Spectra Optia® APHERESIS SYSTEM

Advancing Therapeutic Apheresis and Cell Therapy to the Next Level of Patient Care
Mononuclear Cell (MNC) collection with the Spectra Optia Apheresis System

<table>
<thead>
<tr>
<th>Feature*</th>
<th>Potential Impact</th>
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| Operator Choice and Flexibility | Versatile software designed for a wide range of operator skill levels and device interaction preferences  
Minimized operator interaction allows more focused time with patients |
| Intuitive Graphical User Interface (GUI) | Simple data entry and screen navigation with enhanced touch-screen operator instructions for streamlined procedure management |
| Consistent Results | Automated Interface Management (AIM) system produces consistent results through interface stability |
| Reliable Performance | High CD34+ collection efficiency, optimized procedure time and product purity |
| Low RBC Content | Desirable for extracorporeal photopheresis procedures¹  
Reduces risk of ABO mismatch² |
| Low Platelet Content | Reduces risk of patient exposure to transfused products (post collection)³  
Less clumping or clotting at reinfusion or transfusion⁴  
May increase safety for donors and allow collection from patients with low platelet counts³ |
| Low Granulocyte Content | May result in fewer adverse events after infusion⁵  
Low cellular contamination requires less dilution which decreases cryopreservation volume, reducing DMSO exposure |
| Collect Specific Product Volume | Allows operator to choose collected product volume to ensure maximum volume is not exceeded |

The Spectra Optia Collection Set

<table>
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<tr>
<th>Feature</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Low ECV (191 mL)</td>
<td>Accommodates small patients and impacts patient comfort and safety. Significantly lower than COBE® Spectra White Blood Cell set (285 mL)</td>
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<td>Functionally Closed</td>
<td>Reduces risk of microbial contamination of product</td>
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<td>Incorporated Sample Bulbs</td>
<td>Allows samples of collected product to be taken while maintaining a functionally closed set</td>
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<td>Pre-Attached Diversion Bag</td>
<td>Diverts the “skin plug” (from venipuncture) potentially reducing the chance of contamination in the final stored product</td>
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| Integrated Tubing Cassette | Simple, fast and easy to load  
Minimizes training time |
| Smaller, Compact Packaging | Reduces storage requirements |
| Color-Coded Components | Reduces opportunity for error |

*Data on file
I: Interface established

- The AIM system quickly establishes blood interface layer at the collect port
- White blood cell layer accumulates
- AIM system senses the presence of cells and automatically adjusts the interface to optimize the collection

II: Chamber fills

- Pumps automatically adjust to ensure that red blood cells, granulocytes, platelets and plasma are continually returned to patient
- Target cells accumulate in the chamber
- Innovative chamber technology – designed to reduce non-target cells in final product

III: Collection begins

- Pumps and valves automatically adjust to flush the chamber with plasma, and target cells flow into the collection bag
- Pumps and valves automatically adjust to re-establish interface and entire process is repeated
The support you expect

CaridianBCT supports the Spectra Optia system with experienced therapeutic apheresis and cell therapy clinical and technical support. Please contact your CaridianBCT representative for additional information.

This product information is for European/Asia Pacific distribution. The MNC protocol is not available for sale in the U.S. or Canada.

References