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Nova StatStrip® Glucose Bibliography

Point-of-care glucose testing can be a challenge 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 in handheld glucose meters. Nova’s StatStrip glucose monitoring system was designed to measure and eliminate the effects of abnormal hematocrit, electrochemical interferences, and endogenous metabolites. The following list comprises peer-reviewed publications and presentations delivered at national and international meetings that evaluate the performance of StatStrip Glucose in a variety of settings and patient populations. Between 2007 and 2014, 138 studies of analytical performance have been published. 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 dramatically improves accuracy by eliminating hematocrit and other interferences. Study sites include: 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; Addenbrook’s Hospital, Cambridge University Hospitals, United Kingdom; University Hospital of Wales, Cardiff, Wales; Isala Klinieken, Zwolle, Netherlands; Saint-Pierre Hospital, Brussels, Belgium; and Saitama Medical University, Saitama, Japan.

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Adult Critical and Intensive

1. Bhansali, D., Chima, H. S., Peretti, A. R., & Ramarajan, V. (2009). Comparative testing for better glycemic control. *Lab Medicine*, 40, 478–481. doi:10.1309/LMGKXR9UY79FRKFS
2. Calderwood, R., Bailie, R., McBride, P., Scott, K., & Ryan, M. (2011, May). *Impact of analytical performance of point of care (POCT) blood glucose meters on application of a 'tight glycaemic control' (TGC) protocol in an intensive care unit setting*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany.
3. Castaño López, M. Á., Fernández de Liger Serrano, J. L., Robles Rodríguez, J. L., & Márquez Márquez, T. (2012). Validation of a glucose meter at an intensive care unit. *Endocrinología y Nutrición*, 59, 28–34. doi:10.1016/j.jendoen.2011.08.003
4. Chan, P. C., Rozmanc, M., Seiden-Long, I., & Kwan, J. (2009). Evaluation of a point-of-care glucose meter for general use in complex tertiary care facilities. *Clinical Biochemistry*, 42, 1104–1112. doi:10.1016/j.clinbiochem.2009.03.023
5. Chan, P. C., Rozmanc, M., Seiden-Long, I., & Kwan, J. (2008, September). *Evaluation of a point-of-care (POC) glucose meter suitable for use in complex tertiary care facilities*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.
6. Creed, G. M. (2009, June). *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.
7. Creed, G. M. (2009, October). *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.
8. Creed, G. M., Fox, T. J., & Beale, R. J. (2011). Point-of-care glucose monitoring in a critical care setting: Evaluation of a new maltose independent chemistry Accu-Chek INFORM II, Nova StatStrip, and Abbott Medisense PXP. *Point of Care*, 10, 7–16. doi:10.1097/POC.0b013e318207813b
9. DuBois, J. A., Lyon, M. E., Lyon, A. W., Slingerland, R. J., Fokkert, M., Roman, A., ... Sartori, D. (2014, September). *Comparison of four models for assessing insulin dosing error when a blood glucose monitoring system is used in various patient populations*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
10. Fokkert, M., Slootstra, J., Dollamoursid, R., Witteveen, C., Muller, W., & Slingerland, R. (2014, September). *Traceability and accuracy evaluation of POC StatStrip glucose meter and ABL 835 blood gas analyzer to a primary ID-GCMS aligned reference measurement procedure*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
11. Germagnoli, L., Bonini, P., DuBois, J. A., Bierens de Haan, J., & Tartarotti, C. (2009). Suitability assessment of a new bedside interference-free glucose system for use in critical care when compared with current technology. *Point of Care*, 8, 96–100. doi:10.1097/POC.0b013e3181b19170
12. Germagnoli, L., Bonini, P., DuBois, J. A., Bierens de Haan, J., & Tartarotti, C. (2008, September). *Suitability assessment of a new bedside interference free glucose system for use in critical care when compared to current technology*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.
13. Godwin, Z., Bockhold, J., Bomze, L., & Tran, N. (2012, July). *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.

