# PEER REVIEW HISTORY

BMJ Open publishes all reviews undertaken for accepted manuscripts. Reviewers are asked to complete a checklist review form and are provided with free text boxes to elaborate on their assessment. These free text comments are reproduced below.

## **ARTICLE DETAILS**

## Title (Provisional)

Clinical placements of medical students during a rapid scale-up of health professional education: a qualitative study

## Authors

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VERSION 1 - REVIEW	
Reviewer	1
Name	Lee, Ching-Yi
Affiliation Neurosurgery	Chang Gung Memorial Hospital Linkou Main Branch,
Date	10-Aug-2024
COI	None

## **Comments to the Author:**

The manuscript addresses a critical issue in healthcare education, specifically the impact of scaling up health professional education (HPE) on clinical placements in Ethiopia. The authors employed a qualitative approach, utilizing focus group discussions and constructivist grounded theory to explore the consequences of this rapid expansion on various aspects of clinical training. The study's focus on the adequacy of skilled clinicians, student preparedness, learning environment, and the overall clinical competence of students is both timely and relevant, given the global emphasis on improving healthcare workforce capacity. The manuscript is generally well written. However, significant revisions are necessary to strengthen the clarity, depth, and coherence of the arguments presented. The following comments are provided to assist the authors in enhancing the quality of their manuscript.

The manuscript mentions that many teaching practices bypass clinical teachers, with residents taking on these roles instead. As a result, the evaluation of the clinical setting lacks an additional perspective. The evaluation outputs focus on a single aspect of competence, which diverges from the intended purpose of clinical student assessment. The manuscript states that there is a lack of training in surgical and hands-on techniques, yet the majority of the teachers

are from surgical backgrounds. Could this lead to a potential bias in the focus group discussions? Could the lack of widespread use and infrequent application of evaluation tools also be a factor affecting the results?

1. The term "consequences" was used in title and research question, but the design of the study was not adequate for elaborating overall consequences of this national policy. Rephrasing the title and research question should be considered.

2. For data collection, I am convinced that the author used some tools for audio-recording. However, audiotape seemed to be out of date. Did the authors use audiotapes for recording?

3. Mean age of students and clinician teachers were provided in table 1. The range of ages of participants should also be provided for presenting their characteristics. In addition, the participant profile after the quotation should be coherent. Please elaborate the reason for the absence of age detail of clinician-teacher while remaining the presence of age details of students in quotations. I consider the age factor being more important in clinician-teacher aspect because it may somehow reflect seniority and teaching experiences.

4. In theme 3, the term "significant intern jobs" seems to be obscured. Meanwhile, the following descriptions were less related to learning environment comparing with the theme of extent of practice exposure.

5. In the section of conclusion, the author made some suggestions for improving the overall HPE. However, those suggestions were not resulted from their study. Those definite statements were inappropriate to be placed in this section.

Reviewer	2
Name	Ng, Ka Ying Bonnie
Affiliation Human Developme	University of Southampton Faculty of Medicine, School of nt and Health
Date	03-Feb-2025
COI	Nil

Abstract

- Health professional education- need to define the acronym (HPE)
- 'frugal responses taken' It is unclear what these are and how they would potentially impact the experience of students/teachers.
- Within the objectives, a definition of the 'scale up' would need to be detailed as it is unclear to the reader what this means

Strengths and limitations of the study

- The authors state that there would be transferability of the study findings. However, within this qualitative study, the sample may have selection bias and the findings may not be application in a different setting.
- Would need to state that selection bias may be present and that needs to be caution in extrapolating the findings to other healthcare settings or teaching schools.

### Introduction

- The authors have described drivers for the 'scale up' and also the changes that have happened giving some examples of how they relate to to healthcare in other countries such as physician density.
- It would be beneficial to clarify whether this 'scale up' is an ongoing thing or whether there are different phases of the 'scale up' and where does this stay fit within the whole 'scale up' timeline?
- A summary of the Ethiopian medical student training pathway would be useful to be general reader who will not have knowledge of how training works there. When is there clinical exposure and how are students taught?
- Need to define what 'frugal responses' are and also give examples. Are these driven by the changes that occur on national level and who decides these?

