

Intra- and interprofessional practices through fresh eyes: a qualitative analysis of medical students' early workplace experiences

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Abstract

Background Professional identities are influenced by experiences in the clinical workplace including socialisation processes that may be hidden from academic faculty and potentially divergent from formal curricula. With the current educational emphasis on complexity, preparedness for practice, patient safety and team-working it is necessary to evaluate and respond to what students are learning about collaborative practices during their clinical placements. Methods 394 second year medical students at a London medical school were invited to submit a short formative essay as part of their coursework describing, evaluating and reflecting on their experiences of how healthcare professionals work together. Their experiences were derived from having spent two days each week for 25 weeks in clinical contexts across primary and secondary care. We consented 311 participants and used a Consensual Qualitative Research approach to analyse these essays, creating a 'students-eye view' of intra- and interprofessional practices in the workplace. Results We identified four overarching themes in students' essays: - Theme 1: analyses of contextual factors driving team tensions including staff shortages, shifting teams, and infrastructural issues; - Theme 2: observations of hierarchical and paternalistic attitudes and behaviours; - Theme 3: respect for team members' ability to manage and mitigate tensions and attitudes; and - Theme 4: take-forward learning including enthusiasm for quality improvement and system change. Conclusions Students are being socialised into a complex, hierarchical, pressurised clinical workplace and experience wide variations in professional behaviours and practices. They articulate a need to find constructive ways forward in the interests of staff wellbeing and patient care. We present educational recommendations including providing safe reflective spaces, using students' lived experience as raw material for systems thinking and quality improvement, and closing the feedback loop with placement sites on behalf of students.

Background

Much of a medical student's education evolves in the clinical workplace rather than the lecture theatre, classroom or laboratory. It is in this context that their professional identity emerges (1) where they experience medicine's tasks, vocabulary, and organising principles (2), and where professional role modelling and the construction of sociocultural norms occur (3, 4). This type of learning may happen out of sight of academic faculty, and it is difficult to assess its influence on student development (5, 6). Our study's aim was to give voice to students' early workplace learning about interprofessional norms and practices. A secondary aim was to gain insight into workplace practices and interprofessional relationships through a 'fresh pair of eyes'; that is, the untutored eyes of junior medical students.

Interprofessional teamwork and cross-disciplinary communication in healthcare are taking on increased educational importance. This is because of rising care complexity (7) resulting from multi-morbidity, an ageing population, workforce challenges, bureaucratic pressures, financial constraints, scientific uncertainty and technological change (8). To navigate this complexity, clinicians and allied health professionals need to collaborate and communicate in ways that make possible the management of emergent and unpredictable circumstances (9).

When healthcare professional students are sent on clinical placements, they experience rising care complexity first hand as insider–outsiders: as people who find themselves in a liminal space as they vacillate between uninitiated–outsider and established–insider roles. As the term ‘liminal’ is intended to signal, this space is not simply a marginal, neglected space, but can also be a privileged one. That is, inhabiting the periphery may grant people novel perspectives on practices and processes that might otherwise remain unchallenged (8). Medical students on placements are in a unique position of being novices who are allowed into healthcare settings, to observe, and at times participate as apprentices. Learning in this context means absorbing the practical dimensions of healthcare provision. While ordinarily expected to reflect on patient presentations and clinical questions, students are less commonly given the opportunity to reflect on organisational, interprofessional, cultural and relational dynamics.

There is as yet limited research on the impact of these workplace dynamics on medical students’ learning. In a recent article, Shaw and colleagues (10) describe students’ experiences of dissonance with regard to seniors’ conducts “that contradict their [students’] ethical, moral and professional understandings of appropriate medical practice” (p 45). Explaining the impact of this on students’ behaviour, Shaw and colleagues’ study outlines various kinds of covert and overt resistance on the part of students to established ways of working among seniors. Their study concludes that it is imperative for “all workplace-learning stakeholders to better understand the social dynamics of hierarchies and resistance” (p 45). While their study identified medical students’ acts of resistance to seniors’ conducts, our aim is to look more broadly at how students characterise the workplace sociocultural context and the interprofessional behaviours and practices encountered therein.

