Factors influencing professional decision making on unplanned hospital admission: a qualitative study

INTRODUCTION
Unplanned or emergency admissions to hospital are expensive and can be distressing for patients and their carers. However, despite efforts to reduce unplanned admissions, rates continue to increase, creating growing pressure on health system resources. In the UK patients can access emergency hospital care with or without referral from a GP. Thus examination of factors influencing hospital admission in the NHS may be relevant to countries with similar healthcare systems.

A number of interventions to reduce avoidable unplanned hospital admissions have been introduced in the NHS, with limited success. Many of these interventions have not been informed by rigorous quantitative evidence regarding efficacy and cost-effectiveness, or by qualitative evidence on factors influencing professional decision making that may lead to admission.

There is some evidence to suggest that clinician factors play an important part in determining hospital admission rates. In a study exploring variations in GPs’ out-of-hours emergency referrals, factors reported to influence referral behaviour included: risk management and individual tolerance of risk; access to alternative care; and time taken to identify and organise alternatives to admission. Decisions about referral for emergency admission may involve conflicts of interests for GPs, who have to strike a balance between concerns for the patient’s health, consequences for other stakeholders and their own professional reputations. However, variation in referral rates remains poorly understood and largely unexplained.

The aim of this study is to explore factors impacting on professional decision making around unplanned hospital admission across the primary, emergency, and social care sectors, in order to enhance the understanding of variations in rates of admission.

METHOD
The study took place in three primary care trusts (PCTs), two acute hospitals with emergency departments (ED or A&E), an ambulance service and social services in one geographic area with a range of unplanned admission rates in England, UK. The ambulance service covered both hospitals, all three PCTs and social services providers. The other services were not necessarily coterminous.

Sampling and data collection
Purposeful sampling was used to select participants involved in decision making that may result in unplanned admissions. The study sought to include individuals across primary, emergency, and social care sectors, with a variety of professional roles. Key roles to be included were identified in collaboration with the study advisory group and individuals fulfilling those roles were then approached via email with an invitation to participate.

Individual, indepth interviews were conducted in the participant’s workplace. Interviews took the form of a guided conversation, using a flexible topic guide.
How this fits in

Unplanned admissions to hospital are a challenge for healthcare systems and variation in unplanned admission rates across general practices remains largely unexplained. This study used qualitative methodology to identify factors influencing professional decision making around unplanned hospital admission. Health and social care professionals reported the following influences on decision making: lack of availability of seamless care on a 24/7 basis; ‘professional tribalism’ and poor information flow; conflicting service targets and performance management; commissioning culture and the impact of a ‘market approach’; clinical governance structures, tolerance of risk and the role of peer support. By identifying factors that influence decision making across health and social care, these findings highlight areas that could be addressed by interventions to reduce unplanned hospital admissions.

RESULTS

Nineteen health and social care professionals were interviewed: five from primary care, seven from secondary care and seven from community and emergency care (Table 1).

A range of factors impacting decision making that leads to unplanned hospital admissions emerged from participants’ accounts. Commonalities in these factors across the professional groups interviewed reflected both systems issues and individual professional factors. Systems issues included a range of long-standing organisational features of primary, secondary and social care as well as more recent aspects of the current commissioning culture in the NHS.

‘Falling between the cracks’: lack of availability of 24/7 care

The lack of availability of seamless care across healthcare interfaces, on a 24 hours a day, 7 days a week basis, was a recurring issue in participants’ accounts regarding influences on decision making:

‘I think it is a 7-day week issue [demand for health care services] but I think the hospitals still work on the 5 days a week and most organisations work on 5 days a week and between about lunchtime on Friday and Monday morning nothing happens … so people tend to end up in hospital sometimes whether they need it or not’ [P11, social worker].

A lack of coherence in the provision of health care outside normal working hours was seen to result in patients ‘falling between the cracks’ in the system and being admitted to hospital perhaps unnecessarily.

