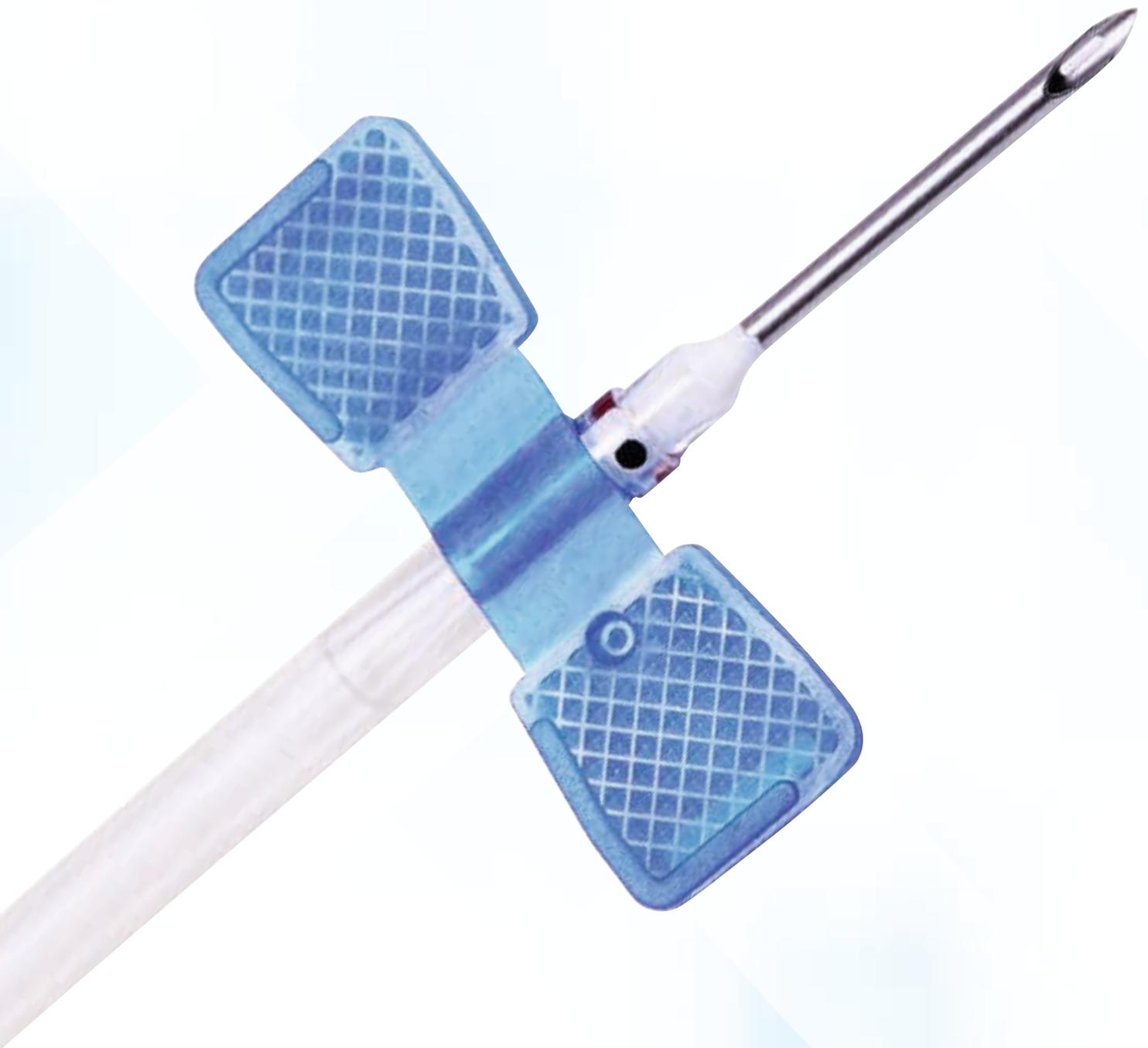


Baxter

NovaPlume
FISTULA NEEDLE SERIES

BAXTER NOVAPLUME NEEDLES

Individual solutions for hemodialysis patients



NOVAPLUME AV BLUNT (DULL) NEEDLES



WHAT IS BUTTONHOLE TECHNIQUE?

The buttonhole technique is a way to “cannulate,” which means “to insert dialysis needles.” Instead of sharp, pointed needles, dull needles are placed into the exact same holes on the fistula every time you have dialysis. Inserting the needles in the same holes creates a “tunneled track” for the needle.