#### Methods:

- 'constructivist grounded theory' please explain more about this method. Why was it chosen over other methods?
- Similar to point raised in intro- can you specify where this study fits within the 'scale up' timeline. Is it an ongoing process or was the study performed after a major scale up had happened?
- Why only 6 schools sampled- was it for practicality or was there a reason why these particular schools were sampled?
- The authors mention their sampling allows 'generalizability of the study findings to various types of medical schools'. However, this would need to be revised since 6/43 is 14% of schools and within that there will be even smaller proportion of students/educators sampled. So there needs to be caution in generalisation of findings.
- The authors should also clarify whether there was a difference in the teaching styles or curriculum that was followed. Do they follow national guidance or are the medical schools quite different?
- Study participants- how were the 53 PGD participants chosen?
- HPE experts reviewed the guide- how many and how were they chosen?
- Clarify whether the 6 participants in each FGD group were from the same medical school or were they mixed.
- Were there any exclusion criteria for the participants?
- Clarify how the transcripts were translated and whether there is any chance that some of the experiences or feelings/views of the participants will be lost when translation took place?
- Within the data collection section of methods, please clarify how the FGD groups were run. Was there a facilitator and were there any other people there to help? What was the facilitator's relationship with the participants? Was it done in person? Could there have

been any limitations in what the student/educator expressed within the session due to concerns that it would impact their training for example?

- Please calarify how the datasets were stored in a secure place-locked/password protected for eg.

#### Results

- 29% female students and 12% female teachers. Is this representative and if not then what was the cause of this bias- discussion point.
- Many of the themes were explored superficially. There are several themes which overlap, for example theme 1 and theme 3 overlap and I wonder whether the authors would consider amalgamating some themes to create themes discussed in greater depth.
- Some of the themes had quotes from the students only or teachers only but it may be useful to have more balanced quotes from both parties within each theme.
- Within theme 5 the second quote 'students should have been told what they should achieve...' is this related to the clinical supervision that students get or the overall structure of the teaching within their medical school and the curriculum or learning objectives being made transparent to them? It would be good to get clarification on this as it falls within supervision section but it unclear other influencers.
- Theme 6 any expansion on what the 'unrelated orders' might be?
- The quotes seem to be quite brief and superficial. If there are any quotes that give more depth and detail to the theme then please consider including.

#### Discussion

- Similar point of the transferability as detailed above. Transferability to other medical schools/sites would need to be done with caution.
- Discussion point- does the medical school age affect the student experiences? As it was mentioned before that there have been many new schools set up. Are they all similar in structure and is there a difference between rural and urban schools?
- Would need to clarify why authors think that these findings can be expanded to primary care setting. Another study the identify the experiences of students/educators in the primary care setting would be useful rather than extrapolation from this dataset.
- Interesting point would be the economic impact of the scale up and the implications of these findings for future directions.

Comments from the Reviewer 1	Our Responses
The manuscript addresses a critical issue in	Thank you for your encouragement and for
healthcare education, specifically the impact of	acknowledging the values of our research
scaling up health professional education (HPE) on	studies. Based on the reviewers/ comments, we
clinical placements in Ethiopia. The authors	did revisions across the sections of the
employed a qualitative approach, utilizing focus	

