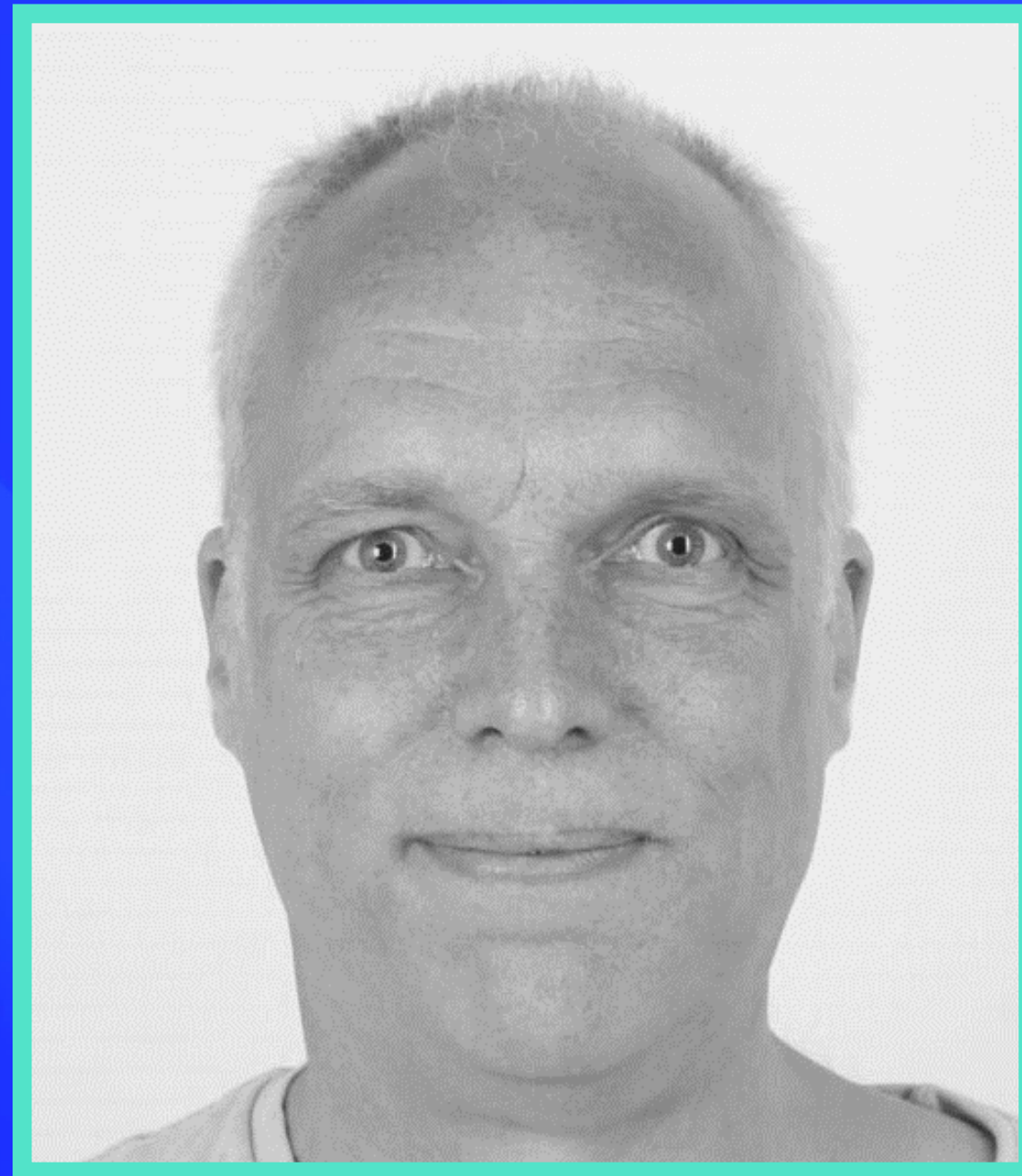# INNOVATION INSIGHT
Future Design of Modern Healthcare Systems: Evolution of Real World Data