ADVANTAGES OF BUTTONHOLE TECHNIQUE:

- Decreased discomfort in cannulation for both patients and nurses¹
- Less painful cannulation of both arterial and venous tunnel tracks²
- Improvement in the hemostatis time post dialysis³
- Reductions in the incidence of hematoma and the risk of thrombosis²
- Reduced missed sticks³
- Easier self-cannulation^{2,3}

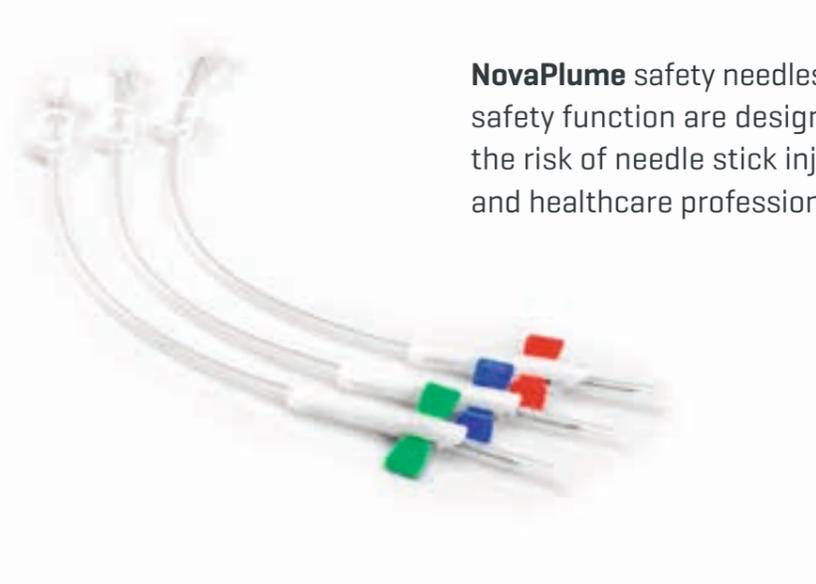
NOVAPLUME FOR BUTTONHOLE TECHNIQUE HAS THE SCAB REMOVER INCLUDED;

It can be removed without exposing the needle.

It replaces the need for tweezers or other separate instruments.



NOVAPLUME AV SAFETY NEEDLES



NovaPlume safety needles with the integrated safety function are designed to prevent the risk of needle stick injuries to patients and healthcare professionals.^{4,5}

WHEN OPERATING WITH SAFETY NEEDLE, PLEASE FOLLOW THE INSTRUCTIONS



1 Using one hand, apply gauze over the needle puncture site, with the other hand direct the protection sheath towards the needle wing



2 Adjust the direction of the protection sheath ensuring that the needle wing and protective sheath slot are parallel to each other



3 Begin to gently pull the needle blood tube backwards at the same time as pushing the protection sheath forwards



4 Continue pulling the needle blood tube backwards while pushing the protection sheath forward



5 Ensure the needle is completely inside the protection sheath slot, meanwhile use the middle finger and forefinger from other hand and gently press the puncture site



6 Check the needle is fully locked in the slot before discarding the needle appropriately

ORDERING INFORMATION

NOVAPLUME AV NEEDLES

PRODUCT REFERENCE		PRODUCT DESCRIPTION		NEEDLE OD [G]	NEEDLE LENGTH [MM]	TUBE LENGTH [CM]	STERILIZATION	EACH MIDDLE BOX	EACH CASE
Arterial	Venous	Arterial	Venous						
955883	955884	AVF1425SR01	AVF1425SR02	14	25	15	Gamma Radiation	50	700
955885		AVF1425LR01		14	25	30	Gamma Radiation	50	500
955886	955887	AVF1525SR01	AVF1525SR02	15	25	15	Gamma Radiation	50	700
955888	955889	AVF1520SR01	AVF1520SR02	15	20	15	Gamma Radiation	50	700
955890	955891	AVF1525LR01	AVF1525LR02	15	25	30	Gamma Radiation	50	500
	955892		AVF1525LF02*	15	25	30	Gamma Radiation	50	500
955893		AVF1532LR01		15	32	30	Gamma Radiation	50	500
955894	955895	AVF1625SR01	AVF1625SR02	16	25	15	Gamma Radiation	50	700
955896	955897	AVF1615SR01	AVF1615SR02	16	15	15	Gamma Radiation	50	700
955898	955899	AVF1620SR01	AVF1620SR02	16	20	15	Gamma Radiation	50	700
955900	955901	AVF1625LF01*	AVF1625LF02*	16	25	30	Gamma Radiation	50	500
955902	955903	AVF1625LR01	AVF1625LR02	16	25	30	Gamma Radiation	50	500
955904	955905	AVF1725SR01	AVF1725SR02	17	25	15	Gamma Radiation	50	700
955906		AVF1715SR01		17	15	15	Gamma Radiation	50	700
955907	955908	AVF1720SR01	AVF1720SR02	17	20	15	Gamma Radiation	50	700
955909	955910	AVF1725LR01	AVF1725LR02	17	25	30	Gamma Radiation	50	500