A lack of service capacity due to poor weekend staffing levels was attributed as a major barrier to the provision of round-the-clock care:

‘Teams often run out of capacity on a Friday before a weekend … and that’s largely because it’s difficult to employ people at weekends.’ [P3, primary care]

Participants reflected on the economics of increasing staff numbers to increase weekend functionality, but tended to conclude that this would not prove cost effective when weighed against any financial savings made through averting hospital admissions:

‘Using professional people that are only working weekends … and then you end up having to pay a lot
more money for those services and there isn’t an endless amount of money … and actually, quite frankly, once you get into that arena, if [24/7 care] stops being worthwhile.’ (P3, primary care)

Poor information flow and ‘professional tribalism’

The lack of coherence between computerised patient information systems across different healthcare sectors and the variable quality of written information between professionals were repeatedly cited as factors influencing decision making:

‘Information flows remain very poor despite the plethora of IT systems that are out there … if GPs wrote better referral letters, if consultants wrote better discharge letters and both of them talked in proper language to each other … then the GP taking over the care would be able to actually make a better informed decision about the next steps and support that journey.’ (P15, primary care)

Poor communication between health and social care was also cited by a number of participants, particularly in relation to accessing patient notes:

Researcher (R): ‘Is there anything you can identify, in your job, you think well if only we could do this, that would make communication so much easier...?’

Participant (P): ‘Yes, the computer systems really…sometimes you know I ring another … [colleague] like the District Nurse and I’ve got to explain so much … I just wish I could just email her all the case notes and she could just read them.’ (P22, Social worker)

While the diversity of information technology systems was seen to be an important contributor, over and above this poor information flow was attributed to the presence of professional boundaries and ‘tribalism’ that hampered informed clinical decision making about patient care:

‘We have computer systems that share information, we’ve got computer systems that could share more information if we didn’t have all the, professional tribalism that sits around it. It’s not information governance … it’s about professional tribalism … we could actually do more electronic information sharing if people gave up some of their kind of prejudices or stereotypes.’ (P10, secondary care)

It also contributed to ‘political’ decision making around the funding of services and information systems:

P: ‘... I think it was a political thing really I think because we used to have the hub for [IT system] in our control room and it’s gone from there now and I don’t know if it costs a lot of money for the ambulance service to have it on their system, I don’t know.’

R: ‘Right. So you could look at patients’ notes?’

P: ‘Yes, I mean it wasn’t ever there in the house [patient’s home] because we were supposed to have laptops that allowed us to do it instantaneously but we never got those either even though there was funding for them.’ (P14, emergency care)

More profoundly, there was the perception by some participants that only ‘lip service’ was paid to the notion of patient-centred care in some areas of the health service. Service providers were often viewed as prioritising the needs of their service rather than patients, which could lead to poor information flow to other sectors:

‘First of all, I think we pay lip service to the fact that the patient is at the centre of the journey. I don’t believe that actually most professionals do put most patients at the centre of the journey. They put their service at the centre of what they’re doing for the patient.’ (P15, primary care)
This was especially relevant for patients with long-term conditions who are more likely to receive care from health and social care services.

Service targets and performance management

Service delivery targets and performance management also emerged as interconnected factors impacting professional decision making about unplanned hospital admissions. For example: despite the introduction of highly trained emergency care practitioners (ECPs) to the ambulance service to avert avoidable admissions, the introduction of response time targets to monitor service performance resulted in ECPs being ‘pulled out’ of admission avoidance calls to meet response time targets:

“They [Ambulance Service Trust] have recently increased pressure on us ... if there’s a red call [8-minute response time] ... they will interrupt us, take us out of that job [avoidable admissions] and send us to the red call ... That’s just purely to do with wanting somebody there within 8 minutes. It’s nothing to do with quality of care ... so their remit hasn’t really been hospital avoidance.” [P14, emergency care]

The nationally implemented 4-hour waiting time target in ED was viewed as influencing professional decision making in favour of a hospital admission. Participants explained how this 4-hour performance target can drive risk-averse decision making in favour of admission, particularly for more junior staff. Rather than allowing patients to wait to be seen in the ED and risk failing to meet this performance target, clinicians were perceived as often opting for admission even if this is not necessarily in the patient’s best interests:

‘Most A&E doctors, again, want to do what’s best for the patient but the junior staff are probably more risk averse ... more senior staff are probably more likely to be able to turn people round, but you have the 4-hour target which is a big driver to move someone from an A&E Department into a formal bed to trigger an admission ... so that 4-hour target will tend to drive people into admission.” [P5, primary care]