37. Mohn, B. (2010). Evaluation of the Nova Biomedical StatStrip glucose meter. *New Zealand Journal of Medical Laboratory Science*, 64(1), 18–21. Retrieved from <http://www.nzimls.org.nz/nzimlsjournal, article,,7,37, Evaluation+of+the+Nova+Biomedical+StatStrip+glucose+meter..html>
38. Musholt, P., Scherer, S., Schöndorf, T., Younessi, A., DuBois, J., Aust, P., ... Pfützner, A. (2008, April). *Genauigkeit des blutzuckermesssystems StatStrip im vergleich zu anderen messsystemen und zu einer standard-labormethode [Comparison of the accuracy of the blood glucose monitoring system StatStrip compared to other measuring systems and to a standard laboratory method]*. Poster session presented at the meeting of the German Diabetes Association, Munich, Germany.
39. Pfützner, A., Harzer, O., Musholt, P. B., Scherer, S., Löbig, M., & Forst, T. (2009). Performance of blood glucose measurement systems influenced by interfering substances. *Diabetes Stoffwechsel und Herz*, 18, 387–392.
40. Pfützner, A., Musholt, P., Scherer, S., Löbig, M., Younessi, A., DuBois, J., ... Forst, T. (2008). Interference of hematocrit and maltose plasma concentrations on the accuracy of five different blood glucose measurement systems [Abstract]. Retrieved from http://professional.diabetes.org/Abstracts_Display.aspx?TYP=1&CID=70769
41. Pollet, J., Goudable, J., & DuBois, J. A. (2008). Evaluation d'un nouveau lecteur de glycémie intégrant une correction automatique de l'hématocrite [Evaluation of a new blood glucose meter incorporating an automatic correction of the hematocrit]. *Spectra Biologie*, 64(Janvier – Février – Mars), 73–76.
42. Rao, L. V., Jakubiak, F., Sidwell, J. S., Winkelman, J. W., & Snyder, M. L. (2005). Accuracy evaluation of a new glucometer with automated hematocrit measurement and correction. *Clinica Chimica Acta*, 356, 178–183. doi:10.1016/j.cccn.2005.01.027
43. Schöndorf, T., Forst, T., & Pfützner, A. (2011, May). *Interferents in glucose determination do not influence the hospital POC glucose meter StatStrip in accuracy and precision of blood glucose measurement*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany.
44. Simpson, P. A., Tirimacco, R., & Tideman, P. A. (2009, September). *Evaluation of four hospital glucose meters*. Poster session presented at the meeting of the Australasian Association of Clinical Biochemists, Brisbane, Australia.
45. Slowinska-Solnica, K., Kapusta, M., Gawlik, K., Pawlica, D., Grudzien, U., & Solnica, B. (2013). Analytical evaluation of the StatStrip Xpress and the StatStrip hospital meters as a glucose monitoring system in a SMBG and POCT [Abstract]. *Biochimica Clinica*, 37(SS), S694. Retrieved from <http://www.sibioc.it/bc/numero/bcnum/132>
46. Smith, G., McNeil-Szostak, E., Ocrach, G., Rowland, S., & Vargas, R. (2010, September). *RGH's method for evaluation and implementation of point of care bedside glucose (POCTG) monitoring*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
47. Steele, A. N., Godwin, Z., Howes, M., & Tran, N. K. (2014, June). *Extensive evaluation of sample interference on point-of-care glucose meters*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
48. Thomas, A., Sall, S., Blount, N., Perkins, M., Roberts, C., & Williams, R. (2010, September). *Four step validation procedure for evaluating POCT meters*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
49. Tirimacco, R., Siew, L., Simpson, P. A., Cowley, P. J., & Tideman, P. A. (2014). Understanding the hematocrit effect on glucose testing using popular point-of-care testing devices. *Point of Care*, 13, 128-131. doi:10.1097/POC.0000000000000040
50. Tran, N. K., Steele, A. N., Godwin, Z., & Howes, M. (2014, June). *Extensive evaluation of hematocrit on point-of-care glucose meters*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
51. Vanavanan, S., Santanirand, P., Chaichanajarernkul, U., Chittamma, A., DuBois, J. A., Shirey, T., & Heinz, M. (2010). Performance of a new interference-resistant glucose meter. *Clinical Biochemistry*, 43, 186–192. doi:10.1016/j.clinbiochem.2009.09.010

