

1 <sup>st</sup> author, year, and country of origin	Methods	Participants	Modality of use of ICT	Main results
<p><b>Harerimana, 2016</b> <b>Rwanda</b></p>	<p>Parallel mixed method of convergence</p>	<p>Nursing students (n=227), Nurse educators (n=44), ICT managers and Campus managers (n=17).</p>	<p>E-learning</p>	<ul style="list-style-type: none"> <li>- Students understand what they are learning more easily and feel more empowered in their learning.</li> <li>- ICT improves the classroom climate; students are more focused on their learning, they try harder to learn.</li> <li>- ICT greatly facilitates collaborative work among students</li> <li>- Students are more likely to remember what they have learned a lot.</li> <li>- Students have a positive perception of the results of e-learning.</li> <li>- E-learning promotes self-directed learning.</li> <li>- E-learning saves time in terms of travel and attending regular classes.</li> <li>- Students can receive messages from their peers and teachers without necessarily being in school.</li> <li>- Students can access resources without being limited by time and space.</li> </ul>
<p><b>Irinoye, 2016</b> <b>Nigeria</b></p>	<p>Descriptive study of survey type</p>	<p>Nursing students (n=305)</p>	<p>Online distance learning</p>	<ul style="list-style-type: none"> <li>- Students reported having fair or poor skills in using ICT.</li> <li>- The majority of students sometimes surf the Internet.</li> <li>- Most reported not owning a personal desktop or laptop computer. More than half had no formal computer training.</li> <li>- The majority of respondents agreed/strongly agreed that face-to-face classes improve student understanding than the online virtual classroom.</li> </ul>
<p><b>Bello, 2017</b> <b>Egypt</b></p>	<p>Descriptive cross-sectional study</p>	<p>Nursing students (n=504)</p>	<p>Blended e-learning</p>	<ul style="list-style-type: none"> <li>- The majority of students respectively a desktop or laptop computer and the Internet.</li> <li>- Few students had access to medical journals or online learning resources.</li> <li>- Just over half of students accessed the Internet 1-3 times per day.</li> <li>- About half of students spend an average of 1 to 3 hours on the Internet per day.</li> <li>- Slightly less than half of the students reported that they only used the computer/Internet once a week to search for scientific knowledge.</li> <li>- About half of the students reported having</li> </ul>

				good computer skills.
<b>Chao, 2017</b> <b>Taiwan</b>	Quasi-experimental study	Nursing students (n=100)	Blended e-learning	<ul style="list-style-type: none"> <li>- The control group showed significant growth in four aspects of competence</li> <li>- The experimental group showed greater growth in two areas than the control group.</li> </ul>
<b>Willemse, 2017</b> <b>South Africa</b>	Contextual qualitative method	Undergraduate nursing students (n=101)	Blended e-learning with smartphone	<ul style="list-style-type: none"> <li>- Student engagement has improved with mobile learning.</li> <li>- Students perceive the mobile learning experience as a modern, informative, and easily accessible method of communication that provided a "clear understanding of how to take an exam."</li> <li>- Mobile learning facilitates group work, and that group work facilitates and enhances their learning.</li> <li>- The online mobile learning initiative improved communication among group members, and students completed their tasks without face-to-face contact.</li> </ul>
<b>Avelino, 2018</b> <b>Brazil</b>	Mixed method	Nursing students (n=51)	Blended e-learning	<ul style="list-style-type: none"> <li>- Participants rated their knowledge level as high after completing the course.</li> <li>- The majority of students would like to use online learning as a teaching and learning strategy in other courses and subjects.</li> <li>- Even at a distance, the forum resource allowed interaction between the students, allowing for collective construction of knowledge on the nursing process and the CPCI.</li> <li>- The distance modality is still a new experience for undergraduate students, which causes some apprehension at first contact.</li> </ul>
<b>Luo, 2018</b> <b>China</b>	Integrated explanatory sequential mixed method	Nursing students (n=9)	Asynchronous e-learning	<ul style="list-style-type: none"> <li>- The assignments were helpful for student learning, and their research skills met the expected learning outcomes of the course.</li> <li>- After completing the assignments, participants felt more confident in using different forms of technology.</li> </ul>
<b>Ali, 2020</b> <b>Egypt</b>	Quasi-experimental study	Nursing students (n=224)	Synchronized and asynchronous distance learning	<ul style="list-style-type: none"> <li>- Students rated themselves as incompetent or having poor skills in using the Internet.</li> <li>- More than half of the students found that the online learning interaction made them feel motivated,</li> <li>- More than two-thirds found that group participation in task completion is better than individualized tasks.</li> <li>- The effectiveness of the respective teacher-student relationship and rapport</li> </ul>

				<p>was reported by over three-quarters of the students. While more than half of the students reported that the system is contemporary, their responses regarding whether the online system can replace traditional face-to-face learning were distributed in approximately equal percentages on both sides of the scale.</p>
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