Table 1

Literature Review Summary

Authors (Year) Country	Purpose	Study Design	Sample	Platforms Used	Teaching Pedagogies in using Social Media	Findings	Level of Evidence/ Quality
Bayram et al.	To identify the	Randomized	1 st -year nursing	WhatsApp	Faculty explained safe IM injection	Statistically significant	Level I; B.
(2020)	effect of	control trial	students		in the VG area to all students via a	differences between the two	Good
	WhatsApp				PowerPoint presentation, question	19	
Turkey	supported		<i>N</i> = 100:		and answer session, discussion, and	, ,	
	training on the		Intervention		demonstration using a simulator.	and changes in knowledge (p	
	knowledge of		(n = 46),			= .012) and the average post-skill	
	nursing		Control		The intervention group received	test scores ($p = .000$) and	
	students about		(n = 54)		additional intentional videos and	changes in skill ($p = .000$).	
	safe				pictures: the control group did not		
	administration				receive them.	In the post-skills test, 89.1% of	
	of IM injection					the intervention group	
	into the				Student learning was measured	administered the injection in the	
	ventrogluteal				with the knowledge proposition	correct area, compared to 31.5%	
	site				into the VG site, skill control list of	in the control group.	
					the VG injection, and post-clinical		
					application evaluation forms.	97.6% of the intervention group	
						acknowledged WhatsApp-	
						supported training enhanced	
						nursing students' knowledge on	
						the proper administration of	
						intramuscular injection into the	
						VG site.	

BSN s health policy initiat social	ence that ively ed RN-to- cudents in icare ives using media	s c p	students in an online health oolicy course V = 49	for the course and asked students to complete learning activities and Twitter activities, including reviewing evidence on a health policy topic, reading assignments, engaging in an online debate, and writing a scholarly paper about a selected policy issue. Student engagement was measured by analyzing the extent of microblogging and student reflections on the use of Twitter.	policy-related individuals and groups on Twitter. Two themes emerged: Staying up to date and Opening my eyes. Microblogging with Twitter was effective for student engagement in health care policy.	Level V; C. Low
al. (2018) integrevider Australia YouTu into u biosci course evalue	nce-based - Mix be videos Meth ndergrad ence es and ate the of these	rovement n ked p hods s	L st and 2 nd year nursing and paramedicine students V = 2500	Student engagement was measured by the number of subscribers, the number of views, viewing time, and student comments.	Subscribers logged more than 318,626 views of the 149 videos. The average view duration was 4 min and 56s. 90% of the students agreed the videos in the course assisted their bioscience learning. Students' comments were positive regarding content quality, learning goal alignment, motivation, presentation design, interaction usability, accessibility, reusability, and standards compliance. Student confidence and subsequent access to the YouTube videos was enhanced	Level V; B. Good

Jones et al.	To assess if it is	Case Study -	1st year nursing	Twitter	Faculty provided face-to-face	70.1% of the 1st cohort and 88%	Level III; B.
(2016)	feasible to	Mixed	students		lectures, two webinars, two drop-in	of the 2 nd cohort of students	Good
	include Twitter	Methods			help sessions, and chat rooms to	thought Twitter was worthwhile.	
United	as an assessed		N = 547: 1 st		introduce skills nested throughout		
Kingdom	element of 1st		cohort ($n = 450$),		a nursing program. Students were	70.8% of the 2 nd cohort vs. 44.4%	
	year nursing		2 nd cohort (n =		encouraged to be active in Twitter	of the 1 st cohort reported	
	curriculum		97)		activities. Faculty monitored the	learning more.	
					Twitter accounts and Digital		
					Professionalism accounting for 10%	81.6% of the 2 nd cohort vs. 43.3%	
					of students' grades.	of the 1 st cohort reported continued use of Twitter.	
					An online survey by followers or a		
					short essay by students were used	Cohort and age were highly	
					to evaluate course effectiveness.	significant predictors of learning	
						(p < .001).	
Morales	To find ways to	Quality	1 st year	Facebook	Faculty posted daily NCLEX	Students reported that the class	Level V; C.
(2017)	•	•	associate of	I acebook	questions, monitored student	Facebook platform was helpful	Low
'	engage students and	– Mixed	science nursing		engagement, and provided	for discussing NCLEX questions	LOW
United States		Methods	students in a		feedback.	and for getting to know remote	
Officed States	learning	ivietiious	pharmacology		leedback.	campus students. Benchmark	
	through active		course		Student learning experience was	testing scores improved. Student	
	learning		course		evaluated through student	engagement in the class	
	strategies that		N = 140		engagement, benchmark testing	Facebook correlated with higher	
	included		/V - 140		scores, a classroom critical incident		
					1	giaues.	
	gaming and social media				survey, listing three words to		
					describe the class, and feedback		
	use				comments.		