23. Koyama, K., Miyao, H., Ikeda, H., Fukuyama, T., Harashima, N., Tamura, M., ... DuBois, J. A. (2012, February). *Glucose meter total analytical error associated with the hematocrit levels commonly seen in an adult intensive care unit*. Poster session presented at the meeting of the Society of Critical Care Medicine, Houston, TX.
24. Lou, A., & Robinson, V. (2010). Evaluation of Lifescan SureStep Flexx (Lifescan), Roche AccuCheck Inform II (Roche) and Nova Biomedical StatStrip glucose meters [Abstract]. *Clinical Biochemistry*, 43, 776. doi:10.1016/j.clinbiochem.2010.04.009
25. Lyon, M. E., DuBois, J. A., Fick, G. H., & Lyon, A. W. (2010). Estimates of total analytical error in consumer and hospital glucose meters contributed by hematocrit, maltose, and ascorbate. *Journal of Diabetes Science and Technology*, 4(6), 1479–1494. Retrieved from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3005060/?report=classic>
26. Lyon, M. E., DuBois, J. A., Fick, G. H., & Lyon, A. W. (2010, September). *Estimates of total analytical error in consumer and hospital glucose meters contributed by hematocrit, maltose, and ascorbate*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
27. Lyon, M. E., DuBois, J. A., Slingerland, R. J., & Lyon, A. W. (2014, February). *Impact of the comparative method on the outcome of a glucose meter evaluation*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria
28. Lyon, M. E., Fokkert, M., DuBois, J. A., & Slingerland, R. (2014, February). *A mathematical model to determine the impact of non-glucose carbohydrates on the performance of blood gas analyzer glucose methods*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria.
29. Lyon, M. E., Gray, D., Baskin, L. B., DuBois, J. A., & Lyon, A. W. (2010). A mathematical model to assess the influence of hematocrit on point of care glucose meter performance. *Clinical Biochemistry*, 43, 905–909. doi:10.1016/j.clinbiochem.2010.03.008
30. Lyon, M. E., Gray, D., Baskin, L. B., DuBois, J. A., & Lyon, A. W. (2009, November). *Impact of patient hematocrit on glucose meter performance*. Poster session presented at the meeting of the Diabetes Technology Society, San Francisco, CA.
31. Lyon, M. E., Baskin, L. B., Braakman, S., Presti, S., DuBois, J. A., & Shirey, T. (2009). Interference studies with two hospital-grade and two home-grade glucose meters. *Diabetes Technology & Therapeutics*, 11, 641–647. doi:10.1089/dia.2009.0035
32. Lyon, M. E., Baskin, L. B., Braakman, S., Presti, S., DuBois, J. A., & Shirey, T. (2008, July). *Evaluation of a glucose meter with negligible hematocrit or chemical interference*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Washington, D.C.
33. Lyon, M. E., Isbell, T. S., DuBois, J. A., Fokkert, M., Slingerland, R. J., & Lyon, A. W. (2014, February). *A mathematical model to determine the impact of low concentrations of galactose on the performance of glucose meters*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria.
34. Lv, H., Zhang, G., Kang, X., Yuan, H., Lv, Y., Wang, W., & Randall, R. (2013). Factors interfering with the accuracy of five blood glucose meters used in Chinese hospitals. *Journal of Clinical Laboratory Analysis*, 27, 354–366. doi:10.1002/jcla.21611
35. Mackay, L., Clark, T., & Wijeratne, N. G. (2014, September). *Blood glucose measurements in neonates: The importance of getting it right*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
36. Mann, E. A., Pidcoke, H. F., Salinas, J., Wolf, S. E., Wade, C. E., & Holcomb, J. B. (2009). Hematocrit causes the most significant error in point of care glucometers [Letter to the editor]. *Critical Care Medicine*, 37, 1530. doi:10.1097/CCM.0b013e31819d2e8a

14. Hikasa, Y., Egi, M., Kimura, S., Nishie, H., & Morita, K. (2012). Reliability of blood glucose measurement using a novel point-of-care glucometer (Statstrip) in postoperative critically ill patients. Abstract retrieved from <http://www.asaabstracts.com/strands/asaabstracts/abstracthtm.jsessionid=E24AFF0848E9A8D6A063BCF7F3CFF?year=2012&index=8&absnum=3029>
15. Hopf, S., Graf, B., & Gruber, M. (2011). Comparison of point-of-care testing glucose results from intensive care patients measured with network-ready devices. *Diabetes Technology & Therapeutics*, *13*, 1047–1056. doi:10.1089/dia.2011.0051
16. Ivanov, A. (2012, July). *The Nova StatStrip glucose meter evaluation in intensive care unit*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Los Angeles, CA.
17. Kaneda, T., Urimoto, G., & Suzuki, T. (2011, October). *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.
18. Kaneda, T., Urimoto, G., Ando, A., Kan, T., & Suzuki, T. (2010). Evaluation of the accuracy of new glucose meter during cardiopulmonary bypass in open h[e]art surgery. Abstract retrieved from <http://www.asaabstracts.com/strands/asaabstracts/abstract.htm.jsessionid=CCB D902453A273D32F30F822FD74AAD?year=2010&index=8&absnum=589>
19. Karon, B. S., & Bryant, S. K. (2014, September). *Impact of glucose meter accuracy on the efficacy of glycemic control in critically ill patients after cardiovascular surgery*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
20. Karon, B. S., Blanshan, C. T., Deobald, G. R., & Wockenfus, A. M. (2014). Retrospective evaluation of the accuracy of Roche AccuChek Inform and Nova StatStrip glucose meters when used on critically ill patients. *Diabetes Technology & Therapeutics*, *16*, 1–5. doi:10.1089/dia.2014.0074
21. Karon, B. S., Koch, C. D., Wockenfus, A. M., & Brown, J. K. (2009). Accuracy of whole blood glucose measurement when venous catheter blood samples are used on glucose meters. *Diabetes Technology & Therapeutics*, *11*, 819–825. doi:10.1089/dia.2009.0074
22. Koyama, K., Miyao, H., Ikeda, H., Fukuyama, T., Harashima, N., Tamura, M., ... DuBois, J.A. (2012, February). *Evaluation of glucose meter performance in an adult intensive care unit: Comparison of total analytical error versus ISO 15197:2003*. Poster session presented at the meeting of the Society of Critical Care Medicine, Houston, TX.
23. Malic, A., Lyon, M. E., Lyon, A. W., Slingerland, R. J., Fokkert, M., Roman, A., ... DuBois, J. A. (2014, October). *International multi-site evaluation of a hospital POC blood glucose monitoring system in critically ill patients: Assessment of clinical risk using insulin dosing error models*. Poster session presented at the meeting of Werkgroep POCT van de Nationale Commissie Klinische Biologie, Antwerp, Belgium.
24. Mann, E. A., Pidcoke, H. F., Salinas, J., Jones, J., Holcomb, J. B., Wolf, S. E., & Wade, C. E. (2008, February). *Hematocrit effect outweighs other sources of glucometer error in critical care*. Poster session presented at the meeting of the Society of Critical Care Medicine, Honolulu, HI.
25. Roman, A., DuBois, J. A., & Lyon, M. (2011, February). *Improved blood glucose levels achieved in ICU patients using hematocrit corrected glucose meter and blood gas analyzer results*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, London, UK.
26. Roman, A., Hanicq, C., Flament, P., El Mahi, T., Stevens, E., & Vertongen, F. (2008, September). *Comparison of accuracy of a glucometer and a blood gas analyser in an adult ICU: The StatStrip Nova Biomedical fulfils TGC requirements*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.

