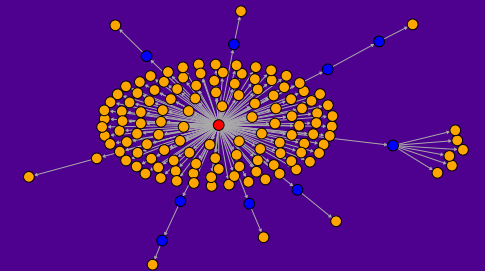


Digital twin system as a new paradigm

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Hippocraites

Health AI, Digital Twins & Chip Twins



Overview

Content:

1. Current state of medicine: **Population medicine**
2. **Digital twin**-based medicine: **Personalized medicine**
3. Summary



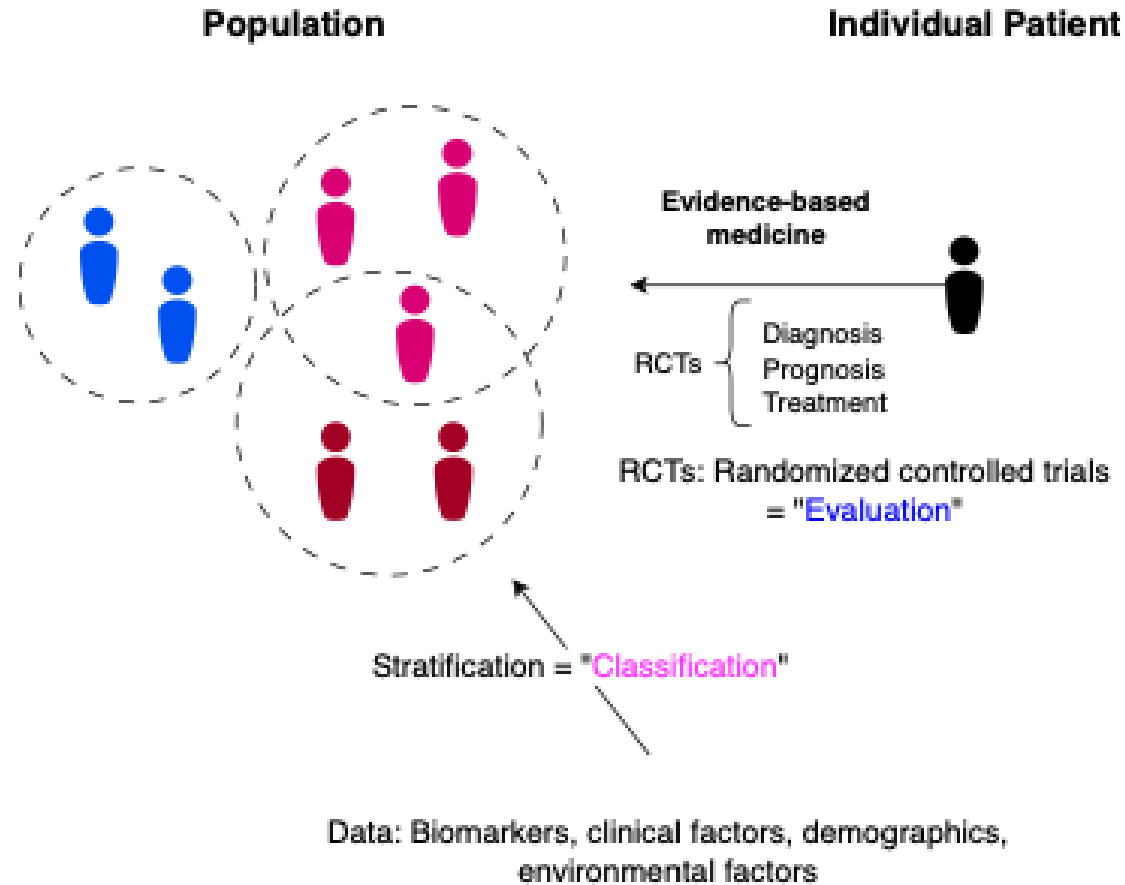
Patient vs Digital Twin

Publication:

The Role of Digital Twins in P4 Medicine: A Paradigm for Modern Healthcare

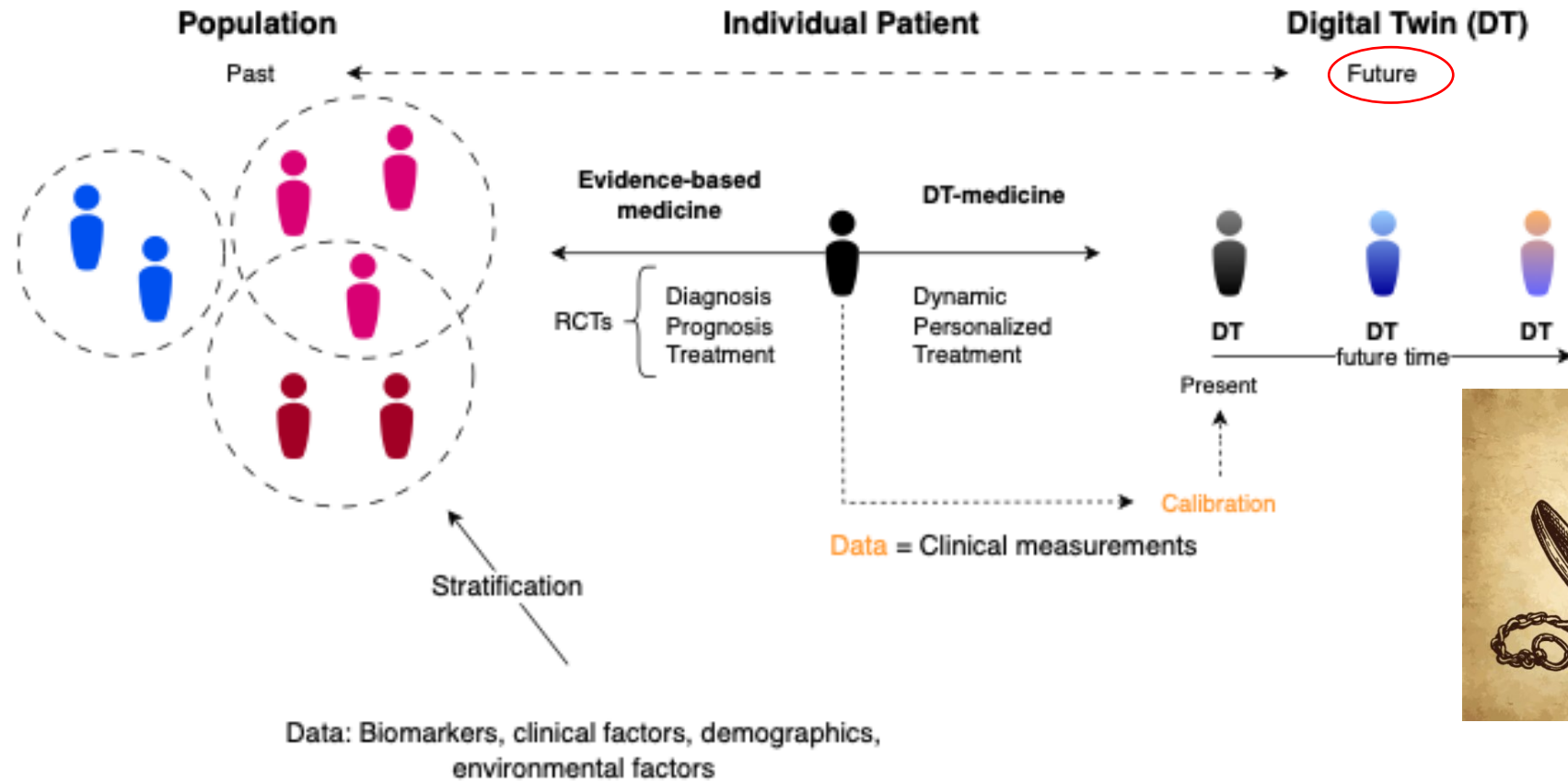
Emmert-Streib, Parkkila, Laubenbacher, Mannermaa, Hood and Yli-Harja
npj Digital Health (accepted)

