Individualized Heparin Management
RIGHT FOR A COMPLEX ENVIRONMENT
Sicker, more complex patients. Variable heparin potency. Increasing urgency around the need to reduce blood product use. This complex environment adds up to the need for more precise, individualized heparin management.
ACT alone is no longer enough

When ACT alone is used, a complete picture of a patient’s heparin concentration during surgery is not visible. In fact, with so many variables clouding the view, one can easily be misled by ACT into over- or under-dosing a patient—potentially causing significant clinical and financial ramifications.¹ ²

**FINANCIAL**
- Blood products associated with transfusions
- Longer hospital stays
- Return visits to the OR

**CLINICAL**
- Patient exposure to blood products
- Factors associated with difficult recoveries
- Increased morbidity
Greater visibility = better management

Medications, supplements, comorbidities and other factors can cause significant differences in the way individual patients respond to heparin. ACT alone does not account for these differences. The HMS Plus System HDR test reveals how two patients of a similar make-up respond very differently to the same heparin dose.

The HMS Plus System allows for improved precision throughout the care continuum from:

- Initial accurate, individualized heparin dosing
- Precise management of heparin levels during a case
- Accurate heparin neutralization at the end of the case

Individualized Heparin Management with the HMS Plus System delivers significantly different—and better outcomes—than ACT alone.³

The HMS Plus System helps to:

- Preserve patient clotting factors
- Reduce blood product usage
- Improve outcomes and lower costs

Quantitative Heparin Measurement vs. ACT

<table>
<thead>
<tr>
<th></th>
<th>(Control) ACT</th>
<th>HMS</th>
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<tbody>
<tr>
<td><strong>HEPARIN</strong></td>
<td>462 ± 114</td>
<td>612 ± 147</td>
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<tr>
<td><strong>PROTAMINE (mg)</strong></td>
<td>0.94 ± 0.21</td>
<td>0.70 ± 0.64</td>
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<tr>
<td><strong>% TRANSFUSED</strong></td>
<td>33%</td>
<td>17%</td>
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<tr>
<td><strong>CLOSURE TIME (min)</strong></td>
<td>102 ± 34</td>
<td>92 ± 32</td>
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n = 254 patients
Experience the benefits of Individualized Heparin Management by scheduling an evaluation of the HMS Plus System for your facility. Contact your local sales representative.
References:


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