Specifically, we aim to synthesise students’ experiences of and views about the interprofessional dynamics they encounter on their clinical placements. In doing so, we acknowledge that students’ reflections may not constitute an ‘objective’ view of interprofessionalism: it is the perspective of students that is the focus of our analysis. Students may feel reluctant to be critical, and their descriptions will be influenced by memory, perspective and interpretation. This notwithstanding, their writing draws our attention to dimensions of clinical work ordinarily backgrounded in medical curricula, providing insights into what students find remarkable and how they process what they have seen.

Methods

Conceptual framework

Our analysis draws on Haidet and Teal’s conceptual framework for deconstructing hidden curricula in medical education (11). This model approaches the hidden curriculum from three angles: its formation (“what are the forces fostering the hidden curriculum?”), description (“what is the hidden curriculum?”) and impact (“what are the effects of the hidden curriculum?”). For the purposes of this article, we regard the hidden curriculum to be what students learn in addition to what they are directly or deliberately taught through timetabled education. This includes socialisation, or initiation, into the workplace culture. The process of initiation may be transformational: changing the way students think and act in a fundamental

way. Its description benefits from Mezirow's (12) theory according to which transformative learning happens as students process cognitive dissonances: mismatches between what they observe, and what they feel should have happened, or their prior conceptions of what should be. Dissonances are likely to be stronger for those entering a new socio-cultural context, such as medical students entering the clinical workplace for the first time. Such dissonances tend to arise for all new entrants into a society or profession as they transition between who they were (outsiders) towards who they will become (insiders) (13). Our study sought to make explicit these ordinarily hidden dissonances and transformations.

Study Design

Students were invited to submit a formative essay assignment as part of their coursework, describing and reflecting on their experiences of how professionals work together. The assignment was not compulsory and was designed to feed forward into a small group discussion on collaborative working the following week, facilitated by their GP tutor. We analysed a random selection of essays using a CQR approach (14).

Research team

Our research team were all trained and experienced qualitative researchers, and comprised a postdoctoral psychologist (AK) and a professor of team-based practice (RI), who were unconnected to the module, and the educational lead for the primary care module (KLG). The potential bias of (KLG) as module lead was mitigated through reflexive discussions and oversight by (AK) and (RI).

Participants

All second year medical students in the 2017-18 academic year (N = 394) at King's College London GKT School of Medical Education were eligible to participate. We did not collect demographic data, however these are likely to reflect those of the institution described elsewhere (15). Participants were in week 25 of a 36-week term, having spent one day each week at one of over 40 primary care teaching practices, and one in secondary care placed across four teaching hospitals. On primary care days, students were embedded in a single practice; on acute care days they rotated between specialities and services. Their formal interprofessional education to date included four multi-professional workshops on collaborative practices for patient safety, where they explored a range of commonly used structured practices and theoretical frameworks, assessed through team presentation.

Data generation

As part of their coursework, students were invited to submit a formative 500-1000 word written assignment via their virtual learning environment as follows:

“You have spent most of your time so far thinking about how healthcare professionals interact with patients. We’d like you to spend a bit of time instead thinking about how healthcare professionals interact with each other. You may have witnessed ways of working, communicating and collaborating that impress or trouble you. You may like to focus on how people communicate, or on the general processes and systems that you have observed. You may have suggestions that could improve the way healthcare professionals work together. Please describe anything you have seen and how it made you feel, thinking critically about it. You may make suggestions about how things could be done better, or about excellent practice that you feel should be replicated.”

We invited students to share their anonymised assignments for research purposes at the point of submission, with links to the participant information sheet. 322 essays were submitted (81.7% of the year group) and 311 students consented to participate (78.9%). Students could review and update their consent until the end of term. We took care to ensure that students could voice their learning without fear of repercussion. An administrator removed non-consented essays from our dataset and redacted potentially identifiable content. Ethical approval was granted by the Research Ethics Committee of King’s College London Ethics Ref: LRS-17/18-4884.