Population medicine



DT-based medicine

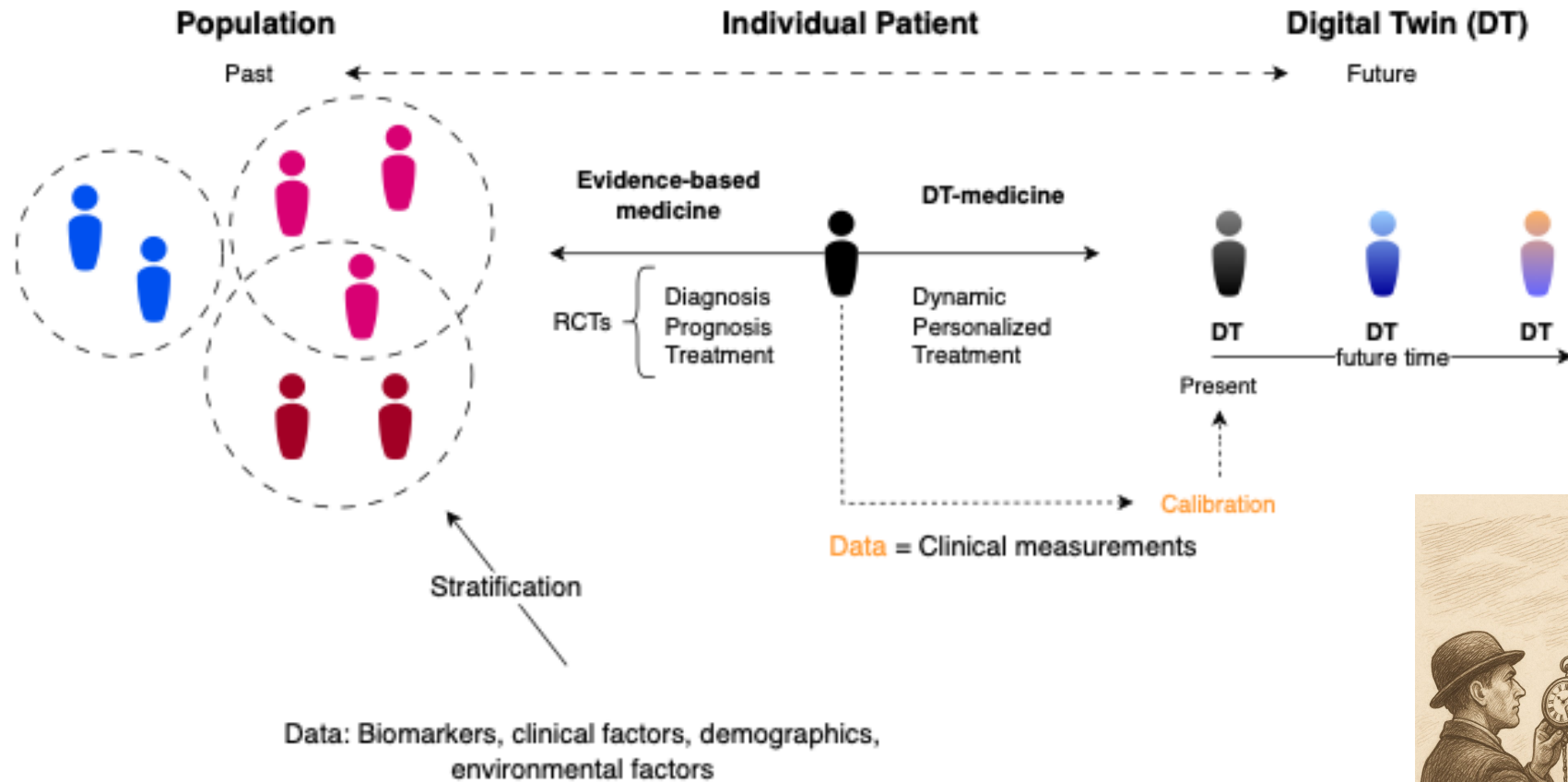
Digital twins enable a personalized medicine



Pocket watch $\neq$ Time

Pocket watch is a model

DT-based medicine



Regularly recalibrate the parameters of the digital twin model

Different problems

- Methodological problems
- Technological problems
- Medical problems



Different problems

- Methodological problems
- Technological problems
- Medical problems
- Legal problems

Permission to “look” required
Access to *data* is regulated



Thank you!

Prototype System for acute myeloid leukemia (AML) Digital Twins (2023 – 2028)

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