27. Roman, A., Hanicq, C., Flament, P., El Mahi, T., Vertongen, F., & Stevens, E. (2008, March). *Comparison of accuracy of three point-of-care glucometers in an adult ICU*. Poster session presented at the meeting of the department of Intensive Care Emergency Medicine of Erasme University Hospital, Université Libre de Bruxelles, and the Belgian Society of Intensive Care and Emergency Medicine, Brussels, Belgium.
28. Roman, A., Claus, M., Hanicq, C., Piersoel, V., Flament, P., Stevens, E., ... El Mahi, T. (2009, October). *Comparative evaluation of accuracy of three point-of-care glucometers in an adult ICU*. Poster session presented at the meeting of the European Society of Intensive Care Medicine, Vienna, Austria.
29. Sartori, D., Petrides, A., Crutchfield, C., Soto, L., Berk, L., Baxi, A., ... Clarke, W. (2014, September). *Comparison of the Nova Biomedical StatStrip glucose meter to an IDMS hexokinase glucose method in oncology and renal insufficiency patients – Demonstration of utility in critically ill patients*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
30. Scott, R., Karon, B. S., Griesmann, L., Bryant, S. C., DuBois, J. A., Shirey, T. L., ... Santrach, P. J. (2007, July). *Comparison of four hospital based glucose meter technologies for accuracy, precision, and interference encountered in critically ill patients*. Poster session presented at the meeting of the American Association for Clinical Chemistry, San Diego, CA.
31. Urimoto, G., Kaneda, T., & Suzuki, T. (2011, October). *Is glucose measurement affected by the anesthetics?* Poster session presented at the meeting of the American Society of Anesthesiology, Chicago, IL.
32. Weidner, M. A., & Flenniken, M. (2010, October). *Evaluation of point of care bedside glucose monitors for use in a specialty and transplant hospital*. Poster session presented at the meeting of the Diabetes Technology Society, San Diego, CA.

Adult Clinical

1. Adlan, N. A., De Toress, M., Barlas, M., Hussain, N., & Owaidah, T. M. (2014, June). *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.
2. Al Humaidan, N., Al Hayek, A., Saleh, J., Al Saeed, A., Al Onazi, A., & Subki, S. (2014, June). *Comparison of three point of care meters for accuracy, precision, and interferences at Prince Sultan Military Medical City*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
3. Bigot, E., Guérin, M., Orsonneau, J., & Dudouet, D. (2011, May). *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.
4. Božičević, S., Lovrenčić, M. V., Biljak, V. R., & Medvidović, E. P. (2013, May). *Accuracy of the Nova StatStrip POCT glucose analyzer for classification of fasting hyperglycaemia in high-risk individuals*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Milan, Italy.
5. Caputo, M., Sacconi, G., Fornalè, M., Cenci, B., Raffaelli, A., Vita, G., & Schiesaro, M. (2013, November). *Esperienza di gestione dell'iperglicemia in pazienti ospedalizzati in area internistica [Experience of management of hyperglycemia in hospitalized patients in internal medicine area]*. Poster session presented at the meeting of the Associazione Medici Endocrinologi and the American Association of Clinical Endocrinologists, Bari, Italy.
6. Costa, R. F., Vivé, E. G., Badia, A. R., Corsa, L. L., & Santos, D. P. (2009, October). *Evaluación del glucómetro de uso hospitalario StatStrip (Nova) y estudio comparativo en pacientes ingresados en la uci [Evaluation of hospital use StatStrip glucometer (Nova) and comparative study in patients admitted to the ICU]*. Poster session presented at the meeting of the Congreso Nacional del Laboratorio Clínico, Valencia, Spain.

