

# Do summative entrustment decisions actually lead to entrustment?

Vigfús Sigurdsson<sup>1</sup>  | Olle ten Cate<sup>2</sup> 

<sup>1</sup>Department of Dermatology and Allergology, University Medical Center Utrecht, Utrecht, The Netherlands

<sup>2</sup>Utrecht Center for Research and Development of Education, University Medical Center Utrecht, Utrecht, The Netherlands

## Correspondence

Olle ten Cate, Utrecht Center for Research and Development of Health Professions Education, University Medical Center Utrecht, 3508 GA Utrecht, The Netherlands.  
Email: [t.j.tencate@umcutrecht.nl](mailto:t.j.tencate@umcutrecht.nl)

## Abstract

**Background:** Entrustable professional activities (EPAs) were introduced across Dutch postgraduate programmes between 2017 and 2019. We aimed to understand the extent to which residents actually were granted increased clinical responsibility upon receiving summative entrustment for an EPA, a critical feature of its use.

**Methods:** A survey study was conducted among all Dutch residents who started dermatology training in 2018 and 2019 and all Dutch dermatology programme directors (PDs). We chose an EPA designed for early entrustment in residency (identification, treatment and care regarding a simple dermatological problem in the ambulatory setting). The survey contained two hypothetical clinical cases that aligned with this EPA. The questions were aimed to determine whether and when residents should request supervision. Similar questions were posed to PDs.

**Findings:** Twenty four residents (56%) and 19 PDs (79%) completed the survey. The majority of the residents (65%) and PDs (63%) confirmed that competent dermatology residents (level 4) are generally allowed to perform EPA1 unsupervised, particularly when seeing patients from GPs. However, still a substantial proportion of the level 4 residents, working in University Medical Centers (36%) indicated that they had to request supervision in the assessment of these patients. For 2nd opinions, the results were typically the opposite.

**Discussion and Conclusion:** This study demonstrated that, at least in one specialty and one country, the introduction of EPAs and entrustment decision making procedure generally led to the intended autonomy of the resident.

## 1 | INTRODUCTION

Entrustable professional activities (EPAs) are quickly becoming a new standard in competency-based education in various health professional education programmes,<sup>1-5</sup> while several questions of implementation still remain. One such question concerns the consequences of summative entrustment decisions for EPAs. These pertain to the readiness of trainees for autonomy, defined in terms of levels of supervision, ranging from 1 (observe only) to 5 (provide supervision to

juniors), with level 4 being the critical stage of 'readiness for unsupervised practice'.<sup>6,7</sup>

EPAs serve to operationalise competency-based medical education (CBME). EPAs are units of professional practice that can be entrusted to a trainee once they have demonstrated to possess the required competencies. The core asset of CBME is that trainees are being qualified for clinical practice as they demonstrate to meet the standards of quality and not simply because of the time they have been in training.<sup>6,8</sup> By breaking down the practice of a specialty into

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EPAs that can reasonably be overseen and assessed, there is more certainty that graduates have mastered each relevant unit of professional practice. Instead of qualifying trainees for the whole breadth of a specialty at the end of training, qualification per EPA at the moment the trainee has sufficient skill and experience allows for the experience of full responsibility while still formally in training.<sup>8</sup>

Residents in training typically act under the supervision of a specialist with final responsibility for the quality and safety of the care for patients attended by trainees. Fuelled by concerns over patient safety, some countries have severely restricted residents' delegated responsibilities in the past decades. This 'seniorisation' of patient care in teaching hospitals may not only serve patient safety but also interfere with the trainee's opportunity to build experience.<sup>9-12</sup> Some programmes adopt CBME formally, but not its core purpose, that is, moving from a fixed-length-variable-competence length programme to a fixed-competence-variable length programme.<sup>8</sup> A goal of EPAs in residency programmes is a step-wise development of progressive resident autonomy. Supervising clinicians have the authority to determine when, and to what extent, trainees are allowed to work with or without their supervision. This would also allow them to deviate from a general CBME policy and to make 'entrustment decisions' on paper without increase of autonomy in practice.<sup>13</sup>

*'Seniorisation' of patient care in teaching hospitals may not only serve patient safety but also interfere with the trainee's opportunity to build experience.*

EPAs were introduced in all postgraduate medical training programmes in the Netherlands between 2017 and 2019; for dermatology in 2019.<sup>2,14</sup> In this study, we aimed to understand whether the introduction of EPAs and entrustment decision making had led residents to being truly allowed to work unsupervised when deemed ready. Specifically, for this implementation question, we focused on residents and supervising clinicians in the specialty of dermatology.

*Have EPAs and entrustment decision making led residents to being truly allowed to work unsupervised when deemed ready?*

### **BOX 1** Case descriptions and answer options used for residents ('... you ...') and supervisors ('... a resident ...' or '... the resident ...')

#### **Case 1.**

You/A resident (granted level 4, EPA1) see(s) a new patient at the outpatient clinic. It is a referral from a general practitioner regarding patient with actinic keratosis. You/The resident see(s) scattered mild multiple actinic keratoses in the face and you/the resident have/has no suspicion of a skin cancer. You/The resident find(s) treatment with topical 5-fluorouracil appropriate. What should you/should the resident do in this situation?

#### **Case 2.**

You/A resident (granted level 4, EPA1) see(s) a new patient in the outpatient clinic at a university medical center (UMC) with mild acne. It is a referral from a dermatologist working in a community hospital, requesting a second opinion. The dermatologist in the community hospital intended to start topical treatment but the patient believed that the acne was caused by a food allergy. The dermatologist was unable to convince the patient that this was not the case. Therefore, the dermatologist referred the patient to the UMC. You/The resident see(s) very mild acne. After explaining again that the diagnosis is correct and that the acne is not caused by food allergy the patient accepts topical treatment. What should you/should the resident do in this situation?