### **VERSION 1 - AUTHOR RESPONSE**

group discussions and constructivist grounded	manuscript to improve clarity, depth, and
theory to explore the consequences of this rapid	coherence of our arguments.
expansion on various aspects of clinical training.	
The study's focus on the adequacy of skilled	
clinicians, student preparedness, learning	
environment, and the overall clinical competence	
of students is both timely and relevant, given the	
global emphasis on improving healthcare	
workforce capacity. The manuscript is generally	
well-written. However, significant revisions are	
necessary to strengthen the clarity, depth, and	
coherence of the arguments presented. The	
following comments are provided to assist the	
authors in enhancing the quality of their	
manuscript.	
The manuscript mentions that many teaching	We agree with this comment because having
practices bypass clinical teachers, with residents	the perspectives of residents, hospital staff,
taking on these roles instead. As a result, the	patients, and other stakeholders was important
evaluation of the clinical setting lacks an	to strengthen the study's findings.
additional perspective.	Please note that we acknowledged the lack of
	additional perspectives from residents and
	others as part of the limitations of this study
	Please see this on page 3.
The evaluation outputs focus on a single aspect of	In this study, we focused on the essential
competence, which diverges from the intended	clinical competencies of graduates to measure
purpose of clinical student assessment.	HPE outcomes. While diverse skills are
	required for medical doctors, we assessed
	history taking, physical examination, diagnosis,
	management of common diseases, basic
	medical procedures, and surgical skills of
	medical graduates. We also assessed their
	communication and collaboration skills. We
	believe these skills are very much related to the
	outcomes of clinical placements. For
	practicality issues, we could not assess other
	skill sets. We recommend that future studies are

	required to assess other aspects of the graduates'
	competence. Please see the change in the
	conclusion section on page 17
The manuscript states that there is a lack of	One of the major findings of our study was that
training in surgical and hands-on techniques, yet	medical graduates were challenged to conduct
the majority of the teachers are from surgical	procedural and surgical skills due to student
backgrounds. Could this lead to a potential bias in	overcrowding, limited patients, the shortage of
the focus group discussions? Could the lack of	hands-on practice, supervision, medical
widespread use and infrequent application of	supplies, and competitions for practice. Student
evaluation tools also be a factor affecting the	assessment could be one contributing factor that
results?	was found to have flaws in our study. However,
	the FGD participants did not link the skills gaps
	with student assessment.
	When we asked about medical procedures and
	minor surgeries, procedural skills needed for
	medical, obstetrics, gynecology, surgical, and
	pediatrics cases were considered. We used a
	balanced number of internists, surgeons,
	pediatricians, and obstetricians & gynecologists
	as FGD participants. We believe that we have
	minimized the risk of bias in this regard.
The term "consequences" was used in title and	We have revised the title and research question.
research question, but the design of the study was	1
not adequate for elaborating overall consequences	Please see the changes on pages 1, 2 and 5
of this national policy. Rephrasing the title and	Trease see the changes on pages 1, 2 and 5
research question should be considered.	
For data collection, I am convinced that the author	Yes, audio tape is an outdated apparatus. It is a
used some tools for audiorecording. However,	typo, and we used a digital apparatus named –
audiotape seemed to be out of date. Did the authors	"Sony digital voice recorder"
use audiotapes for recording?	Please see the corrections made on page 7
Mean ages of students and clinician teachers were	Based on your comments, we added the age
provided in Table 1. The range of ages of	ranges for FGD-participating students and
participants should also be provided for presenting	clinician-teachers.
their characteristics.	Please see the changes in Table 1 on page 8

