

SMARTPILOT® VIEW – COCKPIT FOR ANAESTHETISTS



Problem

Up to now, it was not possible to visualise the interactions between analgesics (opioides) and sedatives (hypnotics) and to show the anaesthetist at which stage of the anaesthesia the patient is and will be.

Dräger Medical's SmartPilot® View is a software, which, for the first time, provides a two-dimensional representation of the current and the forecasted course of anaesthesia. Similar to a GPS device, this "map of anaesthesia" shows the anaesthetist at which stage of the anaesthesia the patient is. Like a pilot, the software supports the anaesthetist in optimally guiding the patient through the anaesthesia.

Dräger SmartPilot® View is an assistance system, which supports anaesthetists in making decisions, but does not make decisions for them.

Solution

SmartPilot View displays all information required for controlling the anaesthesia at a glance: In addition to the measured parameters, for example pulse rate and blood pressure, the software also displays the chronological sequence of the applied pharmaceuticals and their effects in a two-dimensional representation. The idea of this representation is based on the cockpit of an aeroplane. This means that the anaesthetist sees precisely – like a pilot – at which calculated stage of the anaesthesia the patient is just now and what the prediction for the immediate future will be.

The technology underlying the SmartPilot® View was developed in a collaboration between Dräger Medical, Lübeck and the University Clinic of Anaesthesiology of the University Hospital Bern with Dr. Peter Schumacher and PD Dr. Martin Luginbühl.