Data analysis

Stage 1: data preparation and immersion

Analysis began with immersion in the data. We noted that the essays tended to include one or more narratives of an incident or observation of a process, with a section of critical reflection and take-forward learning. We selected batches of essays for analysis using a random number generator. Essays were parsed into ‘cases’ which each constituted a single incident or observation with associated reflection/analysis as some essays reflected on multiple observations. We then created a data extraction table that included case summaries (condensed observation and analysis) with links to the underlying essay and associated thematic coding.

Stage 2: content coding

Stage 2 involved coding the underlying essays for content facilitated by NVivo 12 software. The codes were created and organised using an iterative CQR process (14). This involved two researchers (KLG and AK) independently coding a sample of 5 essays, meeting with a third auditing researcher (RI) to discuss and review their codings, resolve discrepancies, and agree a new composite coding scheme. The composite coding scheme was then re-applied to those 5 essays, and tested on a new sample of 5 randomly selected essays. This process was repeated until the coding scheme adequately covered the content of new essays (data saturation), which was achieved at 30 essays. (KLG) and (AK) tested the final coding scheme against a further randomly selected sample of 20 essays and no significant new codes arose.

Stage 3: overarching thematic analysis and verification

Stage 3 involved researchers deriving an overarching analysis that was grounded in the coding tree and the data-extraction table. This was achieved through an iterative process involving five meetings: continual sorting and resorting of the cases and codings, and comparing the underlying data to our emerging descriptive analysis. Finally, we re-immersed ourselves in the data and each researcher read one-third of the remaining portfolios to ensure all 311 essays had been read and no significant thematic features were missed.

Results

We organised our data into four themes: theme 1 represents students' sense-making of the contextual factors driving team behaviours; themes 2 and 3 evaluations of negative and positive team behaviours; and theme 4 students' take-forward learning. These themes map onto the Formation (theme 1), Description (themes 2 and 3) and Impact (theme 4) categories of Haidet and Teal's model for evaluating the hidden curriculum (16), and are displayed in Figure 1.

Theme 1: Insights into contextual factors driving team behaviours

Students described tensions affecting interprofessional working practices, created by shifting teams, temporary workers, rota gaps, IT infrastructure and workload. They demonstrated insights into how these impact on quality of care, patient safety and staff morale.

Students described how time pressures, overcrowding and staff shortages appeared to drive clinicians to limit their communication, rendering interprofessional boundaries more acute and problematic *"...there is often a pressure such as timing or understaffing that leads to bad communication. In these situations, individuals begin to only communicate with members of staff within their surrounding group... This leads to much confusion about the needs of individual patients and the status of each patient within the ward... Unfortunately, issues such as this seem to arise due to the pressures faced by the NHS, and not the fact that healthcare professionals are incapable of communicating with one another"* (R216).

Understaffing was seen to affect team communication and behaviour negatively. For example, locum workers covering rota gaps were seen as creating team tensions, despite being highly qualified, as students felt they lacked knowledge about the people, structure and practices of the healthcare facility. They were seen to slow the usual flow of work as they had to keep asking others for information, in one case resulting in a patient safety incident due to unfamiliarity with local handover practices.

Students demonstrated insights into how interpersonal dynamics are shaped by organisational context, comparing fractured interprofessional relationships within shifting hospital teams to more integrated and stable primary care teams: *"I have noticed that the [hospital] doctors generally get on well with each other and the nurses do also but there is not much interaction between the two groups... The team of staff*

working at the [GP] surgery remains much more consistent... they have the opportunity to get to know each other and become friends, not just colleagues" (R122).

Students described how time constraints meant that staff often failed to read what others had written in the notes, affecting patient care and interprofessional dynamics. Time constraints were also seen to impact on wellbeing, for example, a nurse was described as not being granted time to recover from a traumatic death affecting their ability to participate fully in a meeting. Students also described how the lack of IT infrastructure, particularly at the interfaces between services, meant that work was often duplicated and expertise lost. They described teams improvising to resolve IT shortfalls, for example junior doctors resolving absences and IT breakdowns using informal messaging apps.