be coherent. Please elaborate the reason for the absence of age detail of clinician-teacher while remaining the presence of age details of students in quotations. I consider the age factor to be more important in the clinician-teacher aspect because it may somehow reflect seniority and teaching experiences.Now, we decided to include two indirect identifiers (sex and age range) and use ther consistently.In theme 3, the term "significant intern jobs" descriptions were less related to learning environment comparing with the theme of extentOur definition of a clinical learnin part. Since assigning tasks to medical interns i part of clinical work management, we consider		
absence of age detail of clinician-teacher while remaining the presence of age details of students in quotations. I consider the age factor to be more important in the clinician-teacher aspect because it may somehow reflect seniority and teaching experiences.Now, we decided to include two indirect identifiers (sex and age range) and use ther consistently.In theme 3, the term "significant intern jobs" descriptions were less related to learning environment comparing with the theme of extentOur definition of a clinical learning part. Since assigning tasks to medical interns i part of clinical work management, we consider	The participant profile after the quotation should	It was just our preference to use sex,
remaining the presence of age details of students in quotations. I consider the age factor to be more important in the clinician-teacher aspect because it may somehow reflect seniority and teaching experiences. In theme 3, the term "significant intern jobs" Our definition of a clinical learnin seems to be obscured. Meanwhile, the following descriptions were less related to learning environment comparing with the theme of extent part of clinical work management, we consider	be coherent. Please elaborate the reason for the	department, and university of clinician-teachers
<ul> <li>in quotations. I consider the age factor to be more important in the clinician-teacher aspect because it may somehow reflect seniority and teaching experiences.</li> <li>In theme 3, the term "significant intern jobs"</li> <li>Our definition of a clinical learnin environment captures work management as part. Since assigning tasks to medical interns i part of clinical work management, we consider</li> </ul>	absence of age detail of clinician-teacher while	in the quotes.
important in the clinician-teacher aspect because it may somehow reflect seniority and teaching experiences.consistently.In theme 3, the term "significant intern jobs"Our definition of a clinical learning environment captures work management as part. Since assigning tasks to medical interns i part of clinical work management, we consider	remaining the presence of age details of students	Now, we decided to include two indirect
may somehow reflect seniority and teaching experiences.         In theme 3, the term "significant intern jobs"         Our definition of a clinical learning seems to be obscured. Meanwhile, the following descriptions were less related to learning environment captures work management as part. Since assigning tasks to medical interns i part of clinical work management, we considered to the set of the	in quotations. I consider the age factor to be more	identifiers (sex and age range) and use them
experiences. In theme 3, the term "significant intern jobs" Our definition of a clinical learnin seems to be obscured. Meanwhile, the following descriptions were less related to learning environment comparing with the theme of extent part of clinical work management, we consider	important in the clinician-teacher aspect because it	consistently.
In theme 3, the term "significant intern jobs" Our definition of a clinical learning seems to be obscured. Meanwhile, the following descriptions were less related to learning environment comparing with the theme of extent part of clinical work management, we consider	may somehow reflect seniority and teaching	
seems to be obscured. Meanwhile, the following descriptions were less related to learning environment comparing with the theme of extent part of clinical work management, we consider	experiences.	
descriptions were less related to learning part. Since assigning tasks to medical interns i environment comparing with the theme of extent part of clinical work management, we consider	In theme 3, the term "significant intern jobs"	Our definition of a clinical learning
environment comparing with the theme of extent part of clinical work management, we conside	seems to be obscured. Meanwhile, the following	environment captures work management as a
	descriptions were less related to learning	part. Since assigning tasks to medical interns is
of practice exposure. this finding about internship jobs to be relevan	environment comparing with the theme of extent	part of clinical work management, we consider
	of practice exposure.	this finding about internship jobs to be relevant
to the theme of the clinical learnin		to the theme of the clinical learning
environment. Therefore, we kept it in the them		environment. Therefore, we kept it in the theme
3.		3.
Please note that we have revised the theme an		Please note that we have revised the theme and
the languages of this finding to make it mor		the languages of this finding to make it more
explicit. Please see the changes on page 11		explicit. Please see the changes on page 11
In the section of the conclusion, the author made Based on this comment, we revised the	In the section of the conclusion, the author made	Based on this comment, we revised the
some suggestions for improving the overall HPE. conclusion in the main text and abstract. In the	some suggestions for improving the overall HPE.	conclusion in the main text and abstract. In the
However, those suggestions were not resulted revisions, we made the recommendation	However, those suggestions were not resulted	revisions, we made the recommendations
from their study. Those definite statements were highly supported by the findings. Please see the	from their study. Those definite statements were	highly supported by the findings. Please see the
inappropriate to be placed in this section. changes on pages 2 and 17	inappropriate to be placed in this section.	changes on pages 2 and 17

