


# The CONTOUR<sup>®</sup>NEXT ONE smart meter shown to deliver remarkably accurate blood glucose (BG) readings<sup>1</sup>

The CONTOUR<sup>®</sup>NEXT ONE meter exceeded the minimum accuracy requirements of the EN ISO 15197:2015 standard.<sup>1,2\*</sup>

% of accurate results demonstrated by the CONTOUR<sup>®</sup>NEXT ONE meter according to the EN ISO 15197:2015 standard<sup>1,2\*</sup>

	Study type (n=test results obtained)	BG concentrations	Number of readings within $\pm 0.83$ mmol/L $\blacklozenge$ or $\pm 15\%$ $\bullet$	Number of readings within $\pm 0.55$ mmol/L $\blacklozenge$ or $\pm 10\%$ $\bullet$	Number of readings within $\pm 0.28$ mmol/L $\blacklozenge$ or $\pm 5\%$ $\bullet$
	Laboratory study (n=600)		$< 5.55$ mmol/L $\blacklozenge$ (n=210)	100%	100%
$\geq 5.55$ mmol/L $\bullet$ (n=390)			100%	97.4%	65.9%
Clinical study (n=329)		$< 5.55$ mmol/L $\blacklozenge$ (n=74)	98.6%	97.3%	87.8%
		$\geq 5.55$ mmol/L $\bullet$ (n=255)	99.6%	97.6%	83.9%

Results from an ad hoc analysis of the CONTOUR<sup>®</sup>NEXT ONE meter demonstrated that  $>95\%$  of the total results were within  $\pm 0.47$  mmol/L or  $\pm 8.4\%$  of the YSI reference glucose values.

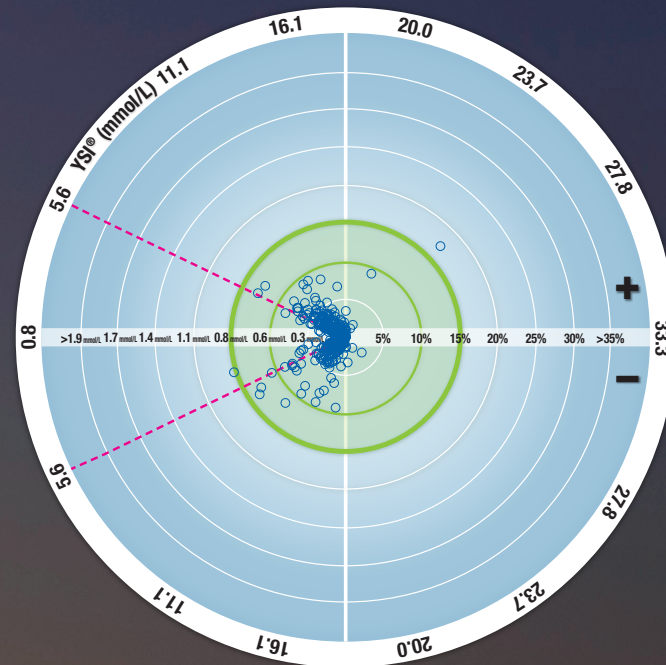
\* 95% of the measured glucose values need to fall within either  $\pm 0.83$  mmol/L of the average measured values of the reference measurement procedure at glucose concentrations  $< 5.55$  mmol/L or within  $\pm 15\%$  at glucose concentrations  $\geq 5.55$  mmol/L. 99% of individual glucose measured values needed to fall within zones A and B of the Consensus Error Grid (CEG) for type 1 diabetes.<sup>2</sup>

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## Radar plot

To obtain reference values for comparison, blood samples were tested in duplicate on a YSI Life Sciences, Inc. (YSI) analyser. Results comparing blood glucose monitoring system (BGMS) readings to YSI reference results were plotted using a radar plot.

A radar plot is a new way to plot the difference between BGMS values and reference instrument values. Points within the outer green circle (bolder line) represent  $\pm 0.83$  mmol/L or  $\pm 15\%$  error for samples with YSI blood glucose concentrations  $< 5.55$  mmol/L and  $\geq 5.55$  mmol/L respectively, and satisfy EN ISO 15197:2015 Section 8 accuracy criteria.



Radar plot of subject-obtained capillary fingertip results compared with YSI reference results for subjects with diabetes in the clinical study.

- All samples (n=329)
- 10–10 zone (0.55 mmol/L or 10%)
- 15–15 zone (0.8 mmol/L or 15%)

Remarkably accurate results. That's illuminating.



**References:** 1. Christiansen M *et al.* Accuracy and user performance evaluation of a new blood-glucose monitoring system in development for use with CONTOUR<sup>™</sup>NEXT test strips. Poster presented at the 15th Annual Meeting of the Diabetes Technology Society (DTS); 22-24 October, 2015; Bethesda, Maryland, USA. 2. International Organization for Standardization. In vitro diagnostic test systems – requirements for blood-glucose monitoring systems for self-testing in managing diabetes mellitus, Geneva, Switzerland, 2013.

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Their diabetes, illuminated  
**Contour**  
**next ONE**  
Blood Glucose  
Monitoring System