9. Clausen, D. (2009, September). *Haematocrit interference in blood glucose monitors, a real problem in acute hospital settings*. Poster session presented at the meeting of the Australasian Association of Clinical Biochemists, Brisbane, Australia.
10. Cruthis, S. (2010, September). *Development and use of a methodology for the evaluation and implementation of POCT devices*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
11. de Mol, P., Krabbe, H. G., de Vries, S. T., Fokkert, M. J., Dikkeschei, B. D., Rienks, R., ... Bilo, H. J. (2010). Accuracy of handheld blood glucose meters at high altitude. *PLOS ONE*, *5*, e15485. doi:10.1371/journal.pone.0015485
12. Friederichs, B., Younessi-Sinaki, G., Aust, P., DuBois, J. A., & Wahl, H. G. (2008, September) *Analytical performance of an interference-resistant glucose meter*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.
13. Goudable, J., Pollet, J., & DuBois, J. A. (2008). Inexactitude des lecteurs de glycémie. Correction automatique pour les variations de l'hématocrite et la présence d'interférents exogènes [Inaccuracy of glucose meters. Automatic correction for hematocrit variations and the presence of exogenous interfering components]. *Annales de Biologie Clinique*, *66*, 647–655. doi:10.1684/abc.2008.0279
14. Havelková, E., Dušková, D., Jabor, A., Franeková, J., & Komínková, M. (2008). Testování glukometrů a jejich porovnání [Testing blood glucose meters and their comparison]. *FONS*, *18*(1), 36–45. Retrieved from <http://www.medvik.cz/bmc/view.do?gid=625548&language=en>
15. Herkner, K., Schneider, U., Rabold, T., & Tomasoni, R. (2009, June). *Reliability of glucose meters in hospitals in Austria*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Innsbruck, Austria.
16. Holtzinger, C., Szelag, E., DuBois, J. A., Shirey, T. L., & Presti, S. (2008). Evaluation of a new POCT bedside glucose meter and strip with hematocrit and interference corrections. *Point of Care*, *7*, 1–6. doi:10.1097/POC.0b013e318162f4da
17. Howes, M., Steele, A. N., Godwin, Z., & Tran, N. K. (2014, September). *Comparison of glucose meter performance against three laboratory reference methods: An extensive evaluation*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
18. Isgro, M. A., Morelli, R., Zuppi, C., & Scribano, D. (2014, June). *Does the analytical error in blood glucose monitoring system correlate to clinical risk?* Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
19. Isgro, M. A., Morelli, R., Zuppi, C., & Scribano, D. (2013, February). *Specificity assessment of currently available glucose meters*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria.
20. Karon, B. S., Griesman, L., Scott, R., Bryant, S. C., DuBois, J. A., Shirey, T. L., ... Santrach, P. J. (2008). Evaluation of the impact of hematocrit and other interference on the accuracy of hospital-based glucose meters. *Diabetes Technology & Therapeutics*, *10*, 111–120. doi:10.1089/dia.2007.0257
21. Kelly, B. N., Haverstick, D. M., & Bruns, D. E. (2012). Interference in a glucose dehydrogenase based glucose meter revisited [Letter to the editor]. *Clinica Chimica Acta*, *413*, 829–830. doi:10.1016/j.cca.2012.01.023
22. Koyama, K., Miyao, H., Ikeda, H., Fukuyama, T., Harashima, N., Tamura, M., ... DuBois, J. A. (2012, February). *Estimates of glucose meter total analytical error associated with chemical interferences commonly seen in an adult intensive care unit*. Poster session presented at the meeting of the Society of Critical Care Medicine, Houston, TX.

Dialysis

1. Bewley, B., O’Rahilly, S., & Tassell, R. (2009, June). *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.
2. Bewley, B., O’Rahilly, S., Tassell, R., DuBois, J., & Donald, E. (2009). Evaluation of the analytical specificity and clinical application of a new generation hospital-based glucose meter in a dialysis setting. *Point of Care*, 8, 61–67. doi:10.1097/POC.0b13e3181a4c4f4
3. Bewley, B., O’Rahilly, S., Tassell, R., DuBois, J., & Donald, E. (2008, September). *An evaluation of analytical specificity and clinical application of a new generation hospital based glucose meter in a dialysis setting*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.
4. Galović, R., Baršić, I., & Rogić, D. (2014, June). *Evaluation of maltose interference on hospital-based glucose meters and their accuracy in a peritoneal dialysis context*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
5. Ogawa, T., Murakawa, M., Matsuda, A., Kanozawa, K., Kato, H., Hasegawa, H., & Mitarai, T. (2012). Endogenous factors modified by hemodialysis may interfere with the accuracy of blood glucose measuring device. *Hemodialysis International*, 16, 266–273. doi:10.1111/j.1542-4758.2011.00640.x
6. Perera, N. J., Stewart, P. M., Williams, P. F., Chua, E. L., Yue, D. K., & Twigg, S. M. (2011). The danger of using inappropriate point-of-care glucose meters in patients on icodextrin dialysis [Abstract]. *Diabetes Medicine*, 28, 1272–1276. doi:10.1111/j.1464-5491.2011.03362.x

