – AFSSAPS Collaboration, G. Pellissier, 18th Annual GERES conference, 2008.
- 2 Biomatech study n°148381 - 28 June 2012 - p.64-66.
- 3 Carlo JT et al., The American Journal of Surgery 188:722-727, 2004.
- 4 Lapalu J & al., Totally Implantable Port Management: Impact of positive pressure during needle withdrawal on catheter tip occlusion (An experimental study), Journal of Vascular Access, 2010.
- 5 Biffi R & al., Totally implantable central venous access ports for long-term chemotherapy, Annals of Oncology 9:767-773, 1998.
- 6 H.Leveret, O.Albert, E. Barret, S.Villiers, MC.Douard, Poster for WoCoVa, A randomized experimental comparison of two safety Huber needles (HN) allowing manual or automatic positive pressure during needle removal: effect on the distal catheter reflux, 2014.

## References

- 1 Survey of the occurrence circumstances of Accidental Blood Exposure due to punctures with safety materials, GERES – AFSSAPS Collaboration, G. Pellissier, 18th Annual GERES conference, 2008.
- 2 Biomatech study n°148381 - 28 june 2012 - p.64-66.
- 3 Carlo JT et al., The American Journal of Surgery 188;722-727, 2004.
- 4 Lapalu J & al., Totally Implantable Port Management: Impact of positive pressure during needle withdrawal on catheter tip occlusion (An experimental study), Journal of Vascular Access, 2010.
- 5 Biffi R & al., Totally implantable central venous access ports for long-term chemotherapy, Annals of Oncology 9:767-773, 1998.
- 6 H.Lever, O.Albert, E. Barret, S.Villiers, MC.Douard, Poster for WoCoVa, A randomized experimental comparison of two safety Huber needles (HN) allowing manual or automatic positive pressure during needle removal: effect on the distal catheter reflux, 2014.

FOR FURTHER INFORMATION, PLEASE CONTACT: [info-uk@vygon.com](mailto:info-uk@vygon.com)

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