Workforce pressures were described as impacting on education, with some clinicians offering to teach outside their working hours, some failing to communicate absence from teaching, and others simply refusing to teach: *"...he interrupted me with "what do you want?" quite abruptly and then when I explained that we had been asked to shadow him, he told us he didn't have time for us..." (R078).*

Theme 2: Criticism of suboptimal interpersonal interactions

Students expressed insights into how hierarchy within professions and tribalism between professions are damaging to patient care, patient safety and staff wellbeing. For example, a junior team member was reported as unable to call on their senior for support after being abused by a patient, which was attributed to hierarchy. Consultants were observed at times to lack respect for junior doctors: *"While all the consultants I observed were polite with patients some were less so with their juniors using them purely as typists and not engaging them at all, in the worst cases they barely even looked at them" (R027); and "During a ward round I witnessed a consultant humiliate a FY1 in front of the multidisciplinary team around a patient's bedside" (R078).* Students were critical of teams that did not respect or support junior members of staff, or staff from other professions, with several students evaluating such practices as 'old fashioned'.

Students reported clinicians keeping allied health professionals 'out of the loop', which they felt impacted on clinical care. For example, observing an interprofessional rift in a maternity unit, a student expressed concern that junior midwives appeared nervous to escalate the level of care or ask for help (R004).

Students reported occasionally witnessing interprofessional and interpersonal micro-aggression, resentment and disrespect: *"I was shocked at how much of an impact issues within the healthcare team had on the communication skills of this particular doctor, but one thing for sure was that it highlighted how vital good team dynamics are for anyone working within healthcare" (R021).*

Students reflected on the clash between what is taught and what is practised, noting that faculty teaching espouses respect, empathy and good communication, however in practice they experienced *"miscommunication or no communication between certain disciplines within the hospital" (R254), and*

practices such as *“the nurse and doctor... blaming each other for the error in front of the patient - this is not uncommon” (R104)*. Students also reported adversarial encounters between nursing and medical students during campus-based interprofessional education. They commented on how tribalism between the professions extended into social relationships, with friendships tending to form within but not between professions.

Theme 3: Respect for team members’ attitudes and behaviours

Criticisms were greatly outnumbered by appreciative evaluations where students expressed admiration for team members who understood each other’s roles and were comfortable drawing on the expertise around them. Students described team members as mutually respectful, supporting each other, keeping the interests of the patient as their primary concern, fluidly adapting to their environment, collectively managing complexity, and with seniors supporting juniors: *“This experience made me very happy as it shows despite understaffing and the obvious strains on the NHS and healthcare professionals, with efficient management patient care can be maximised and the healthcare professionals can enjoy working in the department. It was also nice that the staff were very keen on getting myself and my fellow medical student involved and part of the team on the ward rather than an inconvenience. This experience will always stick with me in the future showing me how effective communication and collaboration can be in improving not only patient outcomes but improving the working environment of healthcare professionals” (R266)*.

Students described insights into how trust and ownership of a task engender responsibility and engagement, and how trust facilitates easy checking with colleagues, enhancing patient safety and effective sharing of the workload across the team. They described patient care as a uniting factor *“all the people involved in the care of a patient, from the porters to the most senior of consultants ultimately have the same goal of improving the patient’s health and experience in our healthcare system” (R083)*. There were insights into how improved cross-disciplinary communication supported practitioner wellbeing as well as patient safety and experience. For example, effective integration and cross-checking between obstetricians and midwives was seen *‘to alleviate the tension caused in uncertain births’ (R004)*.

Students described and analysed many of the structured interprofessional practices that they observed such as ward rounds, board rounds, hand overs, and multidisciplinary team (MDT) meetings, praising their interprofessional participatory nature and positive impact on patient care. There were insights into how informal social communication and personal friendship mitigated against the adverse impacts of hierarchy or tribalism. Mutual respect was described as facilitating shared leadership and active participation. Students commented positively on communication taking place in different registers: informally over refreshment breaks, and formally during case reviews *“I have seen fascinating discussions happen both in meetings and other informal settings that have prevented a lot of problems that could otherwise have had a negative impact on the patient’s experience” (R083)*.

