Dr Peter Smielewski and Dr Marek Czosnyka at the University of Cambridge have developed the intensive care multimodality monitoring software (ICM+®) as a research tool to aid monitoring patients in neurological intensive care.

The software allows collation of the huge array of complex, constantly changing data generated by bedside monitors and presents them in a way that is quickly and easily comprehensible to medical research staff.

Applications (research use only)
- Monitoring of severe head injury & subarachnoid haemorrhage patients
- Diagnostics of subarachnoid haemorrhage, hydrocephalus, benign intracranial hypertension & stroke patients
- Intra-operative & non-invasive cerebral perfusion pressure (CPP) monitoring
- Experimental research

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The Technology
Dr Peter Smielewski and Dr Marek Czosnyka have developed the ICM+® software as a research tool to aid monitoring patients in neurological intensive care.

Key Features
- Collects and integrates high resolution data from a number of bed-side monitors
- Facilitates multimodal bed-side monitoring and real-time analysis of intracranial pressure, arterial pressure, brain oxygenation, blood flow, brain temperature etc.
- Allows calculation of indices of cerebral blood flow autoregulation, vascular reactivity, vascular and cerebrospinal compliance, non-invasive CPP, ‘Optimal CPP’ etc.
- Supports testing of transient hyperaemic response, leg-cuff autoregulation, CO2 reactivity
- Aids integration of physiological monitoring with clinical observations
- Provides various advanced data charting and tools for on- and off-line data analysis

Research Applications
- Monitoring of severe head injury & subarachnoid haemorrhage patients
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- Intraoperative & non-invasive cerebral perfusion pressure monitoring
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Ordering
The ICM+® software can be configured according to each client’s needs; a standard perpetual research licence for up to 15 PCs in a research group or department is priced at £7,500. Offline licences for analysis of previously collected data are also available. We also offer consortium and project-specific licences; please enquire for pricing details. Prices exclude VAT where applicable.

If required, installation of the software and teaching in its use can be arranged under a separate consultancy agreement.

Should you wish to determine if your current equipment will be able to connect with the software as is or if further work may be required, please complete the licence request form and follow the instructions at:

http://www.enterprise.cam.ac.uk/icm

Dr Peter Smielewski (ps10011@cam.ac.uk) or Prof Marek Czosnyka (mc141@medschl.cam.ac.uk) can be contacted for technical queries.

For further information please visit:

http://www.neurosurg.cam.ac.uk/pages/ICM/about.php