#### **Answer options for both cases:**

a) You/The resident must ask for supervision because in your setting it has been agreed that all new patients must be seen by the supervisor.

b) You/The resident have/has to discuss the patient with the supervisor before you/he starts treatment. The supervisor decides self if he sees the patient or not.

c) You/The resident may start treatment independently, but you/he must take a clinical picture of the patient and show the picture and discuss the patient in the daily debriefing.

d) You/The resident may start treatment independently, but you/he must discuss the patient afterwards with the supervisor.

e) You/The resident may start treatment independently. No mandatory consultation/discussion afterwards with the supervisor is needed. A five-level scale to express a recommended level of supervision for a given EPA:

Level 1: The resident may be present but may not practise the EPA.

Level 2: The resident may practise the EPA under direct (proactive) supervision, with supervisor physically present in the room.



**TABLE 1** Residents' and PDs' answers to the survey questions about the hypothetical cases.

Case 1 (referral by GP)	a <sup>a</sup>	b	c	d	e
<b>Residents</b>					
All (N = 24)	3 (13%)	6 (25%)	0	2 (8%)	13 (54%)
Level 3 residents (N = 10)	1 (10%)	4 (40%)	0	1 (10%)	4 (40%)
Residents in UMCs <sup>b</sup> (N = 7)	1 (14%)	3 (43%)	0	1 (14%)	2 (29%)
Residents in ATHs <sup>c</sup> (N = 3)	0	1 (33%)	0	0	2 (67%)
Level 4 residents (N = 14)	2 (14%)	2 (14%)	0	1 (7%)	9 (65%)
Residents in UMCs (N = 11)	2 (18%)	2 (18%)	0	1 (9%)	6 (55%)
Residents in ATHs (N = 3)	0	0	0	0	3 (100%)
<b>PDs</b>					
All (N = 19)	1 (5%)	0	0	6 (32%)	12 (63%)
UMCs (N = 7)	0	0	0	2 (29%)	5 (71%)
ATHs (N = 12)	1 (8%)	0	0	4 (33%)	7 (59%)
<b>Case 2 (2nd opinion)</b>					
<b>Residents at UMCs</b>					
All residents (N = 18)	6 (33%)	9 (50%)	0	1 (6%)	2 (11%)
Level 3 residents (N = 7)	3 (43%)	4 (57%)	0	0	0
Level 4 residents (N = 11)	3 (28%)	5 (45%)	0	1 (9%)	2 (18%)
<b>PDs at UMCs</b>					
All PDs (N = 7)	1 (14%)	4 (57%)	0	0	2 (29%)

<sup>a</sup>a = must ask a supervisor to see the patient; b = must discuss case with supervisor prior to attending the patient; c = may initiate treatment but must take a picture of the lesion for a team discussion same day; d = may treat patient unsupervised and debrief with a supervisor; e = may treat patient unsupervised; consultation nor debrief required (see Box 1 or more elaboration).

<sup>b</sup>UMC = University Medical Center.

<sup>c</sup>ATH = affiliated teaching hospital.

For second opinions (Case 2), the results were notably different. Of the 11 residents qualified at level 4 for EPA1, 73% (N = 8) indicated that asking for supervision was still mandatory. Three (28%) indicated that the supervisor had to examine the patient (answer a – see box 1) and five (45%) that they had to consult the supervisor before deciding to treat (answer b – see box 1). Two residents (18%) acknowledged to be allowed to practice unsupervised, and one (9%) was expected to ask for post hoc supervision. The answers of PDs were quite similar, with 71% regarding supervision as mandatory. One PD (14%) indicated that a supervisor should see the patient (answer a) and 4 (57%) that residents would have to consult the supervisor before deciding upon treatment (answer b). Two PDs (29%) indicated that the residents were allowed to practice unsupervised.

## 4 | DISCUSSION

Thoughtful summative entrustment decisions are meant to qualify a trainee for a level of supervision. Data gathered from the majority of the residents (65%) and PDs (63%) participating in this survey confirmed that 'competent' dermatology residents in the Netherlands (i.e., those granted level 4) are indeed generally allowed to work unsupervised, as intended in national PGME curricula.<sup>2</sup> This finding held particularly true for patients referred by GPs (Case 1) and for the

example of dermatology EPA1 that we investigated. It is striking, however, that four (36%) level 4 residents working in UMCs indicated that they were still obliged to have a supervisor participate in the assessment when the patient was referred by a GP. This could be a local or contextual phenomenon, and we could not verify whether these residents trained in the same UMC. It is also striking that this was not reflected in the answers of the UMC PDs, 71% of whom confirmed that level 4 residents are actually allowed to practice EPA1 unsupervised, regularly (29%) with minimal control afterwards (answer d). We cannot fully explain this difference between the residents and the PDs. We only surveyed PDs and did not include all supervisors at the training centres, which leaves the possibility that some supervisors differ in opinion with the PD.

*'Competent' dermatology residents in the Netherlands (i.e., granted level 4) are indeed generally allowed to work unsupervised.*



## ETHICAL APPROVAL

The Ethical Review Board of the Netherlands Association for Medical Education approved this study (NERB#2020.2.4).

## ORCID

Vigfús Sigurdsson  <https://orcid.org/0000-0001-5242-2887>

Olle ten Cate  <https://orcid.org/0000-0002-6379-8780>

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