Theme 4: Students' take-forward learning

Students described wanting to emulate and spread interprofessional behaviours and practices that they had positively evaluated and to address the drivers of interprofessional tensions. Examples of learning included wanting to express gratitude and praise more often, and wanting to cross-check actions with allied professionals as well as seniors and peers. Students suggested new practices, improved practices, and the further sharing of successful practices that they witnessed elsewhere (summarised in Table 1). These new or improved approaches were suggested in response to the perceived complexities of care and the many factors detracting from practitioners being or becoming familiar with colleagues. Improved communication between and within professions was linked to patient dignity and better patient care: for example giving *'patients a voice by improving communication between ourselves as health care practitioners'* (R057).

Students described affective responses to suboptimal behaviours: *"nurses have told me that it is often the junior doctors, which don't treat them with respect... I felt sad for the nurses when they were spoke to rudely."* (R219) They expressed a desire to engage in positive change even after negative experiences: *"... after much deliberation I have come to the conclusion that these experiences have only served to provide me a deeper insight into the type of doctor I do not want to be,"* (R254) demonstrating engagement in critical analysis and constructive suggestions, rather than detached resignation. Students' affective response to positively evaluated team behaviours was linked to an alignment towards and identification with those behaviours: *"The brilliant communication on the labour ward made me feel extremely proud that the concepts of patient centeredness and team work are thriving within clinical practice, and that as a profession, we have distanced ourselves from the previous style of paternalistic medicine that too often affected patient interactions."* (R057)

Students described role modelling, interprofessional education, multi-professional socialisation and previous work experience in ancillary roles as positively influencing their attitudes to and relationships with allied healthcare professionals. As they had rotated through multiple sites and services, students were able to compare different interprofessional practices and to identify outlying examples for good or suboptimal practice. Having witnessed 'best practice' or a 'good idea', students were keen to recommend this for adoption across the system. Suggestions included team lunches and other social opportunities to build functioning teams, proactive engagement of juniors by team leaders, verbal team updates/huddles, effective use of ward whiteboards to improve task prioritisation and flow, and ward rounds and meetings that actively include the wider multidisciplinary team.

Students discussed how the benefits of multidisciplinary working also enhance primary care, suggesting and witnessing MDT approaches to complex patients. They advocated shared electronic records between primary, secondary and emergency services; and dedicated communication channels to facilitate interdisciplinary discussions between GPs and specialists *"to reach an appropriate specialist within minutes instead of having to write to the consultant and waiting days for a response or sending the*

patient to hospital' (R166). Some students not only proposed improvement ideas but also researched evidence and constructed detailed plans for implementation.

Discussion

This article has set out the overarching findings derived from a study of second-year medical students' responses to a formative task to describe, evaluate and reflect on experiences of interprofessional working. Students' essays highlight the culture that they are being socialised into: one of contextual tensions driven by workforce pressures and infrastructural challenges, as well as hierarchical and tribal intra- and inter-professional social structures. Their essays reveal the processes by which students make sense of their experiences of interprofessional practices in the workplace. We have shown that, faced with mixed messages, students are able to question and criticise practices where they deem them to be ineffective or suboptimal, and that they will identify with and aspire to emulate examples of good practice and positive relationships. Students link mutually respectful and trusting collaborative practices and processes to safer and more efficient patient care and to better staff engagement and morale. Their analysis of contextual tensions translates into enthusiasm for quality improvement and system change.

The research literature offers as yet limited studies of students' views on the quality of interprofessional collaboration and communication experienced during their placements. Structured summative reflection tends to be limited in scope and uncritical of the interactive and communicative behaviours observed by students (17) (18) with criticality potentially compromised by writing for a desired grade (19). The few studies that have invited students to comment on the interprofessional conducts observed during their clinical placements consistently highlight the importance of clinicians' ability to enact positive and productive relationships, and engage in effective teamwork (20) (21). Their findings are confirmed through our research.

