**IN PRACTICE**

12 major hospitals across Canada
7,402 patients undergoing cardiac surgery
- Intervention group of 3,847 patients
- Control group of 3,555 patients

**RESULTS:** Using Plateletworks as an integrated transfusion algorithm reduced RBC transfusions by 13%, platelet transfusions by 24% and reduced episodes of major bleeding.


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**Cardiopulmonary Bypass**

100 consecutive patients undergoing CPB

Plateletworks Collagen “may be useful for early identification of patients at risk for high blood loss and for guiding transfusion therapy in bleeding patients.”


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**Comparison to Aggregometry**

48 patients on clopidogrel and aspirin prior to percutaneous coronary intervention

Data demonstrated a good correlation between Plateletworks and LTA. Plateletworks is easier and faster and should be used on patients undergoing PCI on antiplatelet therapy.


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Try Plateletworks yourself. Call toll free 800-231-5663 or visit www.helena.com

5860 Plateletworks ADP Kit
25 ADP Agonist Reagent Tubes
25 EDTA Baseline Tubes

5862 Plateletworks Collagen Kit
25 Collagen Agonist Reagent Tubes
25 EDTA Baseline Tubes

5864 Plateletworks Arachidonic Acid Kit
25 Arachidonic Acid Agonist Reagent Tubes
25 EDTA Baseline Tubes

5850 Plateletworks Combo-15 Kit
15 ADP Agonist Reagent Tubes
15 Collagen Agonist Reagent Tubes
15 EDTA Tubes Baseline Tubes

5852 Plateletworks Combo-25 Kit
25 ADP Agonist Reagent Tubes
25 Collagen Agonist Reagent Tubes

5854 Plateletworks Combo-10 Kit
10 ADP Agonist Reagent Tubes
10 Collagen Agonist Reagent Tubes
10 Arachidonic Acid Agonist Reagent Tubes
10 EDTA Baseline Tubes
The Mindray BC 3600 cell counter calculates % aggregation and inhibition automatically.

**PLATELET TESTING**

**AS EASY AS ONE, TWO, THREE... WITH**

**Simple and Effective Platelet Function Test**

- Uses traditional ADP, Collagen and Arachidonic Acid agonists
- Fast results with functional platelet count plus aggregation/inhibition % activity
- Reduces unecessary platelet usage
- Detects effects of anti-platelet therapies
- Excellent pre-surgical and trauma screen
- Favorable reimbursement

**With Plateletworks whole blood bedside platelet aggregation assay, rapid screening of platelet dysfunction can be achieved in under 10 minutes with any impedance cell counter. No specialized training or equipment is needed.**

### Platelet Aggregation Results

<table>
<thead>
<tr>
<th>Collagen</th>
<th>ADP</th>
<th>AA</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>No significant effects of anti-platelet drugs or factors</td>
</tr>
<tr>
<td>Abnormal</td>
<td>Abnormal</td>
<td>Normal</td>
<td>Probable ADP inhibitor or anti-llb/llla present</td>
</tr>
<tr>
<td>Abnormal</td>
<td>Abnormal</td>
<td>Abnormal</td>
<td>Probable ADP inhibitor or anti-llb/llla with probable COX-1 inhibitor</td>
</tr>
<tr>
<td>Abnormal</td>
<td>Normal</td>
<td>Abnormal</td>
<td>Probable COX-1 inhibitor</td>
</tr>
<tr>
<td>Abnormal</td>
<td>Normal</td>
<td>Normal</td>
<td>Probable fibrinolysis or adhesion defect</td>
</tr>
</tbody>
</table>

**Total Functioning Platelet Count Guidelines**

<table>
<thead>
<tr>
<th>Patient/Procedure</th>
<th>PLT Count</th>
<th>Recommend PLT Transfusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac Surgery with Bypass</td>
<td>Non-Thrombocytopenic</td>
<td>No</td>
</tr>
<tr>
<td>Hospitalized Adult Patients</td>
<td>&lt;10 x 10^9 cells/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Venous Catheter Placement</td>
<td>&lt;20 x 10^9 cells/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Diagnostic Lumbar Puncture</td>
<td>&lt;50 x 10^9 cells/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Major Nonneuraxial Surgery</td>
<td>&lt;50 x 10^9 cells/L</td>
<td>Yes</td>
</tr>
</tbody>
</table>


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**PLATELETWORKS**

**RESULTS**

**EDTA Baseline Tubes Collagen ADP Arachidonic Acid**

Add 1 mL fresh whole blood to the tubes

Perform cell count on each tube

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