Efficient utilisation of the trauma list is an important aspect of patient care in the NHS. We found that there was often a delay in the starting time of the first case on the trauma list because of various reasons. We introduced the novel idea of performing carpal tunnel release (CTR) as the first case of each trauma list, to make use of the redundant time. We report our experience of performing carpal tunnel decompression on the trauma list and the impact this had on the operating list.

METHODS

Southampton General Hospital is a tertiary referral centre. The trauma and orthopaedics unit has bed strength of 160. Around 1600 trauma operations are performed yearly. There is a dedicated trauma list on weekdays, scheduled to start at 8 30 am and finish at 5 pm.

Trauma theatre time utilisation was audited from April 2000 to March 2001. For the purpose of the study, “start” was defined as the moment of skin incision and “finish” when the patient was moved out of the operating table. A “delay” was defined as any event more than 15 minutes later than expected.

In May 2002, we started doing CTR as the first case on the trauma theatre lists. The trauma theatre time utilisation was re-audited after the introduction of carpal tunnel release.

RESULTS

Initial audit

Of the 141 trauma lists audited, the mean start time was found to be 9 40 am despite a scheduled start time of 8 30 am. The main reasons for the delay were the time required for the anaesthetist to see the patient (58%) and the other staff to set up the necessary equipments (28%). Surgeons were implicated in 14% of the delays.

Re-audit

The trauma theatre time utilisation was re-audited after the introduction of the CTR. We studied 140 lists and found that the start time for CTR was 8 44 am (mean). The start time of the first trauma case was 9 46 am (mean). After we started performing CTR as the first case, we were able to reduce the start delay from 70 minutes to 14 minutes. Therefore despite performing an additional surgery on the list there was a delay of only six minutes (p<0.05) to the start of first trauma case.

CTR had to be cancelled on three occasions in the one year period we audited, once because of medical reasons, and twice as the theatre was being used to perform emergency operations in patients with multiple injuries.

DISCUSSION

Operating sessions are an expensive and limited resource. Throughput in operating theatre is often used as an index of surgeon’s performance.1 In the first audit our aim was to determine the use of trauma list time and the causes for delayed starts.

CTR is among one of the most commonly performed procedures by orthopaedic surgeons. By performing CTR as the first case, we felt, we could tackle the common three causes of delays to the trauma list. This is a short procedure that can be performed by a junior grade surgeon giving time for the senior surgeon to complete post on-call ward rounds. As this is commonly performed under local anaesthetic, the presence of an anaesthetist is not required.2 Thereby the anaesthetist has sufficient time for assessment of patients on the trauma list. This also gives the theatre staff ample time for preparing complex instrumentations, if required, for the first trauma case.

After an extensive literature search we could only find one study where the orthopaedic theatre times were studied. Ricketts et al found that 60% of elective theatre time was used for operating and 21% for turnover.3 No useful activity occurred during the remaining 19% of the time. There was an average start delay of 26.5 minutes. In contrast with the study by Ricketts et al, we audited the timing of trauma lists that are well known for their unpredictability.

Ineffective use of expensive capital resources, such as theatre time, should not be acceptable to those responsible for the provision of health care. Since this audit, a third of carpal tunnel decompressions done in our hospital are now performed on trauma lists. This has also had a huge impact on reducing the waiting times required for CTR in our hospital. Better organisation and predictability of the start of the trauma list has improved the staff morale and working practices.

In the NHS, where pressures on waiting lists keep growing, we feel that simple and effective ideas like this can help make a big difference.

Authors’ affiliations

B Theruvil, R K Choudhary, V Kapoor, D G Hargreaves, D J Warwick, Department of Orthopaedics, Southampton University Hospital, Southampton, UK

Funding: none.
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