

Digital Competence Framework

Digital competence is defined as a combination of knowledge, skills, attitudes, and values in confident, critical, ethical and responsible use of digital health in cancer care to communicate, provide high-quality patient care and caregiver support, manage information, collaborate, create, share and implement evidence-based care in an effective, appropriate and secure manner in all phases of the cancer care continuum.

1. Communication, collaboration and participation

2. Information technology and digital health systems

3. Person-centred digital cancer care

4. Digital interventions in cancer care

5. Safety and ethics related to digital interventions and data management

Competence domains

Digital health and care refers to tools and services that use information and communication technologies (ICTs) to improve prevention, diagnosis, treatment, monitoring and management of health-related issues and to monitor and manage lifestyle-habits that impact health (EU Commission, Public Health).

Digital intervention refers to application, software and adoption of digital technologies on cancer care delivery from diagnostics to treatment and follow up.

People affected by cancer also includes family members, significant others and caregivers.

Competence domain	Knowledge	Skills	Attitudes and Values
Communication, collaboration and participation	<p>knows the nature, purpose, function and types of digital communication, collaboration and participation strategies, forms, and channels for health care professionals (HCP) and how they are used in HCP and patient communication.</p>	<p>uses digital technologies to communicate respectfully and professionally.</p> <p>adapts communication strategies to a specific audience or a specific target group / context.</p> <p>uses digital tools and technologies for professional and interprofessional collaborative processes, and for the co-constructing and co-creating resources and knowledge.</p> <p>participates actively in and across digital networks locally, nationally and internationally.</p> <p>provides sufficient and relevant information, and addresses concerns within digital health according to the needs of all people affected by cancer.</p> <p>tailors information according to patients' and caregivers' situations and needs.</p> <p>uses a range of digital technologies and tools to empower, teach, coach, mentor, and support patients, caregivers and other health care professionals.</p>	<p>demonstrates positive, sensitive, and professional attitudes and behaviours in communicating, collaborating, and participating in digital health.</p> <p>possesses awareness of digital divide in the community and society on digital environments and tools.</p> <p>demonstrates willingness to participate in society through the use of public and private digital health.</p>

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Competence domain	Knowledge	Skills	Attitudes and Values
Information technology and digital health systems	<p>knows relevant evidence-based online information sources in oncology and in their own speciality (for example, radiation oncology).</p> <p>knows how to articulate information needs and devise a plan for searching for information and content from digital environments</p> <p>understands how copyright and licenses apply to the use of data, information, and digital content and know of required legislation.</p> <p>knows common benefits and barriers to the use of digital health and interventions.</p> <p>is aware of the environmental impact of digital technologies and their use.</p>	<p>interprets and critically evaluates health data, information, and digital content.</p> <p>evaluates the trustworthiness, credibility, and applicability of digital health information.</p> <p>operates in various digital platforms and environments.</p>	<p>intends and is motivated to use and promote to use health information technology and digital interventions in provision of cancer care services.</p> <p>demonstrates willingness to learn and explore opportunities of and for digital health interventions for people affected by cancer.</p>

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Competence domain	Knowledge	Skills	Attitudes and Values
Person-centred digital cancer care	<p>understands the basics of digital information and services used to inform health and care related decisions and actions for and with the patient and caregivers/family members.</p> <p>knows digital health technology of their own speciality used in direct patient care and caregivers' support.</p> <p>understands the principles of person-centred care in digital cancer care.</p>	<p>evaluates the patient's and caregiver's/family members' digital capabilities, resources and willingness to use digital health services.</p> <p>promotes the patient's and caregivers' / family members capabilities, resources and willingness to use digital health services, for example by empowerment them, encouraging them to improving knowledge, and addressing their concerns.</p> <p>incorporates the patient's and his/her caregivers/family members' empowerment and needs in delivering digital care.</p> <p>evaluates the patient's situation through digital means, obtains relevant patient information during digital symptom assessments, and ensures the accuracy of patient medical history and medication details.</p> <p>uses a range of technical devices and software in a professional context relevant to own speciality and multidisciplinary cancer care and choose the best interventions and tools for the situation.</p> <p>creates and edits digital content targeted at patients and caregivers/family members in different formats with the participation of patients through co-creation.</p>	<p>promotes equality and effectiveness of digital cancer care services and communication for people affected by cancer.</p> <p>values person-centred care regardless of the environment.</p> <p>demonstrates a positive attitude to advance capabilities, resources and willingness to use digital health services for people affected by cancer</p>

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Competence domain	Knowledge	Skills	Attitudes and Values
Digital interventions in cancer care	<p>knows digital interventions and tools relevant to own practice and patient care.</p> <p>updates own knowledge regularly on developments of digital interventions relevant to own practice.</p> <p>knows fundamentals of AI, its latest developments and possibilities for clinical application in own speciality (for example oncology surgery).</p>	<p>demonstrate technical skills in the efficient and correct use of digital health interventions and tools.</p> <p>critically evaluates the feasibility of digital tools in cancer care.</p> <p>identifies and resolves technical problems in the digital environment with IT and/or technical support.</p>	<p>sees digital solutions as important part of one's work.</p> <p>demonstrates a positive attitude in seeking out appropriate and innovative digital interventions to care for people affected by cancer.</p> <p>demonstrates a willingness to learn new digital interventions.</p>

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Competence domain	Knowledge	Skills	Attitudes and Values
Safety and ethics related to digital interventions and data management	<p>understand existing and potential risks and threats in a digital health environment.</p> <p>knows the safety and security measures of own organization on digital interventions, data ownership and data management.</p> <p>understands and acts upon appropriate guidelines, protocols, regulations, best practices, and safeguards when working with personal, public, professional and/or confidential digital information, data, and content to meet legal, ethical, cultural and security rules, requirements, and expectations.</p>	<p>protects the privacy and personal data of patient and caregiver/family members in digital environments.</p> <p>guides patient and caregiver/family member on ethics and data safety.</p> <p>conducts technology checks needed and create a technology back-up plan.</p> <p>recognises and acts upon situations and events that might compromise personal, professional, or organisational security in a digital work environment.</p> <p>organises, stores, and retrieves data, information, and content in and from digital environments according to required legislation.</p> <p>shares data, information, and digital content through appropriate digital technologies with the appropriate safety and ethical precautions.</p>	<p>provides collegial and organisational support for building positive experiences in digital cancer care.</p> <p>demonstrates ethical, positive and appropriate attitudes and behaviours regarding digital identity, wellbeing and safety of self and others.</p>

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