Comments from Reviewer 2	Our Responses
Abstract	
• Health professional education- needs to	Thank you for the valuable comments.
define the acronym (HPE)	• We have added the acronym HPE in the
• 'frugal responses taken' It is unclear what	abstract section for "health professional
these are and how they would potentially	education".
impact the experience of	• Frugal responses meant to be adjustments
students/teachers.	made by the schools to address the
• Within the objectives, a definition of the	challenges in clinical placement posed by the
'scale up' would need to be detailed as it	HPE scale-up efforts. We revised the phrase
is unclear to the reader what this means	'frugal responses taken' across all sections

	• We revised the objective in the abstract
	indicating the definition of HPE scale up.
	Please see the changes on page 2
Strengths and Limitations of the Study	
- The authors state that there would be	Based on this comment, we strengthened the
transferability of the study findings. However,	limitations by making the possibility of
within this qualitative study, the sample may have	selection bias in our study more explicit. We
selection bias and the findings may not be	also stated that caution should be taken while
application in a different setting. Would need to	extrapolating the findings to other settings.
state that selection bias may be present and that	Please see the change on page 3
needs to be caution in extrapolating the findings to	
other healthcare settings or teaching schools.	
Introduction	
The authors have described drivers for the 'scale	It is known that countries regularly and
up' and also the changes that have happened	gradually open HPE schools and academic
giving some examples of how they relate to	programs. However, these measures have not
healthcare in other countries such as physician	helped to address the workforce demands.
density It would be beneficial to clarify whether	Therefore, there is a need for rapid HPE scale-
this 'scale up' is an ongoing thing or whether there	up to increase the national workforce stock. In
are different phases of the 'scale up' and where	Ethiopia, the rapid scale-up of HPE has been
does this stay fit within the whole 'scale up'	happening since 2005.
timeline?	Based on this comment, we made changes in the
	introduction. Please see the change on page 4
A summary of the Ethiopian medical student	We added a brief description of the medical
training pathway would be useful to be general	education training pathway in the introduction
reader who will not have knowledge of how	section.
training works there. When is there clinical	Please see the change on page 4
exposure and how are students taught?	
- Need to define what 'frugal responses' are and	Frugal responses are meant to be interventions
also give examples. Are these driven by the	and solutions taken by medical schools to
changes that occur on national level and who	mitigate the impact of HPE scale-up. Based on
decides these?	this comment, we have revised the language as
	adjustments made. We also included key
	adjustments: clinical rotations, hiring of
	clinicians, engaging methods, and assessment
	tools.
	10015.

	Please see the changes on page 2 and 5
Methods	
Methods In the methods section: 'constructivist grounded theory' please explain more about this method. Why was it chosen over other methods?  - Similar to point raised in intro- can you specify where this study fits within the 'scale up' timeline. Is it an ongoing process or was the study performed after a major scale up had happened? - Why were only 6 schools sampled- was it for	Generally, grounded theory helped us to generate rich and new data in a flexible manner consistent with the local reality because it is based on theories from the previous steps. We added some descriptions about the method and reasons why we opted to use this study. Please see the change on page 5 Yes, we include a timeframe for the rapid expansion of HPE. Please see the change on page 5 Yes, feasibility is the consideration we took
- why were only 6 schools sampled- was it for practicality or was there a reason why these particular schools were sampled?	while including only six med schools. We believe that a limited number of FGD samples from the six schools helped us to generate data in depth. To clarify this point, we made a change in the text on page 5
- The authors mention their sampling allows 'generalizability of the study findings to various types of medical schools' However, this would need to be revised since 6/43 is 14% of schools and within that there will be even smaller proportion of students/educators sampled. So there needs to be caution in the generalization of findings.	Thank you for this valid comment. We wanted to emphasize that we selected representative medical schools. Through this selection process. our findings could give a comprehensive picture of the status of clinical placements in other similar schools. Yes, we should be cautious in generalizing the findings to other schools or hospitals Based on this comment, we have revised the text on pages 5 & 6.
The authors should also clarify whether there was a difference in the teaching styles or curriculum that was followed. Do they follow national guidance or are the medical schools quite different?	This is a good point. Medical schools in Ethiopia implement a nationally harmonized competence-based curriculum. We clarified this in the text on page 6.