* Fixed wings

NOVAPLUME AV SAFETY NEEDLES

PRODUCT REFERENCE		PRODUCT DESCRIPTION		NEEDLE OD [G]	NEEDLE LENGTH [MM]	TUBE LENGTH [CM]	STERILIZATION	EACH MIDDLE BOX	EACH CASE
Arterial	Venous	Arterial	Venous						
955911	955912	AVF1520LR01S	AVF1520LR02S	15	20	30	Gamma Radiation	50	500
955913	955914	AVF1525SR01S	AVF1525SR02S	15	25	15	Gamma Radiation	50	700
955937	955938	AVF1525LR01S	AVF1525LR02S	15	25	30	Gamma Radiation	50	500
955939	955940	AVF1625LR01S	AVF1625LR02S	16	25	30	Gamma Radiation	50	500
955921	955922	AVF1620LR01S	AVF1620LR02S	16	20	30	Gamma Radiation	50	500
955924	955925	AVF1625SR01S	AVF1625SR02S	16	25	15	Gamma Radiation	50	700
955932	955933	AVF1720LR01S	AVF1720LR02S	17	20	30	Gamma Radiation	50	500
955941	955942	AVF1725LR01S	AVF1725LR02S	17	25	30	Gamma Radiation	50	500

NOVAPLUME AV BLUNT (DULL) NEEDLES

PRODUCT REFERENCE		PRODUCT DESCRIPTION		NEEDLE OD [G]	NEEDLE LENGTH [MM]	TUBE LENGTH [CM]	STERILIZATION	EACH MIDDLE BOX	EACH CASE
Arterial		Arterial							
955878		AVF1425LR01D		14	25	30	Gamma Radiation	50	500
955879		AVF1520LR01D		15	20	30	Gamma Radiation	50	500
955880		AVF1525LR01D		15	25	30	Gamma Radiation	50	500
955881		AVF1620LR01D		16	20	30	Gamma Radiation	50	500
955882		AVF1625LR01D		16	25	30	Gamma Radiation	50	500



Accurate cut of the needle tip and silicone coating designed for precise and smooth puncture.



Red and black markers at the needles hub allow to determine the exact position of the bevel.



Color-coded wings clearly indicate the gauge-size of the needle. Rotating wings designed for exact position of the bevel without affecting the wing position.

For the safe and proper use of the devices referenced within, refer to the complete Instructions for Use.

- Hartig V, Smyth W. *Everyone Should do Buttonhole: a Novel Technique for Regional Australian Renal Service*. J Renal Care. 2009 Sept; 35(3) 114-119.
- Rosa M, Marticorena, Joyce Hunter, Stephen MacLeod, Elizabeth Petershofer, Niki Dacouris, Sandra Donnelly, Marc B. Goldstein. *The salvage of aneurysmal fistulae utilizing a modified buttonhole cannulation technique and multiple cannulators*. Hemodialysis International. 2006; 10:193-200.
- Verhallen AM, Kooistra MP, Van Jaaisveld BC. *Cannulating in Hemodialysis: Rope Ladder or Buttonhole Technique?* Nephrol Dial Transplant. 2007 Sept; 22(9):2601-4.
- Wicker S. et al. *Prevalence and prevention of needlestick injuries among healthcare workers in a German university hospital*. Int Arch Occup Environ Health. 2008; 81:347-354
- T. Grimmond, L. Good. *Exposure Survey of Trends in Occupational Practice [EXPO-S.T.O.P.] 2015: A national survey of sharps injuries and mucocutaneous blood exposures among health care workers in US hospitals*. American Journal of Infection Control. 2017; 45:1218-23.

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