‘They [A&E] had a 4-hour target and if somebody is sat there it is quicker to put them in a bed so they meet their target, rather than wait until somebody gets involved and turns them around.” [P17, intermediate care]

Commissioning culture and the impact of a ‘market’ approach

Participants’ accounts of how the commissioning culture impacts on professional decision making emphasised the ways in which the ‘micro politics’ of funding produced incentives and disincentives to hospital admission. Despite healthcare policy to locate more services in the community, admission avoidance, and discharge interventions were reported to lack capacity. It was suggested that PCTs were paying ‘lip service’ to the provision of community-based health care.

Broader economic and macro political drivers, such as the introduction of a ‘market’ approach to commissioning and the privatisation of services, were additionally felt to impact professional decision making and the quality of patient care. For example, a hospital-based participant explained how the funding of emergency care via the NHS fee for service payment mechanism — ‘payment-by-results’ (PbR) — was perceived to incentivise hospital admissions while augmenting adversarial relationships between secondary care and the PCT:

‘Because of the PbR system there’s an incentive to admit people because you get paid more money. So you could imagine the hospitals are going out onto the streets with a big net and getting people and dragging them in and saying you know you must come into this hospital and we’ll charge the commissioning body, the PCT for your admission.” [P21, secondary care]

The same participant also explained how financial incentives may influence clinician decision making in primary care if a ‘market approach’ is adopted by the new GP led commissioning consortia:

‘The incentivisation for GPs is a bit, for my money it’s a bit too close to their personal profits I think ... The commissioning consortia, it’s very clear, it’s gonna be a major lever for them but that, of course, just drives down quality because they say well you know we’ll cut this, we’ll get rid of that, we’ll move this, you know we’ll get a cheaper version ... It will incentivise people for the wrong reasons.” [P21, secondary care]

GPs’ decisions regarding hospital admission may end up being influenced primarily by financial drivers to provide the cheapest treatment option rather than by the ethic of providing the best quality patient care.
Some concerns were expressed that services already in place to help avert hospital admissions were under-resourced. There was a perception that a degree of rhetoric existed at senior levels within the healthcare system regarding the value of interventions to avoid admissions, that was not supported by appropriate levels of funding to successfully implement such services. Failures in systems supposed to facilitate care for patients in the community, resulting from under-resourcing of such services, may leave clinicians with little choice but to refer to hospital while discouraging them from accessing these services in the future:

‘The difficulty is that the Single Point of Access [SPA] line is, is manned 24/7 but the services that they filter through are either full to capacity because they’re understaffed, staff sickness, maternity leave, job vacancies. So what’s happened is they’ve put a lot of staff to man that SPA line but the other teams that, who are there to help ... safely discharge patients and care for people in their own home ... aren’t able to take on [the work] because of staffing issues. What’s happening is that at a much senior level what’s being promised is not what’s being delivered.’ (P2, secondary care)

Clinical governance structures, tolerance of risk, and the role of peer support

Participants described how clinical governance structures within the health service shaped their approach to risk, including the degree to which they feel able to tolerate risk within their decision making about potential hospital admission.

A tension between avoiding risk and averting hospital admissions was perceived, particularly among primary care participants. A ‘double think’ was seen to exist within the healthcare system, with large secondary or emergency care organisations adopting top down systems to ‘wrap themselves up in processes which completely avoid risk ... GPs are key here because they’re often making decisions and the key reason why they’re able to be less risk averse ... they are actually able to own their own decisions. So they are able to take direct responsibility as an individual for the decision that they make ...’ (P3 primary care)

Having access to peer support in decision making was identified as an important factor in helping professionals to appropriately manage risk, and potentially avert an avoidable hospital admission:

‘You are making some decisions ... [and] yes it is quite a lonely process and it’s really important to feel that you’ve got a peer or a parent type figure to ask or refer to.’ (P9, primary care)

While this was particularly noted by professionals working in primary care, participants across the health and social care sectors emphasised the value of a supportive inter-professional working ethos for robust decision making. Peer support was seen to be fostered in an organisational ethos that was patient centred, multiprofessional and team based.

