Improving handovers across a North London Mental Health Trust

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Abstract

The GMC Survey June 2011 highlighted that trainees in Barnet, Enfield and Haringey Mental Health Trust (BEH-MHT) were dissatisfied with the Trust’s handover process. At this time there were no Trust guidelines on handovers.

A quality improvement project was developed to create a consistent out of hours handover process and to improve staff satisfaction thereafter. Handover guidelines were implemented throughout the Trust on 1/2/12. An audit was carried out to measure staff compliance with handovers. A questionnaire was sent out to staff before and after implementation of the guidelines to assess satisfaction with handovers.

The audit results highlighted that handovers occurred relatively consistently across the Trust following implementation of the guidelines. The questionnaire results showed an improvement in staff satisfaction with the handover process.

The clinical implication of this project is an improved process of out of hours handover across BEH-MHT.

Problem

Barnet, Enfield and Haringey Mental Health Trust (BEH-MHT) provides a variety of mental health services across three boroughs in north London. There are three main hospital sites; St Ann’s (Haringey), Chase Farm (Enfield) and Barnet+Edgware (Barnet). BEH-MHT provides training posts for Psychiatry and General Practice junior doctors who rotate every six months through different placements. The General Medical Council (GMC) conducts an Annual National Survey of Trainees and the June 2011 Survey showed, in response to questions about ‘handover arrangements before/after night duty’, that trainees were dissatisfied with handover arrangements within the Trust (1). This score represented the lowest score amongst all London mental health trusts.

In August 2011, after this survey was conducted, BEH-MHT introduced a new model for the provision of out-of-hours services, namely ‘Mental Health at Night’. This resulted in the on-call junior doctor being non-residential and the first-line of emergency duty overnight being performed by a Senior Nurse Assessor (SNA). The SNA was able to contact a number of other doctors if medical assistance was required overnight. It was acknowledged that this would result in additional multidisciplinary handovers and lead to fewer face-to-face handovers. This more fragmented out-of-hours service could create greater dissatisfaction with provision of handover amongst trainees. At this time there were no Trust guidelines outlining the process of handover.

A quality improvement project was developed with support from the Trust’s Medical Education Committee. It was carried out under the guidance of the London Deanery STeLi (Simulation and Technology-enhanced Learning Initiative) programme (2). The aims of the project were:

1. To develop an effective and consistent process for out-of-hours handover,
2. To improve satisfaction with the handover process within the Trust.

At the time ‘Mental Health at Night’ was introduced, the out-of-hours on-call system was highly complex and varied from site to site throughout BEH-MHT. At St Ann’s Hospital the on-call doctors worked a 24 hour shift (9am-9am). At Chase Farm Hospital and Barnet+Edgware Hospital the on-call doctors worked a 16 hour shift (5pm-9am) during the weekdays and a 24 hour shift at weekends. At these two hospital sites the weekday daytime shift from 9am-5pm would be covered by two different doctors; one working the morning (9-1pm) shift and the other working the afternoon (1-5pm) shift.

At all three hospital sites the doctor would be the first point of call up until 9pm and their on-calls were non-residential (except at Chase Farm where doctors carried a bleep and were residential 9am-9pm and non-residential thereafter). From 9pm-9am an SNA at each site would be the first point of call. If the SNA required medical assistance overnight they were able to contact a ‘voluntary’ doctor who covered all three sites from 10pm-8am. Between the hours of 9pm-10pm and 8am-9am, if the SNA required medical assistance, they could contact the non-residential junior doctor on-call for their respective hospital sites. The SNA was also able to contact the on-call specialist registrar overnight if required. As a result the on-call junior doctor would rarely be contacted between the hours of 10pm-8am as the SNA, voluntary doctor, and specialist registrar should provide cover over this period.

At St Ann’s and Barnet+Edgware hospitals the junior doctors and SNAs used mobile phones as a method of communication whilst on-call. At Chase Farm Hospital a bleep system was used instead; this hospital was unable to change to a mobile phone system as would be preferred for ‘Mental Health at Night’. Doctors and SNAs on-call
covered the inpatient wards and the Acute Assessment Centre (Chase Farm and St Ann's only) at their respective hospital sites.

Background

Within healthcare, 'handover' is the episode in which the care of, and responsibility for, a patient is transferred from one professional to another. When considering the safety of healthcare, handovers have attracted increasing attention from organisations such as the World Health Organisation (3) and the British Medical Association (4).