Pimmer et al. (2018)	To investigate the use of	Cross- sectional,	Senior nursing students	WhatsApp	Faculty encouraged students to use the instant messaging platform	of WhatsApp, perceived ease of	Level III; B. Good
Nigeria	WhatsApp and its correlation with a number	descriptive	N = 196		(WhatsApp) during clinical placement.	use, and usefulness in the clinical setting.	
	of socio- professional indicators				Student learning experience was evaluated through questionnaires that measured intensity of use, general use, relationship with peers, degree of isolation, identity development, placement satisfaction, and determinants of WhatsApp use.	Nursing students' WhatsApp use during placement was positively associated with their professional identity ($r = .21$, $p < .01$) and their placement satisfaction ($r = .17$, $p < .05$), and negatively associated with the students' feelings of professional isolation ($r =18$, $p < .05$).	
						WhatsApp use during the placement was positively associated with perceived usefulness of WhatsApp ($r = .23$, $p < .01$) and perceived ease of use ($r = .18$, $p < .05$).	
Price et al.		Cross-	1 st year nursing	Twitter		Students reported positively to	Level III; B.
(2018)	year nursing students' use of	sectional, descriptive	students in Adult, Child, and		module where Twitter was an optional component to discuss	social media to engage and promote discussion and share	Good
England	social media, before and after commencing a pre-registration program using Twitter	·	Mental Health nursing courses N = 121		'what is nursing?' Faculty provided students the opportunity to attend tweets training sessions and asked them to engage in discussion using Twitter. Online self-report questionnaires assessed student use of Twitter and social media in nursing	information about nursing; 81% perceived Twitter as beneficial to increase awareness of nursing issues within the course; 57.8% understood the purpose of Twitter, but a small number of participants felt overwhelmed and unsure of the purpose.	
					students' education.	Although 14% of the students did not use Twitter within the module, 65.5% recommended	

						that the school of nursing should develop use of social media.	
Theron (2017) Canada	To report the development and students' perceived learning after use of Facebook as a platform of a Digital Health Assignment	Quality Improvement- Mixed methods	2 nd -year BSN students in a childbearing family course N = 47	Facebook	Faculty created a closed course Facebook group linked to the course page and asked students to complete a digital health assignment, which appraised the trustworthiness of social media health information. Digital Health Assignment Student Evaluation Survey was conducted to measure student learning experience.	Facebook was praised for social interaction in student comments. However, 32% were greatly dissatisfied with using Facebook as a learning platform. Students also commented about the difficulties of posting documents on Facebook. Faculty found challenges in locating and marking the assignments on Facebook.	Level V; B. Good
Tubaishat (2018) Jordan	To assess students' perceptions of using Facebook to support their study as an interactive learning platform in nursing education	_	1 st and 3 rd year nursing students in Adult Health Nursing and Advanced Health Nursing courses N = 151	Facebook	Faculty created a Facebook course page. Students completed a questionnaire about their perceptions of using Facebook as an educational platform at the beginning and the end of the semester.		Level III; A. High

Vicdan	To evaluate the	Randomized	1 st year nursing	Instagram	Faculty created a teaching web	No statistically significant	Level 1; B.
(2020)	effect of	control trial	students		page with 64 teaching materials,	differences were found between	Good
	mobile-assisted				including PowerPoint	skill level mean scores and	
Turkey	education		N = 138:		presentations, images, handwritten	knowledge mean scores of both	
	regarding IM		Instagram app		notes, questionnaires, videos, and	groups. The knowledge and skills	
	injection on the		(n = 69);		live webcasts, and posted them to	increased in both groups.	
	ventrogluteal		Classroom		the Instagram app. Students were		
	site by using		(n = 69)		asked to follow the page.	The Instagram app was found to	
	the Instagram					be just as effective as classroom	
	application and				Student learning was measured	teaching when evaluating the	
	to nursing				with a knowledge evaluation form	knowledge and skills of nursing	
	students				regarding VG IM injections and a	students.	
					skills application checklist.		
					Students' likes and comments		
					about live webcasts on the		
					Instagram app were used to		
					evaluate the teaching methods.		

Note: BSN = Bachelor of Science in Nursing; IM = Intramuscular; NCLEX = National Council Licensure Examination; RN = Registered Nurse; VG = Ventrogluteal