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development, productivity and personal well-being for both the mentor and mentee [13]. However, whilst mentoring has enjoyed s]gn]f cant successes in medicine, surgery, nursing and social work, there is a dearth of data on mentoring in the context of IPE and Palliative Care.]s is in part as mentoring as a whole remains poorly defined and largely context-dependent [13-25].

Is review seeks to circumnavigate the lack of a clear def nltJon of mentoring and the absence of a universally-accepted description of mentoring practice in medicine, surgery, nursing and social work by focusing on systematic reviews, literature reviews and meta-analyses of mentoring involving undergraduates and postgraduates in clinical and academic mentoring settings.

Is approach circumvents the context-dependent and goalsensitive nature of mentoring and allows for the Ident]f catJon of common core concepts and approaches within these specialties that will make lessons learnt translatable to mentoring in Palliative Care and form the basis for an IPE-based mentoring program. To further focus these e orts this review will be limited to mentoring relationships between mentors and mentees and focus upon discerning the characteristics, benefits and the drawbacks of mentoring within undergraduate and postgraduate medicine, surgery, nursing and social work. We have included surgical practice to provide a holistic perspective of mentoring within medical practice as a whole.

We believe that the overview of practice trends and causal ties between mentoring approaches and their]nf uence upon mentoring will be transferable to Palliative Care practice given the similarities of their practices. We believe that study of mentoring in nursing, medicine, social work and surgery is warranted given the central roles these specialties play in Palliative Care practice especially within the Asian setting where we aim to apply the results of this analysis to guide e orts to introduce and expand mentoring programs in Palliative Care. Single study analyses on mentoring in these specialties were deemed to be of limited use given the inherent d] erences in the dinical, contextual, practice and health care systems [26]. Leech et al. and Onwegbuzie et al. [27,28] argue that use of multiple sources serves two key functions. Firstly, the authors argue that combination of data from many studies provide a better understanding of a phenomena or 'representation' [27-30]. Secondly, the use of data from multiple sources allows corroboration and convergence of aspects being studied improving 'between source legitimation' [27,28].

e absence of an a priori framework for mentoring [31] and a lack of understanding in the processes and the relationships behind the mentoring process within Palliative Care underpinned the adoption of a constructivist approach [32,33]. e Grounded eory was employed to thematically analyze the review articles [28,34]. e process included open coding of the reviews where data was coded for and axial coding wherein similar codes were grouped together to create a theme. e individual reviewers independently determined the themes within their individual analyses and the themes were discussed in a reviewer's meeting Reviewers agreed upon the themes and the ver]f ed themes formed sections and subsections within the review [35].

emat]c saturation was determined by the 7th review.

]s review focuses on evaluating aspects of the traditional hierarchical mentoring between a senior experienced dinician and a

junior dinician and/or student [20], a dyadic approach (one-to-one, senior-to-junior, face-to-face) [36] and group mentoring approaches. Excluded were peer, near-peer, leadership, family, patient, e-mentoring and youth mentoring. We also limited our attention to literature reviews, systematic reviews and meta-analyses of mentoring involving undergraduates and postgraduates in clinical, research and academic settings.

Focus was limited to mentoring in medicine, nursing and social work given that these are the most common participants of the Palliative Care multidisciplinary team in most developing nations and certainly in multicultural societies in Asia where pastoral services o en play ad hoc roles in multidisciplinary teams given diverse religious beliefs and cultural sensitivity. Inclusion of surgical specialties within this review was aimed at making this process more inclusive and served to acknowledge the s]gn]f cant contribution that surgical mentoring has made to our understanding of mentoring as a whole

Perspective, opinion and refect/ve pieces, commentaries, editorials and recommendations were excluded due to the diversity of practices described. e search was restricted to reviews in English or had English translations only. We included all study designs aimed at the personal and/or professional development of the mentee. We excluded literature reviews, systematic reviews or meta-analyses that were not exclusively focused upon adult medicine, surgery, nursing or medical social work. Other health specialties not regularly associated with adult Palliative Care such as dieticians, psychologists, chiro-practitioners, midwifery, Pediatrics, Clinical and Translational Science and Dentistry were excluded. We also excluded mentoring in Obstetrics and Gynecology given it regularly encapsulates mentoring in Obstetrics and midwifery.

We also excluded literature reviews, systematic reviews or metaanalyses on supervision, coaching role modeling preceptorship, sponsorship and advisor roles, given that these practices are seen as distinct from a mentoring approach.

Our literature search involved PubMed, ERIC, Cochrane Database of Systematic Reviews and Science Direct databases with the search terms "mentor", "mentoring", "mentorship" "mentoring relationships" AND one of the following "medicine", "surgery", "nursing" and "social work" or their combinations, to identify literature reviews, systematic reviews or meta-analyses on the mentoring of undergraduates or postgraduates in the abovementioned f elds between 1st January 2000 and 31st December 2015.