Analytical

1. Adlan, N. A., De Toress, M., Barlas, M., Hussain, N., & Owaidah, T. M. (2014, June). *Analytical performance study to review the effects of specific substances interference on different glucose meters at King Faisal Hospital and Research Centre, Riyadh/Saudi Arabia*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
2. Ahmad, E. (2014, September). *A method comparison and analytical performance study to assess the performance of two point-of-care glucose meters against the laboratory reference method*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
3. Bewley, B., O’Rahilly, S., Tassell, R., DuBois, J., & Clampitt, R. (2007, June). *Comparison of four hospital based glucose meter technologies for accuracy, precision and interferences encountered in hospitalized patients*. Poster session presented the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Amsterdam, Netherlands.
4. Brouwer, N., & Tegelaers, F. P. (2011). Vergelijking van vier point of care glucose meters met de laboratoriummethode: Correlatie en interferenties [Comparison of four point-of-care blood glucose meters with the laboratory method: Correlation and interferences]. *Ned Tijdschr Klin Chem Labgeneesk*, 36(4), 239–242. Retrieved from <https://www.nvkc.nl/publicaties/tijdschrift-index2011.php>
5. Brouwer, N., & Tegelaers, F. P. (2011, May). *The effect of interfering substances in point of care glucose measurements*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany.
6. Chittamma, A., DuBois, J. A., Shirey, T., Heinz, M., Santanirand, P., Chaichanajareernkul, U., & Vanavanan, S. (2007, June). *Performance of StatStrip® meter*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Amsterdam, Netherlands.
7. Christoph, J., Sander, J., & Kattner, E. (2010, September). *Galactose interference on POCT glucose analysis*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
8. Christoph, J., Malic, A., Sander, J., & Kattner, E. (2010). Galactose-interference on POCT glucose analysis [Abstract]. *Pediatric Research*, 68, 517. doi:10.1203/00006450-201011001-01042

7. Cozzi, L., Tartarotti, C., Bonomo, M., Bellavia, G., Venturelli, G., & Marocchi, A. (2010, October). *An evaluation of the accuracy and reliability of a new generation point of care hospital glucose meter; that corrects for interference, in a general hospital setting*. Poster session presented at the meeting of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology, Rimini, Italy.
8. Fokkert, M., Slingerland, R. J., Muller, W., Lyon, M., DuBois, J. A., Isbell, T. S., & Malic, A. (2014, February). *Traceability bedside glucose monitors: Traceability StatStrip bedside glucose monitor to ID-GCMS and concordance to the clinical laboratory ID-GCMS aligned hexokinase method*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria.
9. Jday-Daly, I., Augereau-Vacher, C., De Curraize, C., Fonfrède, M., Lefevre, G., Lacour, B., & Hennequin-Le Meur, C. (2011). Évaluation multicentrique de la fiabilité de cinq lecteurs de glycémie [Multicenter evaluation of the reliability of five blood glucose monitoring systems]. *Annales de Biologie Clinique*, *69*, 55–61. doi:10.1684/abc.2010.0509
10. Koch, C. D., Wockenfus, A. M., Wangen, T. M., Sievers, B. A., Brown, J. K., & Karon, B. S. (2009). Use of samples from indwelling venous catheters for glucose meter testing [Abstract]. *Clinical Chemistry*, *55*(Suppl. 6), A100.
11. Kost, G. J., Tran, N. K., Louie, R. F., Gentile, N. L., & Abad, V. J. (2008). Assessing the performance of handheld glucose testing for critical care. *Diabetes Technology & Therapeutics*, *10*, 65–71. doi:10.1089dia.2008.0049
12. Pidcoke, H. F., Wade, C. E., Mann, E. A., Salinas, J., Cohee, B. M., Holcomb, J. B., & Wolf, S. E. (2010). Anemia causes hypoglycemia in intensive care unit patients due to error in single-channel glucometers: Methods of reducing patient risk. *Critical Care Medicine*, *38*, 471–476. doi:10.1097CCM.0b013e3181bc826f
13. Rensburg, M. A., Van Oordt, S., Hudson, C., Erasmus, R. T., & Hoffman, M. (2012, October). *Evaluation and performance of StatStrip® glucose meter*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Prague, Czech Republic.
14. Russell, D., & Bohnsack, M. (2010, September). *Evaluation and implementation of the Nova StatStrip bedside glucose monitor for patients undergoing cardiopulmonary by-pass graft surgery (CABG)*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
15. Scandinavian Evaluation of Laboratory Equipment for Primary Health Care [SKUP]. (2013). Nova StatStrip glucose and β -ketone hospital meter system: A report from an evaluation of glucose measurement organized by SKUP (SKUP/2013/85). Retrieved from <http://www.skup.nu/>
16. Schöndorf, T., Gunther-Wahl, H., Steigerwald, U., Langer, C., Forst, T., & Pfützner, A. (2009, November). *A multi-site analytical assessment of a new hospital POC glucose meter for accuracy, precision, correlation, and interferences encountered in hospitalized patients*. Poster session presented at the meeting of the Diabetes Technology Society, San Francisco, CA.
17. Tran, N. K., Godwin, Z. R., Bockhold, J. C., Passerini, A. G., Cheng, J., & Ingemason, M. (2014). Clinical impact of sample interference on intensive insulin therapy in severely burned patients: A pilot study. *Journal of Burn Care & Research*, *35*, 72–79. doi:10.1097/BCR.0b013e31829b3700
18. Tran, N. K., Godwin, Z. R., Bockhold, J. C., Passerini, A. G., Cheng, J., & Ingemason, M. (2013, April). *Clinical impact of sample interference on intensive insulin therapy in severely burned patients: A pilot study*. Poster session presented at the meeting of the American Burn Association, Palm Springs, CA.

