Point-of-care glucose testing can be challenging in the hospital setting. Interfering substances such as hematocrit, drugs, and elevation of pathophysiological and other endogenous metabolites have all been shown to interfere with the measurement of glucose testing. Nova’s StatStrip glucose monitoring system is designed to measure and eliminate the effects of abnormal hematocrit, electrochemical interferences, and endogenous metabolites to provide accurate results.

The following list of citations are from peer-reviewed publications and presentations delivered at national and international meetings where the performance of StatStrip Glucose has been evaluated in a variety of critical care settings and diverse patient populations.

Over 200 studies of analytical performance have been published to date. No clinical interferences have been found.

These studies were conducted at some of the most prestigious hospitals and diabetes centers in the world and prove that Nova Biomedical’s StatStrip glucose sensor technology significantly improves accuracy by eliminating hematocrit and other interferences.

Study sites include many highly respected names in the medical community:
- Mayo Clinic College of Medicine, Rochester, Minnesota
- The Johns Hopkins University School of Medicine, Baltimore, Maryland
- University of Toronto Sunnybrook Health Sciences Centre, Toronto, Canada
- Addenbrooke’s Hospital, Cambridge University Hospitals, United Kingdom
- University Hospital of Wales, Cardiff, Wales
- Isala Klinieken, Zwolle, Netherlands; Saint-Pierre Hospital, Brussels, Belgium
- Saitama Medical University, Saitama, Japan

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   - Poster session presented at the American Association of Clinical Chemistry, Critical and Point-of-Care Testing, Barcelona, Spain, September 2008


8. Creed GM. Can a new level of clinical accuracy be achieved with POC glucose meters in an ICU setting? Poster session presented at the meeting of the European Society of Intensive Care Medicine, Vienna, Austria, October 2009.

9. Creed GM. Nova StatStrip®: Could this device be used to effectively implement tight glycaemic control and triage blood glucose and insulin management in critical illness (device evaluation compared to Roche Cobas b221 reference methodology)? Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Innsbruck, Austria, June 2009.


18. Godwin Z, Bockhold J, Bomze L, Tran N. Hematocrit effects leads to inadequate glycemic control and insulin dosing in adult burn patients. Poster session presented at the meeting of the American Association for Clinical Chemistry, Los Angeles, CA, July 2012.


23. Kaneda T, Urimoto G, Suzuki T. Interference by some drugs used during cardiopulmonary-bypass (CPB) in open heart surgery on three glucose measurement devices. Poster session presented at the meeting of the American Society of Anesthesiologists, Chicago, IL, October 2011.


• Poster session presented at the meeting of the Society of Critical Care Medicine, Houston, TX, February 2012.


   • Poster session presented at the meeting of the Society of Critical Care Medicine, Honolulu, HI, February 2008.


   • Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain, September 2008.


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44. Adlan NA, De Toress M, Barlas M, Hussain N, Owaidah TM. A method comparison study to compare major-market point-of-care (POC) hospital glucose meters at King Faisal Specialist Hospital & Research Centre, Kingdom of Saudi Arabia. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey, June 2014.


46. Bigot E, Guérin M, Orsennon J, Dudouet D. Influence of pO2 and hematocrit values on glycaemia measured by point of care testing (POCT) glucometers. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany, May 2011.


**Neonatal Critical and Intensive**

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71. Ivanov A. Comparison of hospital glucose meters in neonatal care unit. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Prague, Czech Republic, October 2012.


Neonatal and Pediatric Clinical


**Diabetes**


- Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany, May 2011.


- Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria, February 2014.


- Poster session presented at the meeting of the European Joint Congress, Dubrovnik, Croatia, October 2012.


**Dialysis**

113. Bewley B, O’Rahilly S, Tassell R. Improved POC meter accuracy for monitoring and managing glucose levels in dialysis patients. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Innsbruck, Austria, June 2009.


**Analytical**

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• Poster session presented at the meeting of the Society of Critical Care Medicine, Houston, TX, February 2012.


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