There is a developing evidence base (5) to suggest that clinicians are frequently dissatisfied with the provision of adequate time for handovers and quality of the information provided within this time (6). Although studies to date have not been able to robustly establish the effect of handover interventions on patient safety (7), it is thought that inadequate handover can result in numerous adverse effects. Impaired communication during handovers may lead to delays in diagnosis or treatment, resulting in potential adverse events or near misses (8,9). It is thought that deficient handovers contribute to around one quarter of medical negligence claims (10,11).

Within mental healthcare, the available literature focuses mainly on nursing handovers (12,13). However, a recent observational study of handovers in mental health identified that Psychiatrists were less likely than other mental health professionals to have a face-to-face handover and were more likely to believe that shift-changes were problematic for patients (14).

Baseline Measurement

In December 2011 a questionnaire was distributed to all of the Trust's junior doctors and SNAs who were involved in out of hours handover to try to further understand the dissatisfaction with the process. The questionnaire was designed using input from junior doctors and SNAs. Questionnaires were distributed by the authors in paper and electronic form. The response rate was 62.5% (35/56) from 31/48 junior doctors and 4/8 SNAs who were spread across all 3 sites. The majority of respondents (71%) were not aware of a handover protocol that was in place (and at this time there was no protocol). 69% of staff had been involved in incidences in the preceding 6 months where handovers had not occurred whilst on-call.

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Strategy

First PDSA Cycle (Audit):

In the 'Plan' phase the goals of change were to develop an effective and consistent handover process at BEH-MHT and to improve staff satisfaction with the handover process. In the 'Do' phase the new handover process was implemented on 1/2/12 (when the new rotation of junior doctors started). The junior doctor project representatives gave a presentation at their respective local site inductions on the handover process. This process was discussed
A number of changes were incorporated into the guidelines as a result of feedback received from the questionnaires. A copy of the handover guidelines was put in the induction handbook which each new junior doctor to the Trust receives a copy of. Information on the handover process was given to staff at the Trust’s induction in August 2012 and was put on the agenda for future junior doctor inductions. Handovers would continue to be an agenda item at the Trust’s regular ‘Mental Health at Night’ meetings which were attended by junior doctor representatives, the lead SNA, human resources staff, clinical directors and managers.

**Post-Measurement**

The results from the daily audit in the first PDSA cycle, 13/2/12-26/2/12, showed that at St Ann’s and Chase Farm 100% of handovers occurred. At Barnet+Edgware however, only 74% of audited handovers occurred. The factors surrounding this poor result were multiple and looked into individually.

St Ann’s has one duty doctor (9am-9am) and one SNA (9pm-9am) on-call in the 24 hour period where as at Barnet+Edgware there are three doctors (covering the 9-1pm, 1-5pm, 5pm-9am shifts) and one SNA. We saw that having an increased number of doctors on-call at Barnet+Edgware led to increased confusion for those involved in on-calls as well as for switchboard. This complex on-call system at Barnet+Edgware meant that four handovers (at 9am, 1pm, 5pm and 9pm) were required in a 24 hour period compared with only two (9am and 9pm) at St Ann’s. Chase Farm has a similar system to Barnet+Edgware with three duty doctors on call and thus four handovers in a 24 hour period, however handovers here appeared to occur more consistently. We hypothesised that this was because of the bleep system used at Chase Farm which necessitates those on-call having to meet face to face to hand the bleep over. There is no bleep system in place at Barnet+Edgware, as is preferred for ‘Mental Health at Night’, and as a result handovers often take place over the telephone.

Beyond these differences in structure, it was noted that at Barnet+Edgware there were difficulties with switchboard obtaining and using up-to-date rotas and contact details for staff. This led to many attempted handovers via switchboard not occurring. It appeared that some of the Barnet+Edgware junior doctors had not fully understood the new handover process when it was introduced at their local induction day, and it appeared that some doctors were resistant to this new change.

The audit in the second PDSA cycle was completed every 8 days at all three sites from 5/3/12-27/7/12. Staff satisfaction was tested via a feedback questionnaire in July 2012 at the end of the 6 month junior doctor rotation.

In the ‘Study’ phase it was noted that there was an improvement at the Barnet+Edgware site with regards to proportion of handovers taking place. The questionnaires highlighted that there was an improvement in staff satisfaction with the handover process compared with the December 2011 questionnaire (baseline measurement).

In the ‘Act’ phase, to improve the process further, it was felt that the simpler on-call system which was used at St Ann’s (where there is one doctor on-call for the 24 hour shift during weekdays rather than three) should be adopted Trust-wide. We approached the Trust’s Directors who agreed to this new rota. It was then put through a consultation process and implemented for the new rotation of junior doctors starting in August 2012.

