COLLEGE OF PHYSICIANS AND SURGEONS OF BRITISH COLUMBIA

Diagnostic Accreditation Program

ACCREDITATION STANDARDS

Artificial Intelligence

Diagnostic Accreditation Program
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Introduction

Artificial intelligence (AI) in medical imaging has been developed to support all aspects of the imaging chain including, but not limited to, patient management, triaging, protocol assignment, image and data interpretation, and image quality enhancement.

Interpretative AI refers to tools that support/supplement the interpretation of images, data and or results (e.g. AI identification of pathologies in chest X-ray images, AI quantitative analysis of sleep medicine scoring data, computer aided detection in mammography, etc.). AI does not replace comprehensive images/data/result evaluation by a physician.

Triage/queue management AI refers to tools that support the prioritization or organization of health-care service requests (e.g. AI organization of potentially urgent unreported examinations in a reading queue). AI does not replace validation of prioritization by a qualified individual(s).

Protocol/assignment of services AI: refers to AI tools that support the appropriate assignment of health-care services, procedures, and or examinations to patients. (e.g. AI assignment of services after AI review of patient history and requestion data). AI does replace validation of protocol/assignment of services by a qualified individual(s).

Artificial intelligence (AI) utilization

No.		Description	Risk	Reference	Change
					New
AI1.0		**ARTIFICIAL INTELLIGENCE UTILIZATION**			
AI1.1		**Artificial intelligence tools are comprehensive and supplement clinical decision-making.**			New
AI1.1.1	**M**	If interpretative AI tools are utilized, it supports or supplements interpretation and does not replace comprehensive image/data/result evaluation by a physician.	H		New
AI1.1.2	**M**	The clinical management of AI indicated abnormalities is determined by a physician.	H		New
AI1.1.3	**B**	If interpretative AI tools are utilized, the name of the AI tool is indicated in the final report.			New

Artificial intelligence (AI) user orientation

No.		Description	Risk	Reference	Change
					New
AI2.0		**ARTIFICIAL INTELLIGENCE USER ORIENTATION**			
AI2.1		**Users of artificial intelligence tools are qualified and competent.**			New
AI2.1.1	**B**	Orientation and training is provided to users of interpretative artificial intelligence tools.	H		New

Artificial intelligence (AI) management

No.		Description	Risk	Reference	Change
					New
AI3.0		**ARTIFICIAL INTELLIGENCE MANAGEMENT**			
AI3.1		**Interpretive artificial intelligence tools are safely operated, maintained and monitored in a manner that ensures performance specifications are met.**			New
AI3.1.1	**M**	There is a current inventory for all interpretive artificial intelligence tools.	M		New

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