MCS®+: Multicomponent Collection System

The only true multicomponent system







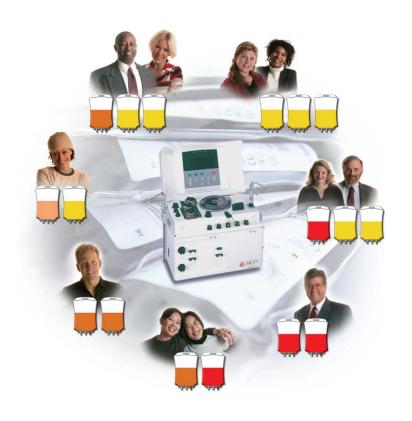
Applications

Component donations

- Platelets
- Red blood cells
- Plasma
- All blood component combinations

Patient treatments

- Stem cells
- Plasma exchange
- Autologous red blood cells
- Therapeutic cell removal







Multicomponent collection

MCS + + automated Platelet Collection

+ automated Red Cell Collection

+ automated Plasma Collection

+ combinations of all above

+ therapeutic applications



MCS®+: Multicomponent Collection System

Key advantages

- Lightweight at 27.5 kg
- Reliable
- Good product quality
- Real multicomponent device
- Fast set-up and tear-down
- No secondary component processing
- Minimal operator involvement and time
- Quiet device



Applications

- Plasma is collected to be transfused(FFP):
 - Substitution of coagulation factors and plasma proteins in cases of massive bleeding, transplantation, clotting disorders, burns
- Plasma is collected for industrial fractionation (PPP):
 - Most often plasma is fractionated and sold to pharmaceutical companies as raw material for manufacture into biopharmaceuticals.
- Platelets are collected to be transfused:
 - Patients undergoing surgery, chemotherapy
 - Hemophilia, bleeding disorders
- Red Blood cells are collected to be transfused:
 - Severe hemorrhage (surgery, emergency)
 - Anemia, Thalassemia
- Stem cells are collected to be transfused:
 - Leukemia treatments, repopulate the whole bone marrow and grow new blood cells after chemotherapy
- Plasma exchange is done on a patient:
 - Removal and replacement of plasma with donor plasma or other fluids in order to treat a variety of diseases eg. Guillain-Barré syndrome or Hyperviscosity syndrome





Plasma applications

Plasma Collection protocols

- PPP&FFP, Platelets poor Plasma & Fresh Frozen Plasma
 - Therapeutic plasma collection with closed sets (623E, 622HS, 623HS)
 - Fractionation plasma collection with pre-connected or bundled sets (627, 792, 782, 782HS-P, 792P, 625B, 625HS, 690, 692, 699, SC690, SC692, 620, 620E)
 - Utilization of standard BMB or HS core bowl.
 - Optional Saline compensation





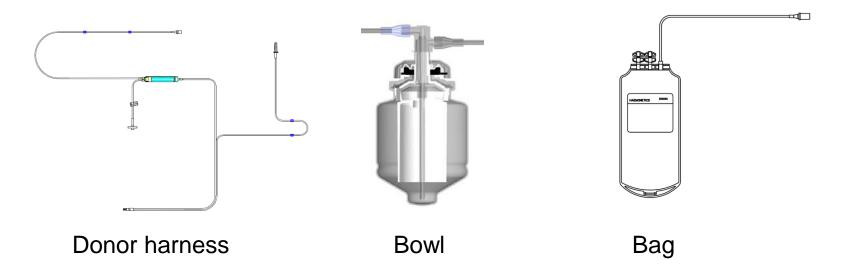
Unbundled sets → The customer creates his own set (Commercial plasma collection):

Needle

Donor harness

Centrifuge bowl

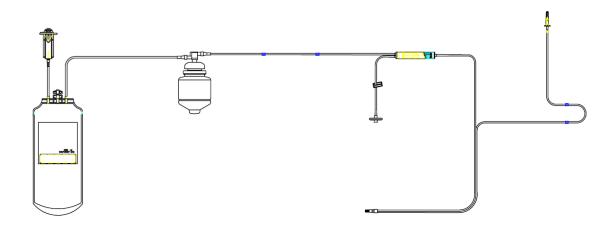
Collection part (bottle or bag(s))





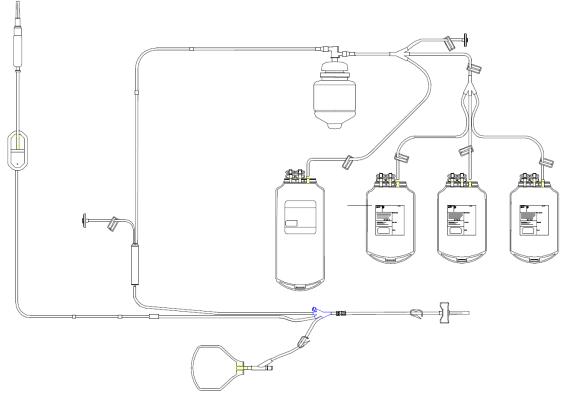


Pre-connected sets → Sets are connected but not "closed" (PPP or FFP):





Closed sets → Sets are connected and closed: They contain bacterial filters on the connections (Fresh frozen plasma collection):







Platelet applications

Platelets Collection protocols

- LDP, Leukodepleted platelets (994CF-E)
 - Standard Platelets collected in plasma
 - Concurrent PPP plasma collection and Saline compensation
 - Continuous Platelet Leukocyte filtration



