Identification of post-traumatic stress disorder following ICU

INTRODUCTION
At least 270 000 patients are admitted to intensive care units (ICUs) each year, and up to 27% of these develop post-ICU post-traumatic stress disorder (PTSD). This may be due to a variety of factors resulting in cumulative stress and trauma: fear of dying, invasive treatment, pain, delirium, inability to communicate, provision and withdrawal of sedation, experience of physical illness, immobility, and sensory and sleep deprivation. Patients’ families are also at risk of developing PTSD. One study suggested that the risk was as high as 33% for a family member with the main decision-making role; and this risk was increased when incomplete information was provided to family members, when the relative died on ICU, and when they were closely involved in management and end-of-life decisions (the latter could be because relatives felt more responsible for their family member’s management and therefore implicated in a negative outcome).

There is evidence that PTSD following traumatic experiences results in impaired daily functioning and reduced life course opportunities. In addition to an ICU admission, other traumatic experiences may include road traffic accidents, assaults, and domestic violence, all of which GPs will encounter regularly. PTSD is also associated with high levels of disability, including up to 3.6 days of work lost per person per month, and annual lost productivity due to PTSD is estimated at over $3 billion in the US alone.

Specialists in intensive care medicine typically focus on the prevention of short-term mortality and the improvement in the patient’s physical health. However, the intense focus on physical improvement can inadvertently result in neglect of the patient’s mental wellbeing, particularly in patients who have a long ICU stay. Even once discharged from ICU, psychological support can be forgotten with a focus on the patient’s physical rehabilitation and recovery in hospital before discharge. As GPs care for their patients over many years, they may be best able to identify psychological distress in patients who have been discharged following an ICU admission, and in their families. However, most GPs will likely have very little exposure to this patient population each year in the context of primary care.

SYMPTOMS AND RISK FACTORS
Box 1 illustrates the classical symptoms of PTSD. Some patients can experience these for many months after discharge, and qualitative research shows that content merges factual memories such as pain and bleeding with hallucinatory or delusional memories involving perceived persecution, aliens, torture, and conspiracy. It is unclear which aspects of intensive care are most traumatising, but clinical risk factors include the use of benzodiazepines, duration of sedation, and mechanical ventilation, whereas psychological risk factors include a prior psychiatric history, experiencing hallucinations or delusions in intensive care, and memory or cognitive disturbance.

Drawing on the experience of Taylor, Krige, and Fothergill, the authors wanted to highlight patient experiences that could inform post-ICU discharge care. Some patients, in a post-ICU clinic in North West England, describe detailed and complex delusions involving being moved around in a shopping trolley, being in a war zone, being in a coffin, and

Box 1. Characteristic symptoms of PTSD
- Intrusive memories, which are emotionally arousing memories intruding into patients’ minds.
- Feelings of panic and fear.
- Hyperarousal.
- Flashbacks or vivid reliving of trauma.
- Avoidance of situations that might trigger PTSD.
- Emotional numbing.
- Physical symptoms, including headache, dizziness, pain, sweating, trembling.


On discharge from hospital, the authors would suggest that GPs should consider proactively inviting a patient who has had an ICU admission to a consultation in order to discuss their experience and probe for PTSD symptoms. ICU discharge summaries describing the patient’s stay should be forwarded to GPs for their information, so that they understand what has happened to the patient in more detail. Acting proactively, although it may initially increase the GP’s workload, may prevent development of more severe symptoms and reduce the longer-term burden on the GP as well as the patient.

In addition to reviewing discharge paperwork that details some of the medical interventions, ICU diaries have been shown to be beneficial in reducing the incidence of PTSD, possibly through enabling patients to fill in the narrative of what has happened to them. GPs should ask their patients what they remember of their ICU admission, and whether they have ongoing distressing memories. If an ICU diary has been completed, GPs should review it with the patient and help them to contextualise what happened to them, if the patient feels this would be beneficial. This is particularly important in areas that do not have post-ICU clinics or other forms of follow-up after ICU admission. GPs can offer signposting to mental health services and helplines, and give patients the opportunity to talk about the psychological impact of their experience. GPs can also recommend the intensive care support charity ICUsteps (http://www.icusteps.org) to patients, which provides local support groups and resources for patients and relatives (adults and children) about the intensive care environment and what to expect after leaving the unit, including physical and psychological challenges.

Post-ICU clinics should be funded by clinical commissioning groups and encouraged to take a multidisciplinary approach, including liaison with the patient’s GP, particularly if the patient is felt to be at risk due to psychological distress. However, funding remains an ongoing challenge, and many hospitals lack capacity to meet the needs of patients, so GPs may be required to manage a shortfall of people who are unable to access clinics. In areas where there are no post-ICU clinics, the authors suggest that GPs help patients to contact ICUs, requesting a visit and a meeting with an ICU consultant in order to gain information about what happened during their admission. Liaison between primary and secondary care, and ongoing input from GPs, are likely to be of significant benefit to patients, and may reduce the personal and public health impact of PTSD following ICU admission.

Provenance
Freely submitted; externally peer reviewed.