Our research highlights the engagement of these junior students in voicing their criticisms, praising and adopting the practices that support good patient care, and providing both creative and constructive suggestions for improvement. Interestingly, although students were able to analyse and make suggestions for change, none of them described engaging team members in conversations about change. Contrary to Shaw's findings (10) we encountered neither reports nor encouragements of acts of resistance, perhaps due to the junior status of the students involved. Their liminality, as uninitiated participants in the workplace culture, may have provided them with fresh eyes on old problems, but not the legitimacy to initiate change.

The study did however identify expressions of respect for clinicians working in challenging circumstances, and comments seeking to contribute to enhancing the safety and quality of care provision. While resistance to unacceptable conduct by seniors no doubt plays a role in safeguarding novices' moral-ethical integrity, the present study provides an alternative response to witnessing suboptimal behaviours. That is, analysing the drivers to those behaviours ('why do good people do bad things?') and adopting a systems approach to mitigating or navigating contextual and social tensions.

We argue that placing an expectation on students to 'resist' may prove unworkable and unnecessary in practice, as revealed by this study. It is not practical given their position in a complex, interconnected and hierarchical workplace. If students feel unable to resist, there is the potential for disengagement, disillusionment and 'moral erosion,' particularly if they are unable to reconcile the cognitive dissonance between the ideal and what they see practised.

Team behaviours do not result solely from an individual's decisions and attitudes, but are also rooted in more broad-ranging and pervasive organisational culture, team dynamics and contexts (22). This task created a safe space for students to articulate the contextual drivers behind interprofessional behavioural shortcomings, as well as achievements. It may have enabled negotiation of more constructive ways forward to behavioural variants than withdrawal or resistance. Our finding that students share an interest in practice improvement and team strengthening, and that they are able to learn constructively from both positive and negative experiences, is therefore not just heartening but significant.

We do not claim that students' essays are an accurate representation of interprofessional behaviours or that students' suggestions for improvement are realistic or actionable. Students were not trained ethnographers, and may lack adequate self-awareness or contextual insights. Furthermore, they will have complex relationships with their placement sites and clinical teachers: they may have felt anxious to report shortcomings, or that reflecting honestly could be held against them. Reticence to reflect openly may have been heightened as the assignment was set during the high-profile court case of Dr Bawa-Garba (23, 24). The assignment was designed to feed into a small group discussion with their GP tutor the following week, and their reflections will have been written for this audience.

The task engaged over 300 students in recording observations of teamwork during their placements, which may have achieved several critical aims. First, enabling students to articulate their experiences of care as a social process, focusing not on clinical-technical detail but on context, relationships, feelings and practices. Second, constructively engaging students in an analysis of team behaviours 'as practised' rather than 'as ideal' added authenticity to the learning activity. Third, students that completed the assignment would be primed to share, and thereby consolidate, their sensitivities and strategies regarding team behaviours at the follow-up workshop, potentially enhancing the depth of discussion there. This research could have been strengthened by observing and analysing some of this small group work. Finally, the activity takes steps to address and evidence some of the 'difficult to teach, difficult to assess' educational standards articulated by the regulators of doctors in the UK (25). These standards emphasise collaborative practice under conditions of complexity and diversity, communication about matters including clinical-technical as well as socio-cultural and moral-ethical dilemmas, and the ability to negotiate ways forward amidst inevitable uncertainty and unavoidable compromise.

Conclusions

This study prompts healthcare practitioners to think about their interprofessional culture and practices, and the factors that drive behaviour in the clinical environment. However educators will need to focus on

how to enable students to respond positively to what they see, and how to enable them to develop the skills to navigate an uncertain, changing and occasionally dysfunctional workplace. Rather than teaching an idealised form of communication driven by academic values, we suggest that educators start by asking students to study and respond to the realities of the workplace context and culture.