- LDPRBC, Leukodepleted platelets and Red Cells Collection (946FF)
 - Standard Platelets collected in plasma
 - 1 unit of RBC re-suspended in SAG-M
 - Concurrent PPP plasma collection and Saline compensation
 - Continuous Platelet Leukocyte filtration

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Manual Red Cells leukocyte filtration



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Platelet applications

Platelets Collection protocols

- UPP, Universal platelets protocol
 - Standard Platelets collected in plasma (997CF-E)
 - Concentrated Platelets collected in additive (999F-E)
 - Concurrent RBC re-suspended in SAG-M (949FF-E)
 - Concurrent PPP plasma collection
 - Optional Saline compensation (997CF-E)
 - Continuous Platelet Leukocyte filtration
 - Manual Red Cells leukocyte filtration (949FF-E)





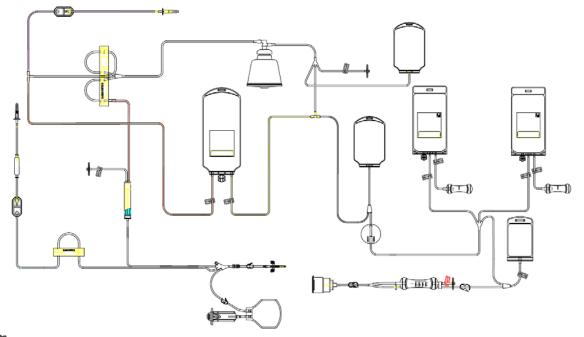
Disposable sets for platelets collections:

99XCF-E-BA

BA → Bacterial sampling system

9 → MCS+ disposable set

CF → Continuous filtration for platelets





Red Cells applications

Red Blood Cells Collection protocols

 SDR&TAE, Single Donor Red Blood Cells & Therapeutic Autologous Erythropheresis.

SDR

- 2 units of Buffy Coat removed RBC (942)
- 2 units of Leukodepleted RBC (948F)

TAE

- 3 units of buffy coat removed RBC (944)
- Red Cells re-suspended in SAG-M
- Optional Saline compensation



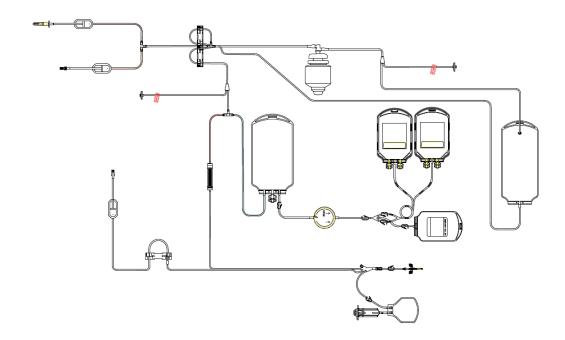
Red Cells applications

Red Blood Cells and Plasma Collection protocol

- RBCP+, Red Blood Cells & Plasma
 - 1 unit of Buffy Coat removed RBC and 2 units of plasma (941)
 - 1 unit of Leukodepleted RBC and 2 units of plasma (947F)
 - Red Cells re-suspended in SAG-M
 - Optional Saline compensation



Disposable sets for red cell collections: 94XFF $9 \rightarrow MCS+$ disposable set $4 \rightarrow Red cell applications$ 94XFF $F \rightarrow Filter for platelets$





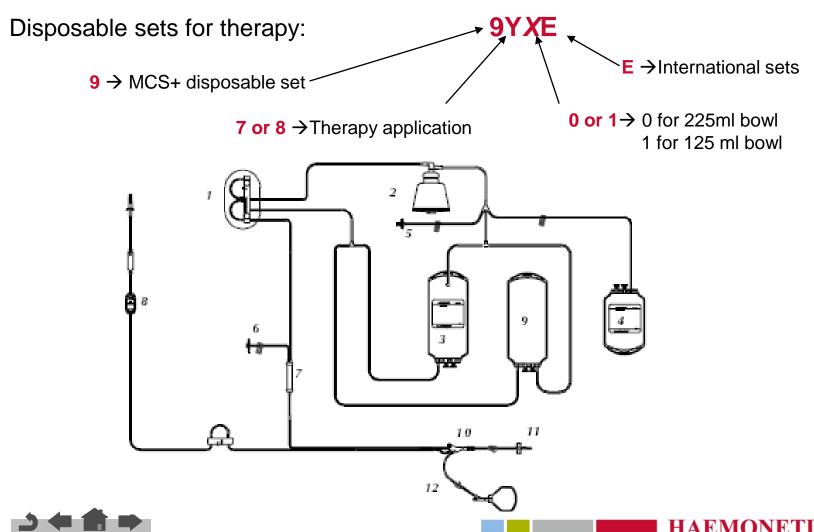


Therapeutic applications

Therapeutic protocol

- TPE, Therapeutic Plasma Exchange protocol (980E, 981E)
 - Extract plasma from a patient
 - Substitution fluid monitored by the device
 - 2 type of bowls 125ml, 225ml
- PBSC, Peripheral Blood Stem Cells (970E, 971E)
 - Stem Cells (PBSC): collects a mononuclear cell concentrate (MNC) used for peripheral stem cell transplantations.
 - Therapeutic Platelet Reductions (TPR): reduce the platelet count of patients with abnormally high platelet counts
 - Therapeutic Leukocyte Reductions (TLR): reduce the white cell count of patients with abnormally high white cell.
 - Optional Saline compensation





Questions

