Multimedia Appendix 10. Medical education – overview of articles mHealth articles

Country and	Sampl	Devic	Aims	Findings	
reference	e size	e			
USA [209]	366	PDA	To identify trends in the	The students considered	
			utilization and acceptance of	handheld computing an	
			handheld computers (personal	essential technology that	
			digital assistants) among	was integral to their	
			medical students during	performance as future	
			preclinical and clinical	clinicians.	
			training.		
USA [210]	105	PDA	To assess both confort levels	PDA class is beneficial,	
			and self-described skill level	necessary, and should	
			before and after medical	remain mandatory to	
			students class.	faculty, students, and	
TICA [DDC]	227	DD 4	T 1 1 1 1	instructors.	
USA [226]	227	PDA	To describe the prevalence	PDAs may facilitate the	
			and patterns of use of PDAs	application of evidence-	
			by nurse practitioner (NP)	based knowledge to	
			students and faculty, examine	practice.	
			relationships between		
			patterns of use of PDAs and		
			demographic characteristics		
			of NP students and faculty,		
			and describe patterns of use		
			of PDAs that support		
			evidence-based practice		
T 150=01	45	DD 4	(clinical scholarship).	D.1	
Israel [253]	45	PDA	To determine residents'	Palm owners in both	
			perception of the utility of	groups responded that they	
			PDAs and their influence on	used these devices to	
			clinical practice at two	organize their record	
			teaching hospitals, one of	keeping and the most	

			which subsidized resident	frequently used programs
			purchase of a PDA.	were pharmacopoeias,
				medical reference and
				clinical calculators.
Australia	76	PDA	To investigate whether PDAs	Students using the PDAs
[270]			would enhance students'	demonstrated a moderate
			pharmacological	increase in their mean
			and clinical contextual	score, which was double
			knowledge and to identify	the increase in the control
			issues associated with the use	group. Students found the
			of PDAs in students' clinical	PDAs easy to use and
			experience.	perceived their use as
				beneficial to
				their learning in the
				clinical area.
Canada	36	PDA	To determine if the use of a	There was a significant
[271]			PDA influences the students'	increase in self-efficacy in
			preparedness for the safe	the groups with PDAs.
			administration of medications	
			and enhances the students'	
			self-efficacy.	
USA [272]	72	PDA	To evaluate the educational	
			effectiveness of a PDA-based	PDA-based geriatric
			geriatric assessment tool.	assessment tool
				demonstrated greater
				improvement in geriatric
				knowledge than peers who
TICA FORDI	400	DD 4	T l	did not use this resource
USA [273]	122	PDA	To determine if a PDA-based	A PDA-based tool did not
			smoking cessation	increase key SCC
			counselling (SCC) tool can	behaviors compared with a
			improve medical student	paper-based reminder.
			smoking cessation	Students reported
			counselling.	discomfort using the PDA
				with patients, lack of time,

			and lack of training as
			barriers to use of the tool.
USA [274]	30	iPod	To determine whether iPod capture of
			participation in educational conferences is a reasonable
			conferences utilising iPod resource to help meet the
			technology enhances both educational goals of
			medical knowledge and residents and residency
			accessibility to educational programs.
			content among medical
			residents in training