DISCUSSION

Summary

Health and social care professionals reported the following influences on decision making that may lead to an unplanned hospital admission: lack of availability of seamless care on a 24/7 basis; ‘professional tribalism’ and poor information flow; service targets and performance management; commissioning culture and the impact of a ‘market approach’; and clinical governance structures, tolerance of risk and the role of peer support.

Strengths and limitations

To the authors’ knowledge, this is the first qualitative study on decision making
regarding unplanned admissions that has included a wide range of health and social service staff. Sampling across service sectors allowed to access a broad range of perspectives on inter- and intra-service issues that can impact on professional decision making.

As only a few participants were recruited from each service sector some of the findings may represent idiosyncratic views from a specific perspective. As the study sampled to maximise variation in the professional groups represented, there was less scope for fine grained exploration of factors influencing decision making on unplanned admissions within each professional group. As rural areas report lower rates of emergency care use the inclusion of such a locality would have presented the opportunity to explore this factor. The study was undertaken in one geographic area and some issues identified, such as access to patient record systems, may not be a problem in other areas.

Comparison with existing literature

Previous studies have reported that GPs experience conflicts of interest in decision making about emergency admissions. This study supports these findings, and adds a multiprofessional perspective by identifying a variety of potentially conflicting interests and rationalities across different health and social care sectors. These areas of tension may impact professional decision making and contribute to unplanned hospital admissions.

For example, professional tribalism and rivalries between services may inhibit the flow of patient information and the provision of seamless health care on a 24/7 basis, favouring the needs of the service over the needs of the patient. Conflicting rationalities with regard to the management of risk may impact professional decision making with regard to unplanned admissions. While secondary and emergency care clinical governance frameworks are designed to minimise risk, GPs are being encouraged to tolerate risk in decision making. However, a risk tolerant approach to averting unplanned admissions in primary care may become mired by a lack of capacity in community based services to support the avoidance of an admission, or by a risk adverse culture in other services.

Haddow et al explored the issue of organisational identity in the implementation of a new, nationally integrated telephone advice and consultation service [NHS 24], concluding that seamless, inter-professional working across traditional organisational boundaries, requires recognition of the complex ownerships, and identities that exist within different parts of the health service. Similarly, the professionals in this study identified how complexity has resulted in a lack of coherence across and within services, which impacts on decision making and promotes unplanned admission.

The presence of inter-organisational politics between hospitals, commissioners and primary care was raised by participants as an issue impacting decision making regarding hospital admission. Under PbR, PCTs have been incentivised to prevent admissions as the full national tariff, or fee, is retained by the PCT for each admission avoided. However, there is evidence to suggest that PbR can induce hospitals to ‘game’ the system to their financial advantage for example, by accepting clinically inappropriate admissions from ED departments. Accounts from participants indicate perceptions about ‘gaming’ the system are present within professional groups across the healthcare sectors. It will be interesting to see how the new clinical commissioning consortia being introduced in the NHS will impact decision making regarding unplanned admission and whether further conflicts of interest will be experienced by GPs and their colleagues in other health and social care sectors.

Implications for future research

This study makes some contribution to understanding variations in admission rates. Future research developing interventions that address the problems highlighted around risk management across services, communication and IT, and 24-hour care provision, especially in patients with multimorbidities or complex needs, would provide solutions for overcoming these issues.

Funding

Medical Research Council [Ref G0501936], South West General Practice Trust, University Hospitals Bristol NHS Foundation Trust, Avon Primary Care Research Collaborative.

Ethical approval

The study was approved by the National Research Ethics Service, South West 3 Research Ethics Committee (10/H0106/61).

Provenance

Freely submitted; externally peer reviewed.

Competing interests

The authors have declared no competing interests.

Acknowledgements

We would like to thank the health and social care participants who took part in this study. We would also like to thank our advisory group for their encouragement, expert advice and enthusiasm. We thank the National Institute for Health Research for inclusion in their portfolio of studies.

Discuss this article

Contribute and read comments about this article on the Discussion Forum: http://www.rcgp.org.uk/bjgp-discuss
REFERENCES


