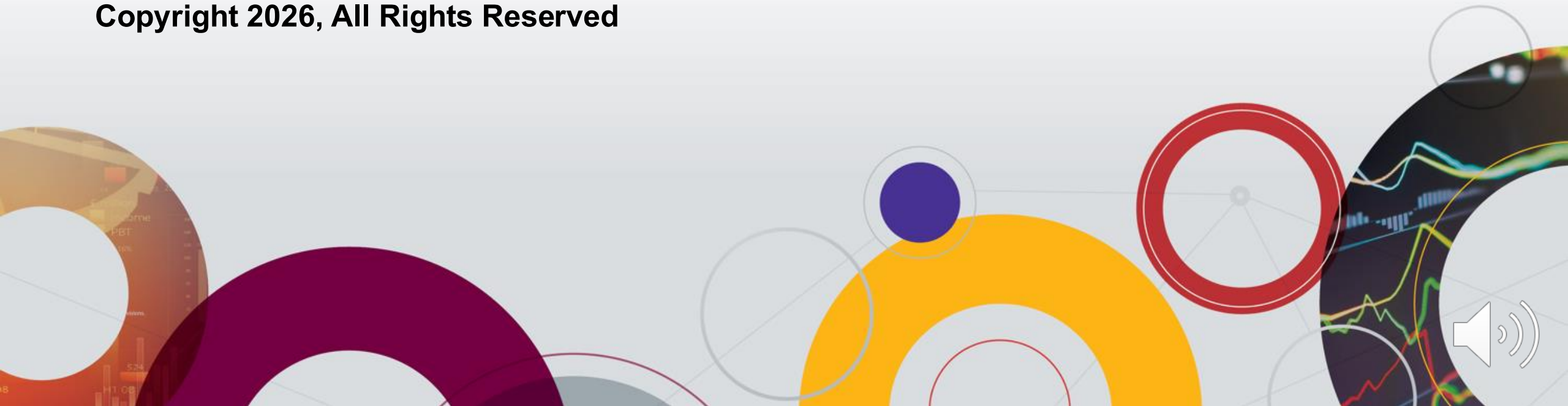


3. Electronic and Personal Health Records (EHR, PHR)

10x10 – Introduction to Biomedical Informatics & Artificial Intelligence
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Types of clinical information and their major applications

Patient-specific information is generated in the care of patients, e.g.,

- Electronic and personal health records in Units 3-4 and their advanced use in Units 5-7

Knowledge-based information is the scientific basis of healthcare, e.g.,

- Information retrieval (search) in Unit 8
- Research informatics in Unit 9

Some applications transcend both, e.g.,

- Clinical decision support in this unit, leading into artificial intelligence in Unit 5

EHR units overview

This is the first of five units devoted to the EHR and related topics

- Unit 3 – Electronic and Personal Health Records (EHR, PHR)
- Unit 4 – Standards and Interoperability
- Unit 5 – Artificial Intelligence
- Unit 6 – Advanced Use of the EHR
- Unit 7 – EHR Implementation, Security, and Evaluation

EHRs not the only topic of informatics

But a central one, especially with recent focus on adoption

Attracting attention from the various “p”s: patients, providers, purchasers, payors, public health, policy makers

EHR and PHR are profoundly impacting practice of medicine (Siegler, 2010; Sriram, 2020; Lorkowski, 2022)

Great deal of \$\$\$ went into incentive for their adoption and “meaningful use,” i.e., HITECH (Washington, 2017)

Electronic and Personal Health Records

1. Clinical Data
2. History and Perspective of the Health (Medical) Record
3. EHR Examples and Marketplace
4. Data Entry
5. Clinical Decision Support
6. The Personal Health Record (PHR)