Four of the authors (MTW, WJT, MFMI, LK) carried out independent searches, scrutiny of shortlisted abstracts and reviews of all full text reviews fulf ll]ng the inclusion criteria. Each author compiled a shortlist of papers (Figure 1). Following review of 10 full text articles the four authors unanimously agreed upon a common template to be used for the thematic analysis of the papers. Further face to face meeting between all 6 authors was carried out once all the authors had completed their reviews of all the full text reviews fulf ll]ng the inclusion criteria. At this meeting the themes were discussed and agreed upon by the authors. In cases of disagreement or omissions, the authors reviewed the full text review and a unanimous decision was sought.



A total of 1059 abstracts were retrieved and evaluated, 61 full-text articles were analyzed and 20 reviews were included in this review

Of the 20 reviews included in this review, 1 review included a review of mentoring in medicine and nursing 10 in medicine, 4 in surgery and 5 in nursing ere were no relevant reviews on mentorship in medical social work]dent]fed.

emat]c analysis revealed 6 themes including (1) characteristics of prevailing def n]t]ons of mentoring (2) characteristics of mentoring relationships, (3) characteristics of mentors and (4) mentees, (5) benef ts of mentoring (6) drawbacks of mentoring and f nally how they all tie into painting a preferred mentoring partnership

definitions

An analysis of the core elements within the 18

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Characteristics	Medicine	Surgery	Nursing
Personal characteristics	*Honest	*Honest	*Honest
	*Friendly and Collegial	*Friendly	*Friendly and Collegial
	*Approachable	*Approachable	*Approachable
	*Patient	Supportive	*Patient
	Supportive	Compassionate	Enthusiastic
	Altruistic	Kind, warm and non-threatening	Good sense of humor
		Willing to learn from themselves, mentees	Motivated
	Responsive	and others	Positive attitude
	Nonjudgmental		Knowledgeable
	Reliable		Concerned
	Calm		Sense of humanity
	Respectful/Courteous		
	Committed/Dedicated		
Professional	Respected	-	Objective
characteristics	Senior		Analytical
	Experienced		Supervisory
			Assessor
			Facilitator
			Academic tutor
			Role model
ndesired characteristics	Authoritative	Biased/Show favouritism	Stifling
			Critical
			Defensive

Table 1: Characteristics of mentors

ree similar categories were found in the 6 medical [14,24,40-42,52], 2 surgical [38,43] in surgery and 2 nursing [45,51]

reviews that considered the characteristics of mentees, they are collated in Table 2 $\,$

Characteristics	Medicine	Surgery	Nursing
Personal Characteristics	*Committed	*Committed	Conative characteristics:
	*Open	*Open to learning from colleagues	*motivation
	*Proactive	*Proactive responsibility	volition
	*Motivated/Ambitious	Appreciate experienced senior	Affective characteristics:
	Honest	colleagues Respect mentor's input Voluntarily offer relevant feedback	temperament emotion
	Reliable		
	Intelligent		Independence
	Passion to succeed		
	Willing to learn and reveal flaws		
	Face their own weakness and perform self-reflection and self-critique		
	Receptive to constructive feedback and make changes accordingly		
	Conduct themselves in a mature and ethical manner		

	Enjoying a challenge Learn by turning negative experiences into learning opportunities
*Indicates benefits listed in more than one discipline	

Table 3 Personal benef ts of mentoring to mentees

Benefits to mentees	Faculty		
	Medicine	Surgery	Nursing
Professional benefits	*Career choice		
	*Career promotion		
	*Professional development		
	*Professional knowledge		
	*Staff/faculty retention		
	*Rise in ethnic minority faculty		
	Career-enhancing factor		
	Career preparation		
	Faculty productivity		
	Financially-rewarding practice		
	Increased compensation		
	Develop high-quality practice		
	Institution support		
	Navigate academic h-veÄ		

apprenticeship model, which focuses upon "learning about practice" [72,73] does embrace many of the core aspects of these theories and does appear to refect Palliative Care practice that does see junior dinicians building upon their training and enhancing it with a multidimensional perspective drawn from instruction and holistic support from various members of the multiprofessional team. Furthermore the cognitive apprenticeship model does lend itself to the Palliative Care instructional approach that sees mentors model the desired behavior and practice for their mentees and "trains the next generation of experts" [74] and independent Palliativists. Similarly multiprofessional 'apprenticeship' advocated by the adapted cognitive apprenticeship model will allow for multiple mentoring relationships [75] that facilitate learning skills training and personal advice from multiple mentors from d] erent dinical backgrounds [5,74]. Simulation and community projects can be done under the purview of mentors from a variety of backgrounds, who can then provide feedback and track progress, facilitating multiprofessional and multidimensional learning [76,77]. Similarly amalgamation of structural and administrative changes such as scheduling [72] and the incorporation of an appropriate mentoring framework will allow for the e ect/ve and holistic support of Palliative Care mentees.

If Palliative Care is to continue to expand and take its place within medical practice, it is evident that IPE-based mentoring is required. As with mentoring in other dinical f elds such as geriatrics, rehabilitation medicine, pediatrics and oncology any e ort to create an IPE-based mentoring program must pay close attention to nurturing the mentoring ties within mentoring relationships. However, it is clear that prevailing data only hints at the appropriate process to be adopted and further studies are required. Is review serves then to point to the areas that require urgent attention. ese include understanding of mentoring relationships and the dynamics within mentoring processes. It is evident that further studies are required not only to evaluate

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