The Healthcare AI Dictionary: Vol. 2

01 AI Champion

[A-I cham-pi-on] ***noun***

An individual in the health system serving as the driving force behind the organization's AI approach as a whole. An AI Champion isn't limited by their job title, but is someone who possesses a deep understanding of AI in healthcare as well as stakeholders throughout the system who can facilitate a successful AI decision and implementation.

02 Data Silo

[da-ta si-lo] ***noun***

Fragmentation that occurs as a result of disparate technological systems. Incompatible tech stacks, scattered data across health systems and care providers contribute to creating data silos that hinder seamless access to relevant data at the point of care. An integrated AI platform can help bridge these silos, enabling smoother data flow and improving care delivery.

03 Diagnostic Algorithm

[di-ag-nos-tic al-go-ri-thm] ***noun***

An AI algorithm designed to incorporate pattern recognition and data analysis capabilities. They are intended to direct attention to portions of an image that may reveal abnormalities during interpretation of patient images.

04 Fragmentation

[frag-men-ta-tion] ***noun***

Broken systems of care delivery, resulting from a combination of information silos, inconsistent means for communication and disjointed workflows. Healthcare fragmentation can lead to inefficiencies and gaps in patient care. AI-driven platforms can help address fragmentation by unifying workflows, enhancing communication and integrating data, leading to more coordinated and efficient care.

05 Governance

[gov-er-nance] ***noun***

The framework of policies, procedures and oversight that ensures AI technologies are developed, deployed and used responsibly. It involves managing data security, ethical standards, regulatory compliance and performance monitoring to safeguard patient safety, privacy and trust while maximizing the benefits of AI in clinical care.

06 Multi-Modality

[mul-ti mo-dal-i-ty] ***noun***

AI's ability to analyze and integrate multiple types of medical data–such as imaging, lab results, patient history and more–into a unified system. This approach enables more comprehensive insights by combining diverse data sources to improve diagnosis, treatment planning and patient outcomes.

07 PatMan

[pat-man] ***noun***

Short for "patient management," this is the safety net that ensures patients requiring follow-up for incidental or non-urgent conditions are identified, captured and followed. This includes utilizing AI that reviews the EHR and does automatic risk assessments by analyzing relevant clinical factors and facilitating follow-up.

08 Precision AI

[pre-ci-sion A-I] ***noun***

AI models trained for specific tasks and, above all, achieving diagnostic accuracy to make them valuable in clinical practice. These algorithms help achieve clinical relevance rather than the extractive accuracy found in foundation models like ChatGPT.

09 Substitutional AI

[sub-sti-tu-tion-al A-I] ***noun***

The AI systems designed to perform tasks typically handled by clinicians, such as flagging abnormalities or recommending follow-up measures. Effective implementation requires careful oversight to ensure that AI supports clinical decision-making without compromising patient safety or amplifying existing biases.

10 Supportive AI

[sup-por-tive A-I] ***noun***

AI systems that assist clinicians in making decisions, rather than replacing them. These tools operate under the direct supervision of healthcare professionals and use FDA-approved data, ensuring a high level of accuracy, transparency and regulatory oversight.

11 Triage Algorithm

[tri-age al-go-ri-thm] ***noun***

An AI algorithm that identifies and flags potentially urgent cases for prioritized review by radiologists. When the algorithm flags a potentially critical finding, it alerts the radiologist to expedite the case, helping to accelerate diagnosis and ensure timely intervention.

12 Quantification Algorithm

[quan-ti-fi-ca-tion] ***noun***

An AI algorithm designed to automate the measurement and analysis of medical data, such as coronary artery calcification, midline shift or abdominal aortic aneurysms. By automating these repetitive tasks, the algorithm ensures consistency and accuracy across clinicians and imaging modalities, reducing variability and minimizing human error in assessments.

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