



Background

Patients deteriorate over time but severity is probably not simply related to the duration of illness. Instead, the characteristics of severity most likely change with time. Early rather than established sepsis has a different immunology, pathophysiology, and probably a different response to treatment. We therefore need to consider the duration of illness when evaluating a patient.

This is the aim of SPOT(light).

Workload

SPOT(light) is *simple*. The only additional data we need is a description of the severity of illness of a patient when first assessed on the ward. This is just the routine data that you usually collect (vital signs, basic laboratory parameters, and basic treatments).

We will provide a secure web portal for data entry which can be in 'realtime', or done after admission to critical care. This data is matched to the Intensive Care National Audit & Research Centre's (ICNARC) Case Mix Programme Database (CMPD). Similarly, we will also using matching to measure 90 day survival (via the NHS Information Centre).

Benefits

★Participation in a Wellcome Trust and ICNARC supported multi-centre prospective study.

★The data entered on the web portal can be downloaded for local audit purposes.

★An individual end of study report will feedback the linked data to each participating team describing the severity of illness and 90 day survival of study patients.

★The web portal can also be used to enter the National Outreach Forum's (NOF) monthly quality indicators.

Patients & Units

- ▶50 critical care units
- ▶9000 patients

▶Adult patients admitted to Critical Care Units participating in the ICNARC CMP programme who have been assessed at any time on a ward prior to ICU admission by a critical care decision maker. This means either a Critical Care Outreach Team (or) any member of the medical staff on duty for the unit.

- ▶Exclusions: Paediatric or planned admissions

SPOT(light) Team

London School of Hygiene & Tropical Medicine

- ▶Steve Harris (Chief Investigator)
- ▶Colin Sanderson (Co-investigator)

ICNARC (Sponsor)

- ▶Professor Kathy Rowan (Co-investigator)
- ▶Phil Restarick (Research Coordinator)
- ▶Emma Walmsley (Research Administrator)

UCL

- ▶Professor Mervyn Singer (Co-investigator)

Progress & Funding

- ▶Currently recruiting
- ▶Ethics approved (REC Number 10/H0306/19)
- ▶Expressions of interest now invited
- ▶Local SSI R&D applications ongoing
- ▶NIHR portfolio application (in progress)
- ▶Dataset training days July 2010

Next steps

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SPOT(Light) is a Wellcome Trust & ICNARC supported multi-centre, prospective observational study to measure how timing of critical care affects outcome.