- Study participants- how were the 53 PGD	We selected a recommended method of
participants chosen?	participant selection in grounded theory studies.
	We used a theoretical sampling approach to
	select appropriate participants guided by
	theories that emerged from the earlier data. We
	reached at theoretical saturation while selecting
	53 FGD participants.
	We have revised the section on page 6
- HPE experts reviewed the guide- how many and	Two HPE experts were selected for their
how were they chosen?	expertise and reviewed the guide. They were
	members of the National Medical Education
	Committee.
	We corrected the text. Please see the change on
	р <mark>аде б</mark>
-Clarify whether the 6 participants in each FGD	We used face-to-face FGD sessions to increase
group were from the same medical school or were	the participation levels of the selected clinicians
they mixed.	and students. The data collectors traveled to
	each school. Therefore, the participants in each
	FGD were from the same school. We clarified
	this point in the text on page 6
- Were there any exclusion criteria for the	Clinician-teachers with less than 2 years of
participants?	work experience, and those who are not full-
	time and had no interest were excluded.
	Medical students who did not complete their
	internship and had no interest were also
	excluded.
	Based on this comment, we included exclusion
	criteria in the text on page 6
-Clarify how the transcripts were translated and	We applied interpretive translation to translate
whether there is any chance that some of the	the transcripts. Maximum care was taken to
experiences or feelings/views of the participants	ensure the meaning of words, sentences,
will be lost when translation took place?	meanings, and cultural contexts were preserved.
	Based on this comment, we included a
	description of how the translation was
	conducted o <mark>n page 7</mark>

- Within the data collection section of methods,	Two trained data collectors (external to the
please clarify how the FGD groups were run. Was	schools) were used in each FGD as a moderator
there a facilitator and were there any other people	and a note-taker. We applied all key steps of
there to help? What was the facilitator's	FDG to collect quality and rich data. The FGDs
relationship with the participants? Was it done in	were in-person sessions. Given we used
person? Could there have been any limitations in	external data collectors, we provided clear
what the student/educator expressed within the	instructions and group norms at the beginning.
session due to concerns that it would impact their	Any concerns of FGD participants were
training for example?	addressed.
	Please see the changes made on the text to
	clarify these issues on page $6 - 7$ .
- Please clarify how the datasets were stored in a	We stored the datasets in a computer repository
secure place- locked/password protected for eg.	system which is password protected,
	Accordingly, we made a change in the text on
	page 8
Results section	
29% female students and 12% female teachers. Is	The gender distribution in medical education in
this representative and if not then what was the	Ethiopia is skewed with female under-
cause of this bias- discussion point.	representation. Though the proportion of female
	students in medical schools (about 30%) is
	improving currently, it is still low as compared
	to males. The gender findings of our study are
	consistent with other research studies. We
	believe that gender distribution did not incur
	any bias. Therefore, we did not consider gender
	in the discussion section.
-Many of the themes were explored superficially.	Thank you for the valid comments, we got back
There are several themes which overlap, for	to the data to include clearer descriptions and
example theme 1 and theme 3 overlap and I	quotes, increase depth, and consider other
wonder whether the authors would consider	perspectives.
amalgamating some themes to create themes	We confess that the issues raised are very much
amalgamating some themes to create themes discussed in greater depth.	We confess that the issues raised are very much related and we had difficulty in reporting on
	related and we had difficulty in reporting on
	related and we had difficulty in reporting on different themes.
	related and we had difficulty in reporting on different themes. Based on the comment, we have revised the