The assignment itself appears to have contributed meaningfully to students' learning about workplace cultures and relationships: two facets of healthcare education that are considered key in the care of patients, yet difficult to define, teach or assess, other than through abstract principles and distant ideals (26). Educators might consider providing similar safe, reflective spaces for students to articulate and process their experiences of interprofessional working and to share examples of excellence and ideas for improvement. This model targets students' lived experiences of workplace practices in the first instance, as raw material for systems thinking and service analysis.

A final legitimisation of seeking students' views would be to integrate them into feedback to students' placement sites as potential topics for quality improvement and change. This would obviate the unrealistic scenario where the uninitiated are expected to challenge established practices and professional hierarchies. It would however require medical schools to adopt a culture that is more responsive and open towards their students, and to act as their advocates in a learning process with the healthcare services providing placements.

Declarations

Ethics approval and consent to participate

Research ethics were approved by the Research Ethics Committee of King's College London Ethics Ref: LRS-17/18-4884.

Consent for publication

Not applicable. We confirm that participants gave written informed consent for the publication of anonymised quotations from their interview transcripts.

Availability of data and material

The datasets generated and/or analysed during the current study are not publicly available due to concern that it would enable establishments or individuals to be identified due to rich contextual detail. Anonymised redacted transcripts are available from the corresponding author on reasonable request on condition that they are not published in their entirety. Please direct requests to the corresponding author.

Competing interests

There are no competing interests to declare.

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Authors' contributions

KLG, AK and RI all contributed to the design of the study, data collection, data analysis and writing up. All authors read and approved the final manuscript.

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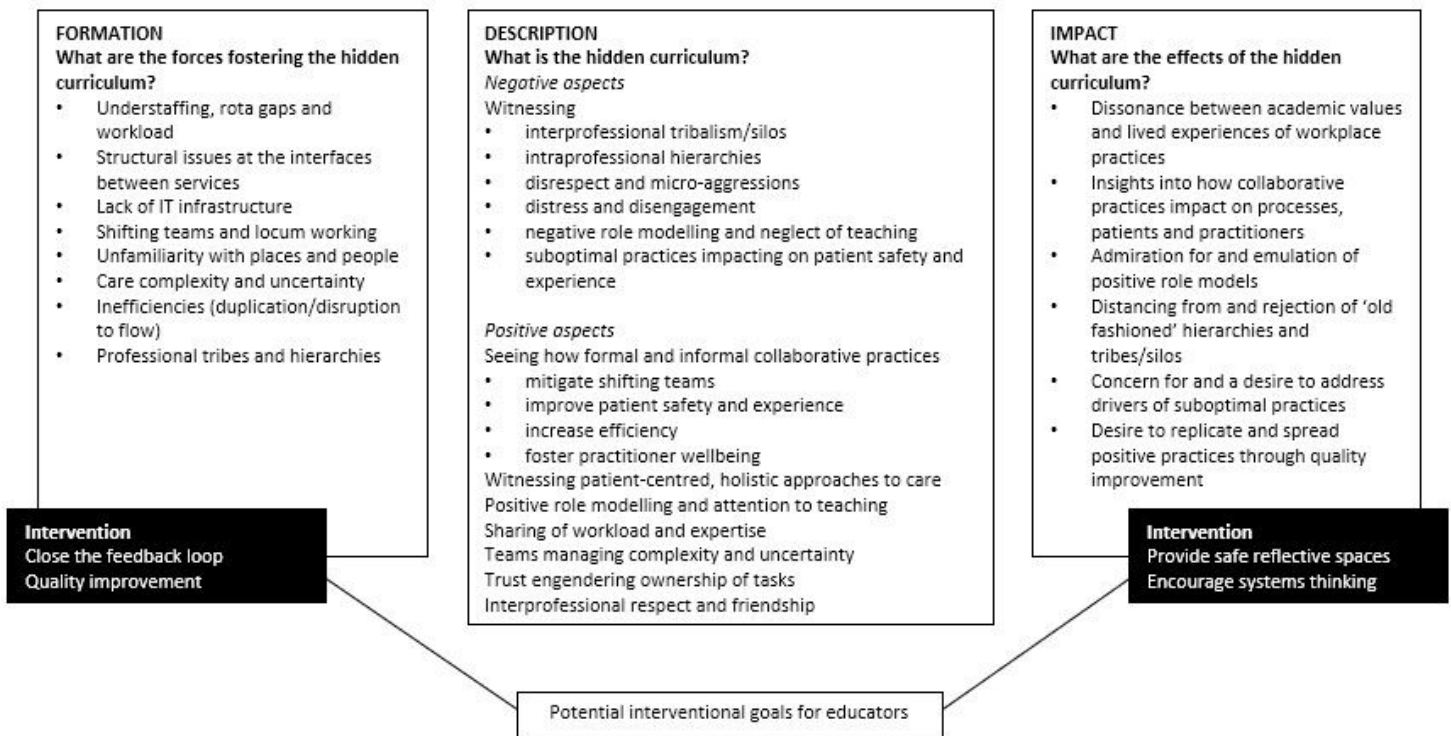
Table 1

