



DECISIO

DECISIO HEALTH PATIENT DASHBOARD (INSIGHTIQ™)

USER GUIDE ADDENDUM - PRX

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DECISIO HEALTH, INC.

520 POST OAK BOULEVARD SUITE 600

HOUSTON, TX 77027

Caution: Federal law (U.S.) restricts this device to sale by or on the order of a physician.

PRESSURE REACTIVITY INDEX (PRx)

The Decisio Health, Inc Patient Dashboard (InsightIQ™) includes specialized monitoring for patients with intracranial pressure monitors. The Patient Dashboard will automatically detect patients with this type of monitoring device and display a Pressure Reactivity Index (PRx) graph. This graph can be seen in Figure 1.

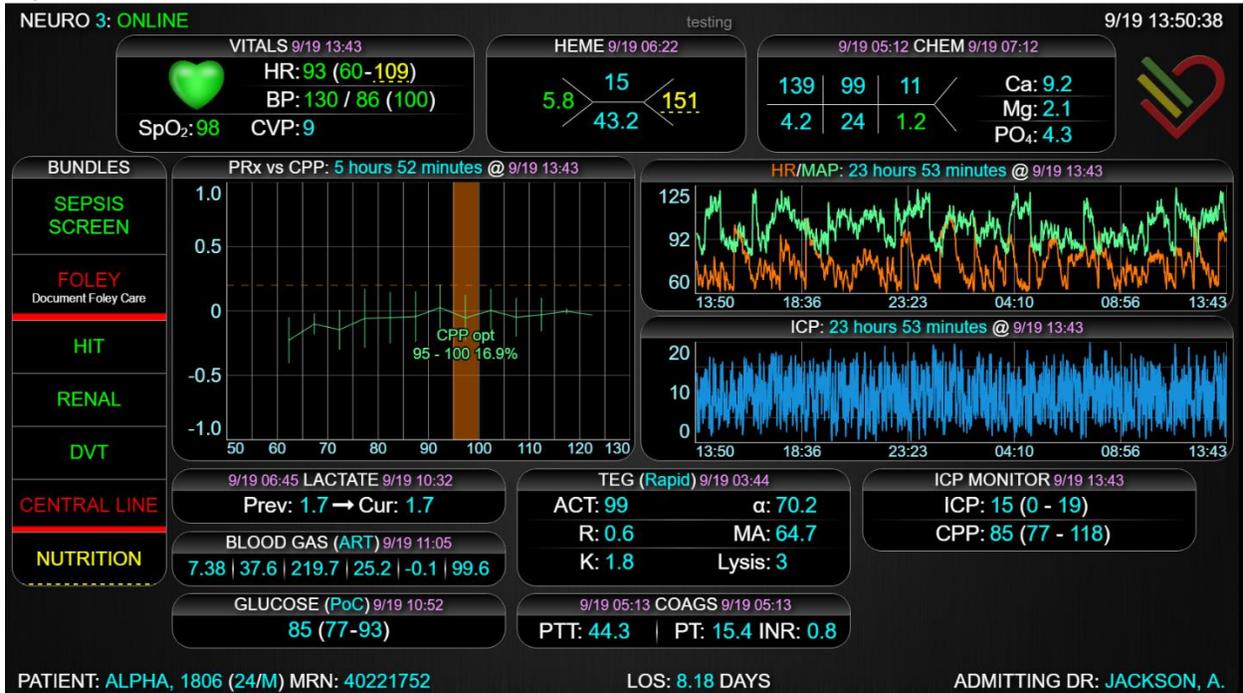


Figure 1. The pressure reactivity index (PRx) curve appears on the left

Briefly, the pressure reactivity index samples the patient’s intracranial pressure (ICP), cerebral perfusion pressure(CPP), and mean arterial pressure (MAP). Using the CPP and the MAP, the graph generates a moving correlation coefficient for a sample of 20 minutes using minute by minute data. It then places each 20 minute moving window into a bin of cerebral perfusion pressures between 50 and 130 in 5 mmHg increments. Each binned range is then averaged and a line is drawn between the points with an error bar (vertical green lines, smaller lines indicate a smaller standard of deviation for the average).¹

The goal of the PRx is to measure an optimal CPP (CPP_{opt}) for the monitored patient. The CPP_{opt} represents the optimal pressure to blood flow and is highlighted with the orange stripe. The percent time a patient has spent in this range is listed next to the CPP_{opt}. The CPP_{opt} will be recalculated every 15 minutes.²

For further information regarding this curve and how to interpret values from it, please review the footnotes.

¹ <http://www.ncbi.nlm.nih.gov/pubmed/18828700>

² <http://www.ncbi.nlm.nih.gov/pubmed/24745709>

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