Evaluation of training programmes mapped to the new internal medicine curriculum

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In preparation for the internal medicine training (IMT) programme introduced in 2019, the core medical training (CMT) programme in London was made ‘IMT-ready’ in 2018 by creating new rotations that reflected the compulsory requirements of the first 2 years of the IMT curriculum, including provision of the requisite number of critical care placements. Core medical trainees completed posts within the ‘IMT-ready’ programme between August 2018 and August 2019, during which time the trainee experience was evaluated. A total of 497 responses were received. Of these, 96% of trainees were on an ‘acute unselected take’ on-call rota, 79% were able to attend outpatient clinics, 80% had the opportunity to practise procedural skills and 88% had the opportunity to apply palliative care skills. Clear areas for improvement were identified that predominately focused on the need to optimise trainee attendance of outpatient clinics and the number of patients seen during an acute take. With respect to future career intentions, only 63% of trainees planned on applying to a group 1 (with general medicine) higher medical specialty. Thematic analysis of trainees in critical care placements highlighted an appreciation of the level of senior support, feeling well integrated into the team, a positive experience of induction and excellent opportunities for performing procedures.

**KEYWORDS:** Training programmes, internal medicine, IMT, curriculum

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Introduction

National postgraduate educational agendas for physicians, particularly the Shape of Training review and Future Hospital Commission report, set out a framework for refocusing training towards internal medicine with generalist skills relevant for an ageing population with increasing multimorbidity. As such, a new model for physician training has been introduced in 2019, consisting of 7 years of post-foundation level training, leading to a certificate of specialist training in internal medicine with a specialty. The first 3 years of this programme have been defined as internal medicine training (IMT) stage 1 (superseding 2 years of core medical training (CMT)), and the next 4 years of IMT stage 2 will supersede the current medical higher specialist training programmes and be divided into ‘group 1’ specialties that will dual train with internal medicine and ‘group 2’ specialties that will not.

The purpose of the IMT stage 1 curriculum is to produce doctors with the generic professional and clinical capabilities to manage patients presenting with a wide range of general medical symptoms and conditions, and to recognise, assess and care for acutely unwell patients. As such, it includes mandatory training in the ‘acute unselected take’, critical care, palliative care and outpatient clinics. IMT doctors learn in a variety of settings using a range of methods, including workplace-based experiential learning, formal postgraduate teaching and simulation-based education, and are assessed by their ‘capabilities in practice’.

In preparation for the first year of the IMT programme commencing in August 2019, the CMT programme in London was made ‘IMT-ready’ in August 2018 by creating new rotations that reflected the compulsory requirements of the first 2 years of the IMT curriculum, including provision of the requisite number of critical care placements. This reorganisation was made possible by successful liaison and collaboration between the School of Medicine, training programme directors (TPDs), training committees of IMT and medical specialties, and local trusts, along with decommissioning and recommissioning of some posts within the same funding envelope. CMT doctors completed posts within the ‘IMT-ready’ programme between August 2018 and August 2019, during which time the trainee experience was evaluated in order to assess how curricular requirements were being met, and to identify areas for improvement and gauge career intentions to help with workforce planning.

**Methods**

An interdisciplinary working group of educationalists and physicians from various medical specialties developed an electronic survey tool to gain insight into the trainee experience of various aspects of the IMT curriculum including ‘acute unselected take’, outpatient clinics, opportunities for procedural
Skill development, palliative care experience and critical care placements. Overall trainee satisfaction, educational supervisor support and future career plans were also assessed. The survey was sent to all 570 CMT doctors in London on three occasions (November; March; July) over a 1-year period between August 2018 and August 2019 with trainees being informed that analysis of the results would be disseminated to facilitate quality improvement of the IMT programme.