Table 1: Students' suggestions for improved interprofessional working

Relationship building	<ul style="list-style-type: none"> · Healthcare professionals taking time to introduce themselves to colleagues when visiting wards would help to avoid misunderstandings · Weekly multi-disciplinary team lunch could facilitate relationship building, practitioner wellbeing, and mitigate shifting teams · Active support for good relationships between different members of the MDT would help facilitate a multidisciplinary approach to problems
Patient dignity	<ul style="list-style-type: none"> · Interprofessional and interpersonal issues should be dealt with away from patients · Holding MDT meetings behind doors and not in the open ward would help to preserve patient confidentiality and dignity
Support for novices and juniors	<ul style="list-style-type: none"> · Actively inviting junior nurses, doctors and midwives to speak up and ask for help could help to overcome hierarchy · Hospitals and wards providing written guides would help to support new doctors and locums to work more effectively · Wards keeping a list of patients consented for medical students to see would mean that students would not have to keep asking senior nursing staff
Interfaces between services	<ul style="list-style-type: none"> · Give paramedics direct access to patient records to support diagnosis, improve care and reduce admissions · Give hospitals access to primary care patient records to improve A&E efficiency and safety · Primary care doctors would benefit from direct telephone access to specialists, to consult on the effective care of complex conditions, improving patient confidence in their care · Centralising patient records would avoid duplication of scans, tests and investigations, and facilitate sharing of expertise
Collaborative practices	<ul style="list-style-type: none"> · Doctors and nurses could come together to explain results to patients, draw on each other's skills, and ensure information is both correct and communicated well · Nursing staff could proactively share the workload of surgeons during surgical admission, giving surgeons more time to respond to patient questions and concerns during the consent process · Include surgeons in MDT meetings to give them opportunities to meet new staff and to discuss the care of their patients · Enable pharmacists to join the main ward round rather than conduct their own, to help to avoid fragmentation of care and disruption to patients · Involve junior staff (as witnessed on a labour ward) to give more patients a voice through their closest carer · Institute multidisciplinary ward rounds to give junior midwives would have more of a voice · Multidisciplinary primary care meetings, to discuss regular or complex patients, would help to share expertise and understanding

- A mid-day huddle would help ensure that developments and issues were communicated verbally across the team, reducing errors
- Team huddles, rather than relying on others to find and read notes, would allow questions, improve care and facilitate the discharge process
- Greater use of traffic light systems on ward whiteboards would help to communicate task prioritisation and coordinate patient discharge
- 'Parking' questions until a handover presentation had been completed would help to ensure that there was an organised flow of information

Figures



Thematic analysis of second year medical students' formative coursework, describing, evaluating and reflecting on their experiences of interprofessional behaviours attitudes and practices, mapped onto Haidet & Teal's model for deconstructing hidden curricula (Haidet & Teal, 2015) in (Hafferty & O'Donnell 2015, p84).

Figure 1

The hidden interprofessional curriculum through the eyes of medical students