Neonatal Critical and Intensive

1. Christoph, J., Siegel, J., & Kattner, E. (2011, May). *Accuracy and reliability of a new generation glucose meter in a neonatal intensive care unit*. Poster session presented at the meeting of the International Congress of Paediatric Laboratory Medicine, Berlin, Germany.
2. Dalisay, A., Seamonds, B., & Gong, Y. (2014). Correlation of glucose methodologies-Nova Biomedical StatStrip versus Radiometer ABL 90. *Point of Care*, *13*, 70–71. doi:10.1097/POC.000000000000018
3. Ivanov, A. (2012, October). *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.

4. Malic, A., Thomas, A., Lyon, M. E., Slingerland, R., Pearson, J., & DuBois, J. A. (2008, October). *Multi-site evaluation of point of care glucose meters in a neonatal intensive care unit*. Poster session presented at the meeting of the 23rd International Symposium on Neonatal Intensive Care, Milan, Italy.
5. Nuntnarumit, P., Chittamma, A., Pongmee, P., Tangnoo, A., & Goonthon, S. (2011). Clinical performance of the new glucometer in the nursery and neonatal intensive care unit. *Pediatrics International*, 53, 218–223. doi:10.1111/j.1442-200X.2010.03214.x
6. Raizman, J. E., Henderson, T., Shea, J., Silverman, S., Redmond, S., Moore, A., ... Adeli, K. (2014, July). *Impact of improved glucose monitoring in the neonatal intensive care unit: An evaluation of the clinical performance of the point of care Nova StatStrip glucose meter*. Poster session presented at the meeting of American Association for Clinical Chemistry, Chicago, IL.
7. Slingerland, R., Muller, W., Fokkert, M., Dollahmoursid, R., Witteveen, C., Munnikhuis, R., ... Donald, E. (2008, September). *The Nova StatStrip® blood glucose meter evaluation: Hematocrit dependency, method comparison, interfering substances and neonatal samples*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.
8. Stahl, D., Herkner, K. R., Pollak, A., & Prusa, A. R. (2010, September). *Performance of the Nova StatStrip point of care blood glucose meter in a neonatal intensive care unit*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Boston, MA.
9. Tendl, K. A., Christoph, J., Bohn, A., Herkner, K. R., Pollak, A. & Prusa, A. (2013). Two site evaluation of the performance of a new generation point-of-care glucose meter for use in a neonatal intensive care unit. *Clinical Chemistry and Laboratory Medicine*, 51, 1747–1754. doi:10.1515/cclm-2012-0864
10. Tendl, K., Christoph, J., Bohn, A., Herkner, K. R., Pollack, A., & Prusa, A. R. (2012, October). *Performance of Nova StatStrip point of care blood glucose meter in a neonatal intensive care unit*. Poster session presented at the meeting of the European Joint Congress, Dubrovnik, Croatia.
11. Thomas, A., Sall, S., Roberts, C., Drayton, M., DuBois, J., & Clampitt, R. (2009). An evaluation of the analytical performance of a new-generation hospital-based glucose meter and an assessment of its clinical reliability in a neonatal care unit. *Point of Care*, 8, 68–73. doi:10.1097/POC.0b013e3181a4c94e
12. Thomas, A., Sall, S., Roberts, C., Drayton, M., DuBois, J., & Clampitt, R. (2008, September). *An evaluation of the analytical performance of a new generation hospital based glucose meter and an assessment of its clinical reliability in a neonatal care unit*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, Barcelona, Spain.

Neonatal and Pediatric Clinical

1. Dietzen, D. J., & Wilhite, T. R. (2007, July). *Evaluation of the Nova StatStrip® blood glucose monitoring system in neonates*. Poster session presented at the meeting of the American Association for Clinical Chemistry, San Diego, CA.
2. Fokkert, M., & Slingerland, R. J. (2014, September). *Performance of Nova StatStrip glucose meter in newborns*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.
3. Fokkert, M., van Dijk, J., & Slingerland, R. (2011, November). *Performance of Nova StatStrip glucose meters in newborn*. Poster session presented at the meeting of the Diabetes Technology Society, Barcelona, Spain.
4. LeSourd, S., Fortune, L., Sanderson, K., Wood, B., Hall, R. W., & Bornhorst, J. A. (2009, July). *Comparative evaluation of three point-of-care glucose meters with neonatal patient samples exhibiting varied hematocrit and triglyceride concentrations*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Chicago, IL.
5. Lockyer, M. G., Fu, K., Edwards, R. M., Collymore, L., Thomas, J., Hill, T., & Devaraj, S. (2014). Evaluation of the Nova StatStrip glucometer in a pediatric hospital setting. *Clinical Biochemistry*. Advance online publication. doi:10.1016/j.clinbiochem.2014.01.004
6. Makaya, T., Memmott, A., & Bustani, P. (2012). Point-of-care glucose monitoring on the neonatal unit. *Journal of Paediatrics and Child Health*, 48, 342–346. doi:10.1111/j.1440-1754.2011.02253.x