The questionnaire in July 2012, which was part of the second PDSA
cycle, received a response rate of 67% (37/55) from 7/8 SNAs and 30/47 junior doctors who were spread across the three sites. Some of the SNAs who responded worked at Chase Farm as well as at Barnet+Edgware when on-call, and so they were given their own separate category in the results table. The results showed an overall improvement in satisfaction with handovers compared with the December 2011 questionnaire. 100% of respondents were aware of the Trust's handover protocol. 35% of respondents had been involved in incidences on call where handovers had not taken place (the majority were from Barnet and Edgware sites). This was an improvement compared with the December 2011 questionnaire where 59% of respondents had been involved in such incidences. Respondents scored the handover process at their respective hospital sites as 7/10 (median) showing an improvement compared with the median December 2011 questionnaire score of 5/10 (See Results table).

See supplementary file: ds1914.doc - "Runcharts BMJ"

Lessons and Limitations

A lesson learnt through the Handover Project was the importance of engaging all stakeholders from the beginning. The project involved large numbers of staff from different disciplines which could have had the potential to lead to difficulties in implementation. Another lesson learnt was the effectiveness of 'bottom-up' change. The guidelines were designed and developed by the junior doctors and SNAs who were actually involved in out of hours' handovers, thus making them appropriate and relevant.

Sustainability has been a key factor in this project. In order to ensure that the progress made by so far is maintained multiple steps have been taken; for example putting the guidelines in the Junior Doctor Handbook and highlighting handovers at the Trust's inductions. Involving senior staff (consultants, lead SNA, managers and human resources) in the project should also help to ensure longevity given that junior doctors regularly rotate placements.

Limitations

A limitation to this project was the lack of baseline audit data which would have been useful to compare our subsequent audits to, in order to demonstrate a change. Another limitation was that the audit only looked at whether or not handovers had taken place, it did not assess the quality of the handovers or assess if the improved handover process affected patient outcomes. It is also worth noting that despite St Ann's and Chase Farm scoring 100% on their audit, 2 staff members from each site reported in the July 2012 questionnaire that they had been involved in incidences where handovers had not occurred. This highlights one of the difficulties in using the audit method which will not always capture the day-to-day variability in the data. Using the audit and the questionnaire together helped to minimise this variability as adherence to the handover guidelines was captured in both.

There may have been a response bias in our data collection as we could hypothesise that those people who responded to the questionnaires would be more motivated to engage in the handover process. There may have been a specific bias from Barnet+Edgware as we could hypothesise that those doctors and SNAs who were contacted during the intensive monitoring period might be more likely to engage in the handover process.

The December questionnaire result for St Ann's was not representative as the response rate was low at 56% (9/16) which makes the St Ann's results less valid. It was also noted that the SNA response rate was low at 50% (4/8) and therefore not representative. The questionnaire results were not analysed individually for SNAs and doctors so it is difficult to say how this impacted on the results. There were no clear reasons identified for these varying response rates.

It is worth considering that the new handover process has been largely influenced by external factors such as the introduction of the 'Mental Health at Night' system.

Conclusion

Overall, the results showed that handovers across the Trust occurred relatively consistently and that staff satisfaction with handovers improved following implementation of the guidelines.

In August 2012, a number of changes were made as highlighted in the 'Act' section of the second PDSA cycle. A third PDSA cycle will monitor these changes via an audit and repeat questionnaire over the next 6 month period.

As a result of the Handover Project, the Trust secured funding from the London Deanery SteLI Initiative (2) to construct a training package on handovers. This was put together by a multi-professional team under the direction of an external facilitator. There were two pilot training days run in March 2012 which received positive feedback. This training package is now available on the ‘Synapse’ website (16) for use across the London Deanery. The Trust has more recently secured funding from NHS London and the London Deanery to construct an E-Learning Module on Handovers. This E-learning module will help to improve the quality of handovers and also help to enable the long term sustainability of the Handover Project.

BEH-MHT has developed its own communication tool, specific to mental health, namely SBAR-MH (Situation, Background, Assessment, Recommendation-Mental Health) (17) which is based on the widely used SBAR tool (18). This tool details what information should be considered when giving a handover in a mental healthcare setting. The Trust’s Handover Guidelines and E Learning module will help to link the use of this tool in handovers to better improve communication.

References


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Declaration of interests

Nothing to declare

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