	this section. We amalgamated some of the
	issues in few themes. Please see the changes in
	the result section on pages 9 - 14
- Some of the themes had quotes from the students	We have added quotes to balance the views of
only or teachers only but it may be useful to have	students and clinician-teachers.
more balanced quotes from both parties within	please check across the result section
each theme	
Within theme 5 the second quote 'students	It is more related to the teaching skills and
should have been told what they should achieve'	performance of clinician-teachers. We put this
is this related to the clinical supervision that	quote under theme 2 (availability of skilled and
students get or the overall structure of the teaching	motivated clinician-teacher). We also revised
within their medical school and the curriculum or	this quote to give more clarity to the readers.
learning objectives being made transparent to	please see p <mark>age 10</mark>
them? It would be good to get clarification on this	
as it falls within supervision section but it unclear	
other influencers	
Theme 6 – any expansion on what the 'unrelated	We revised the theme and added some
orders' might be? - The quotes seem to be quite	descriptions to give more clarity on the quote.
brief and superficial. If there are any quotes that	please see the change on page 11
give more depth and detail to the theme then please	
consider including.	
Discussion section	
Similar point of the transferability as detailed	Yes, we considered this point in strengths and
above. Transferability to other medical	limitations section on page 3
schools/sites would need to be done with caution.	
Discussion point	
-Does the medical school age affect the student	The medical schools implement a national
experiences? As it was mentioned before that there	harmonized competence-based curriculum.
have been many new schools set up. Are they all	Older schools and new schools had their own
similar in structure and is there a difference	strengths and challenges. Generally, the HPE
between rural and urban schools?	upscaling affected both types of schools. For
	example, old schools had more senior staff.
	However, more residence programs and
	students, affecting the practical training. New
	schools had new infrastructure and young and
	less experienced staff and management. And
	less experienced start and management. And

[	place note that medical schools and teaching
	please note that medical schools and teaching
	hospitals in Ethiopia are located in urban
	settings.
-Would need to clarify why authors think that	The clinical practice of medical students in
these findings can be expanded to primary care	Ethiopia is conducted mainly at tertiary referral
setting	and teaching hospitals. While new graduates are
	mostly deployed to primary hospitals and health
	centers, we believe thatthis would create a
	misalignment of placement training of students
	and their future medical practice. In addition,
	students were challenged to see and practice
	common health problems and infections that are
	managed in primary healthcare settings.
	Therefore, we considered expanding clinical
	placement to primary healthcare settings are
	critical.
	we added a text to clarify our reasons of
	expanding the placement sites to the primary
	care settings on page 14 &15
-Another study the identify the experiences of	We strengthened the results sections, showing
students/educators in the primary care setting	what the actual practice looks like and the gaps
would be useful rather than extrapolation from this	of too much practice in tertiary hospitals. We
dataset	also strengthened the effects of practicing away
	from primary care settings for undergraduate
	students in the discussion section. We believe
	that our findings can help us to recommend the
	use of primary healthcare settings for student
	placement.
	Please see text on pages 14 and 15
- Interesting point would be the economic impact	We have added a text describing the need for
of the scale up and the implications of these	research focusing on the economic implications
findings for future directions.	of the HPE scale-up.
	Please see the change on page 17

## **VERSION 2 - REVIEW**

Reviewer	2
Name	Ng, Ka Ying Bonnie
Affiliation University of Southampton Faculty of Medicine, School of Human Development and Health	
Date	24-Mar-2025
COI	

This revision is much clearer and easier to read. The methodological details and structure of the results is much improved from the initial draft.

- Please ensure consistency of FGD (as in some places, the authors have stated 'FDG').

- There are minor spelling and grammatical errors that need addressing, e.g. spelling of teachers on page 18.