7. Nangia, S. (2012). Point of care estimation of blood glucose in neonates. *Indian Pediatrics*, 49(8), 612–613. Retrieved from <http://www.indianpediatrics.net/aug2012/aug-612-613.htm>
8. Ngerincham, S., Piriyanimit, S., Kolatat, T., Inchgarm, L., Kitsommart, R., ... Jeerapaet, K. (2012). Validity of two point-of-care glucometers in the diagnosis of neonatal hypoglycemia. *Indian Pediatrics*, 49(8), 621–625. Retrieved from <http://www.indianpediatrics.net/aug2012/aug-621-625.htm>
9. Wang, L., Sievenpiper, J. L., de Souza, R. J., Thomaz, M., Blatz, S., Grey, V., ... Balion, C. (2013). Hematocrit correction does not improve glucose monitor accuracy in the assessment of neonatal hypoglycemia. *Clinical Chemistry and Laboratory Medicine*, 51, 1627–1635. doi:10.1515/cclm-2012-0436

Diabetes

1. Biljak, V. R., Božičević, S., Lovrenčić, M. V., & Car, N. (2010). Performance of the StatStrip glucose meter in inpatient management of diabetes mellitus. *Diabetologia Croatica*, 39(3), 105–110. Retrieved from <http://www.idb.hr/diabetologia/sitemap.html>
2. Božičević, S., Biljak, V. R., Pavković, P., Milic, V., & Lovrenčić, M. V. (2011, May). *Performance of the StatStrip glucose hospital meter in patients with diabetic nephropathy*. Poster session presented at the meeting of the European Congress of Clinical Chemistry and Laboratory Medicine, Berlin, Germany.
3. Lindquist, K. A., Chow, K., West, A., Pyle, L., Isbell, T. S., DuBois, J. A., ... Nadeau, K. J. (2014, February). *The StatStrip® glucose monitor is suitable for use during hyperinsulinemic euglycemic clamps in a pediatric population*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Vienna, Austria.
4. Lovrenčić, M. V., Biljak, R. V., Božičević, S., & Car, N. (2012, October). *Performance of the StatStrip POCT analyzer in detecting hypoglycaemic episodes in diabetic patients*. Poster session presented at the meeting of the European Joint Congress, Dubrovnik, Croatia.
5. Lovrenčić, M. V., Biljak, R. V., Pape-Medvidović, E., & Božičević, S. (2013, February). *Beyond monitoring: Validation of the StatStrip glucose meter as a diagnostic tool for diabetes mellitus*. Poster session presented at the meeting of Advanced Technologies & Treatments for Diabetes, Paris, France.
6. Lovrenčić, M. V., Biljak, R. V., Božičević, S., Pape-Medvidović, E., & Ljubić, S. (2013). Validation of point-of-care glucose testing for diagnosis of type 2 diabetes. *International Journal of Endocrinology*, 2013, 1–6. doi:10.1155/2013/206309
7. Lovrenčić, M. V., Božičević, S., Biljak, V. R., Marković, I., & Prašek, M. (2014, June). *Diagnosing gestational diabetes mellitus: A new challenging task for the Nova-StatStrip POC glucose analyzer*. Poster session presented at the meeting of the International Federation of Clinical Chemistry and Laboratory Medicine, Istanbul, Turkey.
8. Petersmann, A., Kallner, A., Blaurock, M., & Nauck, M. (2013, October). *Glucose measurements in diagnosis and monitoring of patients with diabetes mellitus: Comparison of assay performance of patient near testing and core-lab methods*. Poster session presented at the meeting of the German Society for Clinical Chemistry and Laboratory Medicine, Dresden, Germany.
9. Rabiee, A., Magruder, J. T., Grant, C., Salas-Carrillo, R., Gillette, A., DuBois, J., ... Elahi, D. (2010). Accuracy and reliability of the Nova StatStrip® glucose meter for real-time blood glucose determinations during glucose clamp studies. *Journal of Diabetes Science and Technology*, 4(5), 1195–1201. Retrieved from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2956821/>
10. Rensburg, M. A., Hudson, C., & Erasmus, R. T. (2014). Evaluation and performance of StatStrip glucose meter. *Point of Care*, 13, 137–141. doi:10.1097/POC.0000000000000037
11. Yamashita, K., Shirai, H., & Kuwa, K. (2014, September). *Comparative analysis of capillary whole blood by 2 blood glucose monitoring systems (BGMS) with venous plasma hexokinase glucose results in patients undergoing an oral glucose tolerance test (OGTT)*. Poster session presented at the meeting of the American Association for Clinical Chemistry, Critical and Point-of-Care Testing Division, San Diego, CA.