

# A SELECTION OF SCIENTIFIC LITERATURE ON CORD BLOOD PLATELET GEL

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1. Gelmetti A, Greppi N, Guez S, Grassi F, Rebullà P, Tadini G. Cord blood platelet gel for the treatment of inherited epidermolysis bullosa. *Transfus Apher Sci.* 2018 Jun;57(3):370-373.
2. Volpe P, Marcuccio D, Stilo G, Alberti A, Foti G, Volpe A, Princi D, Surace R, Pucci G, Massara M. Efficacy of cord blood platelet gel application for enhancing diabetic foot ulcer healing after lower limb revascularization. *Semin Vasc Surg.* 2017 Dec;30(4):106-112.
3. Piccin A, Rebullà P, Pupella S, Tagnin M, Marano G, Di Pierro AM, Santodirocco M, Di Mauro L, Beqiri L, Kob M, Primerano M, Casini M, Billio A, Eisendle K, Fontanella F. Impressive tissue regeneration of severe oral mucositis post stem cell transplantation using cord blood platelet gel. *Transfusion.* 2017 Sep;57(9):2220-2224.
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5. Longo V, Rebullà P, Pupella S, Zolla L, Rinalducci S. Proteomic characterization of platelet gel releasate from adult peripheral and cord blood. *Proteomics Clin Appl.* 2016 Aug;10(8):870-82.
6. Rebullà P, Pupella S, Santodirocco M, Greppi N, Villanova I, Buzzi M, De Fazio N, Grazzini G; Italian Cord Blood Platelet Gel Study Group (see Appendix 1). Multicentre standardisation of a clinical grade procedure for the preparation of allogeneic platelet concentrates from umbilical cord blood. *Blood Transfus.* 2016 Jan;14(1):73-9.
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9. Parazzi V, Lazzari L, Rebullà P. Platelet gel from cord blood: a novel tool for tissue engineering. *Platelets.* 2010;21(7):549-54.



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BAG  
D

**BIONEST Transfer Bag**

### *Intended use*

Preparation and administration of cord blood platelet gel

### *Fields of application*

• Wound healing

### *Advantages of the BioNest system for cord blood fractionation*

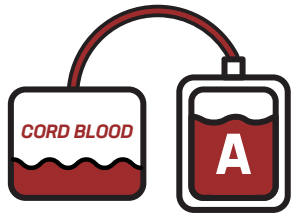
• pre-assembled set of A-B-C bags  
(reduced workload and sterile connection costs)

• easy opening of bag D  
(lower risk of contamination, improved administration)

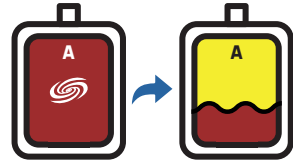
### DISCLAIMER

This medical device is intended for use by qualified health personnel only. The present information does not constitute and does not intend to constitute recommendations for medical treatment. The company assumes no responsibility for improper use of the device and for incorrect application of the instructions contained in the package leaflet. The use of blood components is the responsibility of the qualified health personnel.

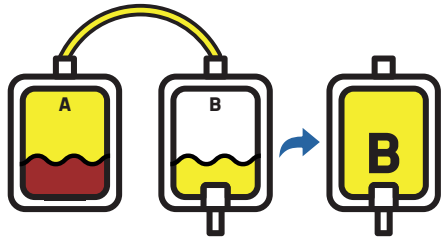
MADE IN ITALY



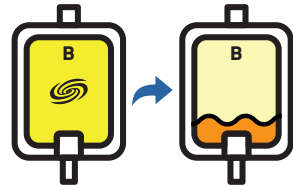
**1** CB is aseptically transferred from the original collection bag into bag "A" by sterile connection



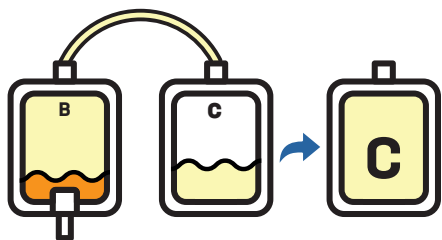
**2** Bag "A" is centrifuged with bags "B" and "C" at low speed to sediment the red blood cells and to concentrate the white blood cells into the buffy coat and the platelets into the supernatant platelet rich plasma (PRP)



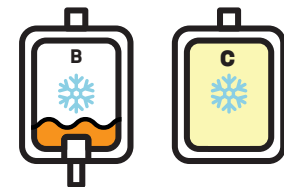
**3** Transfer of PRP into bag "B", sealing, separation and storage at 2-6 °C of bag "A", which contains red blood cells



**4** High speed centrifugation of "B-C" bags



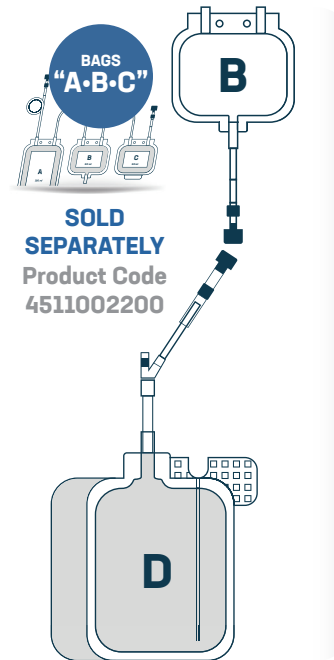
**5** Transfer platelet-poor plasma (PPP) into bag "C" except the volume necessary to ensure a predefined concentration of the platelets concentrated in the bottom of bag "B" (for example: 1 million per microliter)



**6** Sealing, separation and freezing of "B" and "C" bags at temperatures below -25 °C

**INFORMATION**  
for BioNest transfer bag users

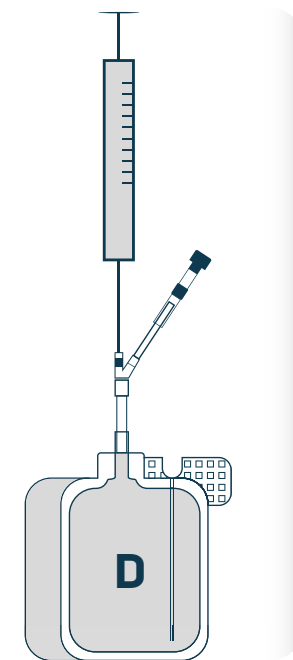
**CORD BLOOD PLATELET GEL**  
preparation and administration



BAGS "A-B-C"  
**SOLD SEPARATELY**  
Product Code 4511002200

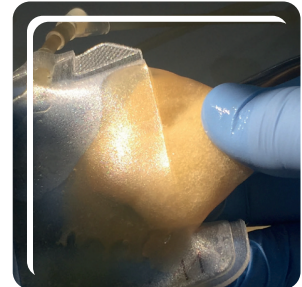
**1**

**Sterile connection and transfer**



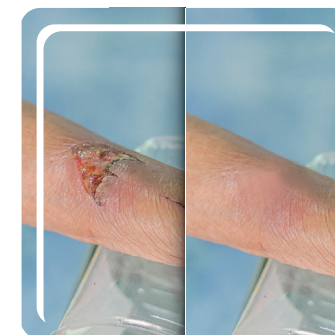
**2**

**Add 1/3 vol. of 10% Ca gluconate**



**3**

*Top: Easy opening: tear along side engraving*  
*Bottom: CBPG extraction*



Project design by: Giroidea.it - Mi - Italy

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