The survey incorporated questions requiring ‘Yes/No’ responses, ratings on a five-point Likert scale (very poor; poor; neither good nor bad; good; very good) and free-text feedback. Records of free-text feedback were transcribed into Microsoft Excel spreadsheets (version 16.25) with each response being kept as a separate datum point. All text was thematically analysed. Themes were developed by iteratively reading and regrouping the data. Each coded theme was discussed and checked; any discrepancies were discussed and if necessary re-evaluated for alternatives. Once themes were finalised, the data were rechecked and if necessary recoded as appropriate. A single response could be, and often was, coded against multiple themes. Thematic analysis was employed as a method of evaluating data in view of the opportunity to ‘generate interesting findings beyond the specific research questions for which the study was designed’.

Results

Four-hundred and ninety-seven responses were received from trainees in placements across 17 medical specialties. Sixty-four per cent of responses were from trainees placed at university teaching hospitals and 36% were from trainees placed at district general hospitals (DGHs). The overall experience and educational value of their placement was rated as good or very good by ≥70% of respondents, with no significant difference between university teaching hospitals and DGHs (Fig 1). Almost all (99%) trainees were able to identify their educational supervisor and 78% of trainees had met with their educational supervisor within 4 weeks of commencing a post (Fig 2). Ninety-six per cent of trainees were on an ‘acute unselected take’ on-call rota, 79% were able to attend outpatient clinics, 80% had the opportunity to practise procedural skills and 88% had the opportunity to apply palliative care skills during their rotation. Trainees fed back a need to improve on the number of clinics they could attend and the number of patients seen during an acute take (Table 1). With respect to future career intentions, 63% planned on applying to a group 1 specialty, 24% planned on applying to a group 2 specialty, 7% did not want to continue working in a medical specialty, and the remainder wanted to take time out of training without specifying subsequent intentions.

Eighty-three survey responses were received from trainees in critical care placements. Of these trainees, 92% were on the critical care on-call rota and took part in outreach services. The overall experience and educational value of the placement was rated as good or very good by 80% of trainees, and 86% of trainees reported gaining experience in palliative care and end-of-life care decisions. Thematic analysis highlighted four major themes of an appreciation of the level of senior support; feeling well integrated into the team; a positive experience of induction; and excellent opportunities for performing procedures.

Discussion

Trainees undertaking ‘IMT-ready’ programmes had a high level of opportunity to attain completion of curricular components applying to a group 2 specialty, 7% did not want to continue working in a medical specialty, and the remainder wanted to take time out of training without specifying subsequent intentions.

| Area | n (%) |
|------|-------|
| Number of clinics per month undertaken by IMTs | |
| 1–2 | 186 (61) |
| 2–3 | 77 (25) |
| 4–5 | 36 (12) |
| ≥6  | 7 (2) |
| Number of patients seen by IMTs during ‘acute unselected take’ | |
| ≤5  | 26 (10) |
| 5–9 | 182 (72) |
| 10–15 | 43 (17) |
| >15 | 2 (1) |

IMT = internal medicine training doctor.
The new IMT model for physicians training is the most important change to medical training for a generation and evaluation of its implementation is crucial to its success. The strengths of this study pertain to the large number of trainees surveyed and the study methodology devised by an interdisciplinary project group of trainees and trainers that incorporated a mixed-methods evaluation. In addition, data were captured from trainees working across different clinical settings that represent a broad range of exposure within IMT.

Limitations of the study included the low total response rate of only 29% (497 responses from 570 trainees surveyed three times) and the cross-sectional rather than longitudinal approach. The involvement of trainees in just one geographic area also limits the generalisability of the results across the UK. Survey response may also be skewed by self-selection bias, as colleagues with a particularly positive or negative experience may be most motivated to participate. However, with the aim of the study being to explore the effect of introducing IMT, appreciating both positive and negative experiences is informative and useful.

Mapping of the IMT curriculum to CMT in London resulted in the creation of posts that provided a positive trainee experience and identified areas for improvement to help meet curricular requirements. Ongoing assessment of career intentions of physicians in such training programmes may also help workforce planning for the future.

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