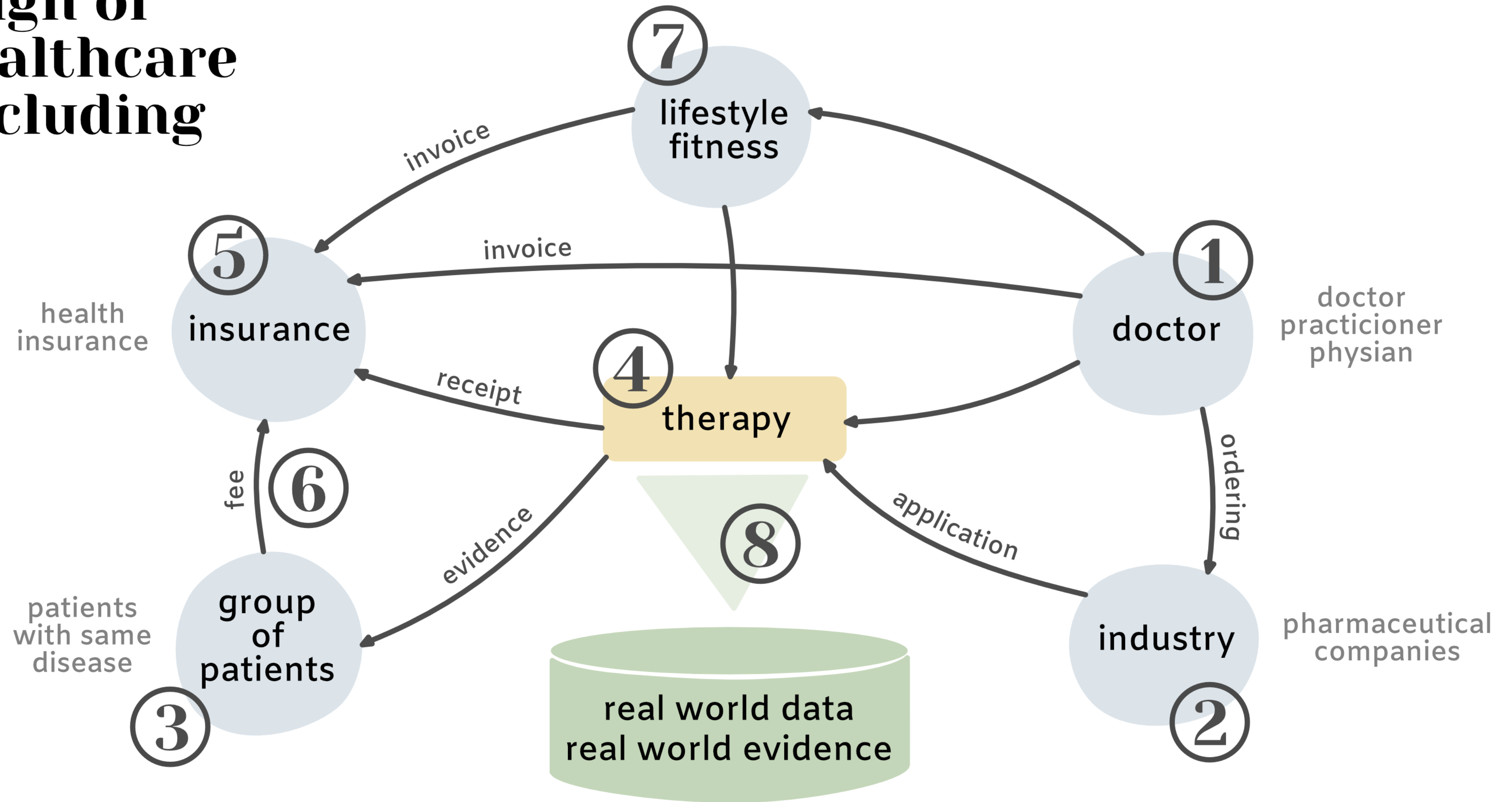

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13-14 September
INTELLIGENT HEALTH 2023
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Future design of modern Healthcare Systems including RWD

