Risk assessment of psychiatric in-patients: audit of completion of a risk assessment tool

AIMS AND METHOD
Two complete audit cycles were used to assess the completion of a bespoke risk assessment tool and whether an educational intervention, and subsequently the introduction of a standardised admission pack, led to improvements in completion rates.

RESULTS
The total rate of completion of forms improved from 60% to 81% following a brief educational intervention in the form of a lecture and email about the audit. The subsequent introduction of a standardised admission pack containing the tool maintained completion rates.

CLINICAL IMPLICATIONS
Audit coupled with a simple educational intervention can improve the completion of risk assessment forms by medical and nursing staff.

Methods
The notes for all psychiatric in-patients in south Glasgow were reviewed across two hospital sites on a given day in March 2005. Patients on forensic wards were excluded as they had dedicated forensic risk assessment forms. Data were collected on patient age, gender, admission ward, date and time of admission, detention status, as well as the presence of and adequate completion of a GRS form.

The first intervention was a reminder of the importance of the GRS, sent via email to all clinical staff along with a brief synopsis of the results. The results were also presented at a lecture attended by clinical staff followed by an interactive discussion on risk assessment. Data from the same wards was then re-audited in May 2005 to determine any change in completion rates.

Qualitative feedback received from clinical staff revealed that the GRS forms on some wards were difficult to locate, as were other documentation that required completion during a patient admission. We used a second intervention to address this issue by introducing ‘medical admission packs’ which comprised a plastic folder containing a standardised admission form, physical examination form, prescription chart, patient identifier form and the GRS. Administration staff ensured that all wards had an adequate supply of the packs. The supply of packs to the wards was in itself audited briefly to ensure that availability did not pose a potential confounder. We then re-audited the completion of GRS forms in the same wards in November 2005.

Statistical analyses were performed using version 12.0.1 of SPSS.

Results
At baseline (i.e. initial audit) 109 out of 181 (60%) GRS forms had been completed, 46 (25%) had not been done, and 26 (15%) were incomplete or had problems. After the first intervention of education via lecture and email, 153 out of 189 GRS forms had been completed (81%); 34 (18%) had not been done and 2 (1%) were incomplete. After the second intervention (introduction of medical
admission packs) 150 (82%) forms were completed, 33 (17%) were not done and 1 (1%) was incomplete or had problems.

Using $\chi^2$ tests, we found no statistically significant associations with rates of completion of the GRS forms and (a) whether the form was completed during working hours or out of hours ($P=0.401$), (b) whether the form was completed for a patient of informal or detained status ($P=0.135$), or (c) the gender of the patient ($P=0.276$).

**Discussion**

Mandatory risk assessment tools ensure that issues surrounding risk are considered and documented as part of patient assessment and management. The use of these forms can thus be central to robust risk assessment and management of psychiatric in-patients.

Previous research has suggested that audit and feedback combined with education results in only a small effect on professional practice (Jamtvedt et al, 2007). In our study educational interventions in the form of an email and lecture informing clinical staff of audit results improved the completion rates of the GRS by 21%. This dramatic improvement may be related to the fact that our feedback was targeted at the specific population who would complete the forms routinely, i.e. senior house officers. Additionally, the format of our educational interventions not only highlighted the importance of completing the GRS forms, but also emphasised the principles behind a robust risk assessment and underlined its value to clinical management.

Recent evidence has shown that the introduction of a standardised admission form, incorporating clinical risk assessment, resulted in significant improvements to the recording of risk assessments (Dinniss et al, 2006). However, in our study, the introduction of medical admission packs containing the GRS did not further improve completion rates, although these rates were maintained. Order and carry-over effects from the first intervention are potential biases to be taken into account. This result suggests that the non-completion of risk assessment forms may not be related to their accessibility. Alternatively, the completion rate may have reached saturation point, preventing further increase.

Finally, the literature has demonstrated that problems in the adoption of risk assessment tools such as the GRS frequently relate to misgivings from medical staff regarding the tool’s validity, as well as difficulties that multidisciplinary teams have in completing the tool (Stein, 2005). We conducted a local survey and also revealed that clinical staff believed a lack of training and being short of confidence in carrying out an adequate risk assessment were additional key reasons for not routinely completing a formulation of risk (NHS Greater Glasgow, 2005). Brief intermittent educational intervention involving clinical staff as employed in our study may thus be helpful in increasing the awareness, and hence confidence, in the use of these risk assessment tools.

**Declaration of interest**

None.

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**References**

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