Future modern Healthcare Systems will provide Real World Data RWD and Real World Evidence from the Setup by interaction between all parties. These systems are currently not existend and there is no country where such a system has been established.
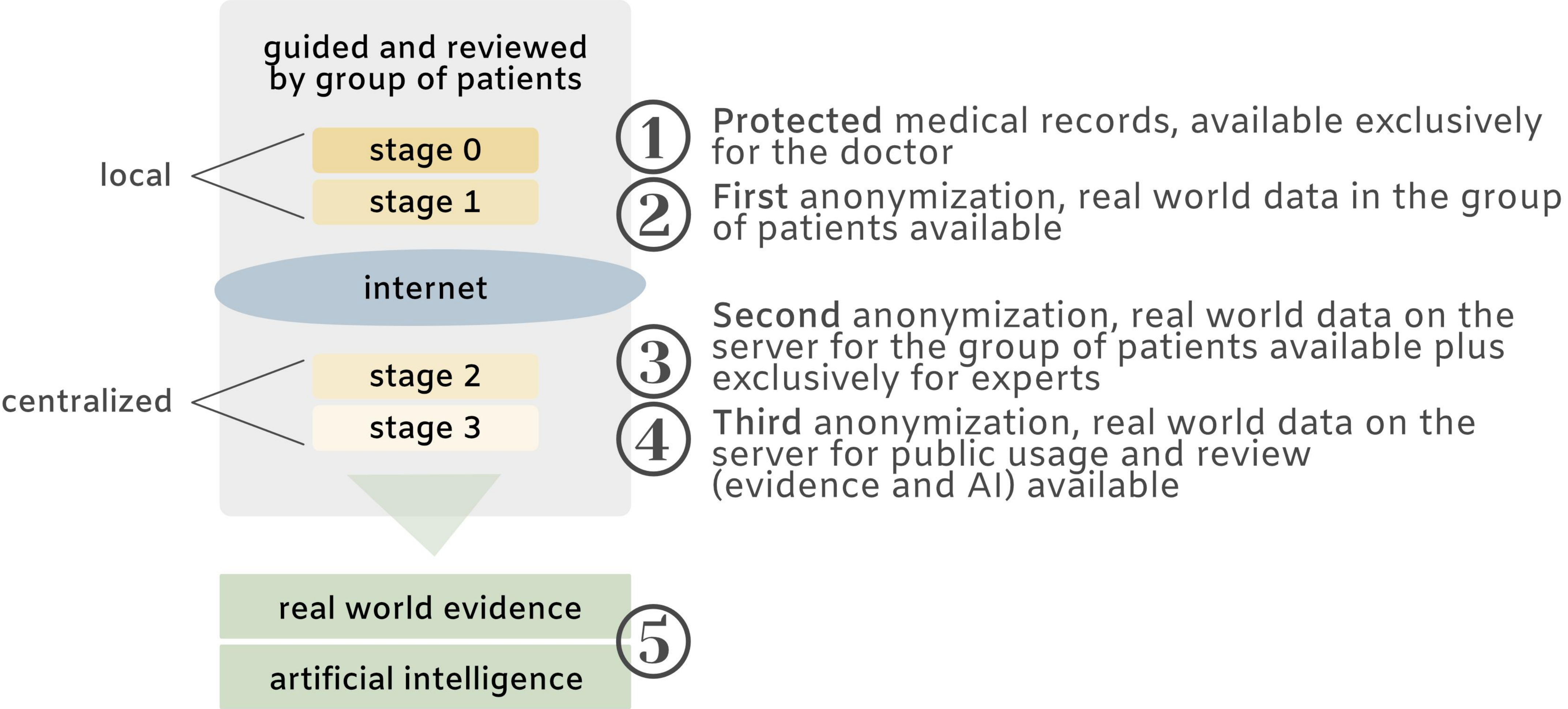
① Doctor: The Doctor/Practitioner/Physician provides the Therapy.

② Pharmaceutical Companies: The Industry is delivering the Drug like acetylsalicylic acid (ASA).

③ Group of Patients: A group of patients with the same disease is treated applying a similar Therapy. The Group of Patients is paying a monthly fee towards the Health Insurance Company.

④ Therapy: The Therapy is providing Real World Data and Real World Evidence (8).

⑤ Health Insurance: The Health Insurance company is receiving the invoice from the Doctor/Practitioner/Physician and a Receipt (4) about the Therapy.

⑥ Fee: The Group of patients is paying by a monthly fee for their therapy.

⑦ Lifestyle + Fitness: Lifestyle and Fitness Apps are adding Real World Data to the Therapy guided by the Doctor like Step Count (Pedometer), Wellness (good, bad), daily sugar intake (Added sugar), Calories Burned Calculator.

⑧ Real World Data: Real World Data and Real World Evidence is collected by an application, which connects all parties.

The different systems are not connected. Especially there is no application (8), which is generating Real World Data in such a way, that General Data Protection Regulation GDPR rules are kept, see ULD of Schleswig Holstein section Medizin-Soziales with the Nutzung von Gesundheitsdaten braucht Vertrauen.

Evolution of Real World Data by medrepo

guided and reviewed
by group of patients

local

stage 0

stage 1

internet

centralized

stage 2

stage 3

real world evidence

artificial intelligence

① Protected medical records, available exclusively for the doctor

② First anonymization, real world data in the group of patients available

③ Second anonymization, real world data on the server for the group of patients available plus exclusively for experts

④ Third anonymization, real world data on the server for public usage and review (evidence and AI) available

⑤

① Protected: The medical records of the patient are protected. Every patient is deciding by himself if he provides his data for Stage 1 (Anonymization inside a group) to Stage 3 (Anonymization for public usage).

② First Anonymization: The patient decides to publish his medical records inside the group using Anonymization.

③ Second Anonymization: The patient decides supported by his group to publish his medical records (Real World Data) centralized on a server, where experts have exclusively access.

④ Third Anonymization: The patient decides supported by his group to publish his medical records (Real World Data) centralized on a server **with public access**.

⑤ Real World Evidence, Artificial Intelligence: The collected Real World Data is providing the source for Real World Evidence and artificial intelligence in healthcare.

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