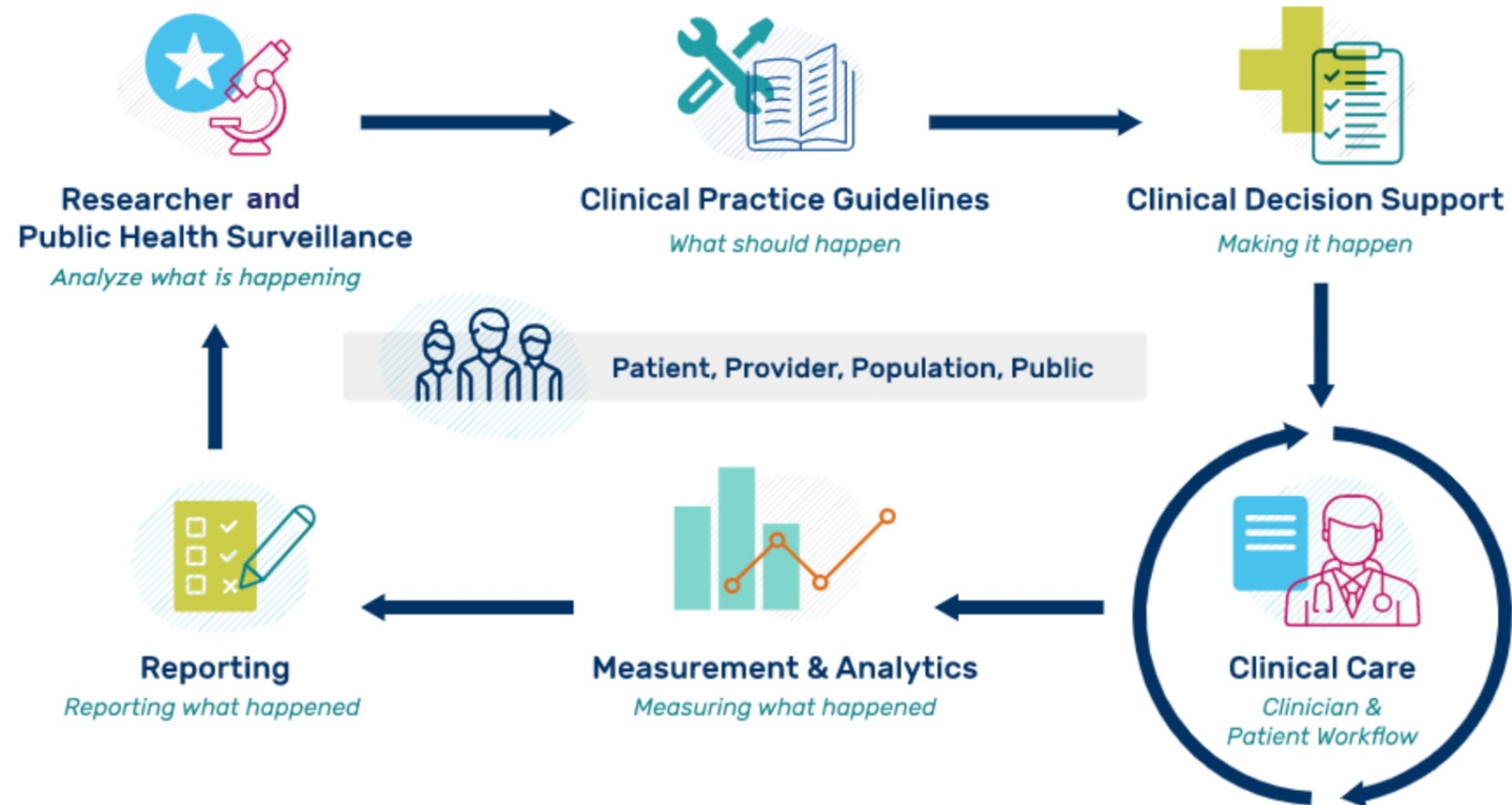# Kooperation:
FH OÖ & SmileCDR

Anna M. Lin, 15.03.2023

Clinical Reasoning

Figure 1-1: The Quality Improvement Ecosystem Diagram

https://build.fhir.org/ig/HL7/cqf-measures/

(1) Health Quality Measure: Immunisierungs-Status

- Proof-of-concept: HAPI FHIR mit CQL (Clinical Quality Language)

(1) CQL und $evaluate-measure

< Back

McKinley, Koby (ImmunizationStatus-grade-7-patient-3)

Patient Details

ID: ImmunizationStatus-grade-7-patient-3
Date of Birth: 2010-09-15 (12y)
Phone:
Gender: male

Fully Immunized (Routine)

No

Fully Immunized (Seasonal)

Yes

Past immunizations

Description	Date (Age)	Dose	Status
meningococcal ACWY vaccine, unspecified formulation	2022-09-15 (12y)	1/1	completed
hepatitis B vaccine, pediatric or pediatric/adolescent dosage	2022-09-15 (12y)	1/1	completed
influenza, high-dose seasonal, quadrivalent, .7mL dose, preservative free	2022-09-15 (12y)	1/1	completed

FH
OBERÖSTERREICH

(1) CQL und $evaluate-measure

smile DIGITAL HEALTH   Patient Search

Population Immunization Performance

16.09.2022

Fully Immunized (Routine)

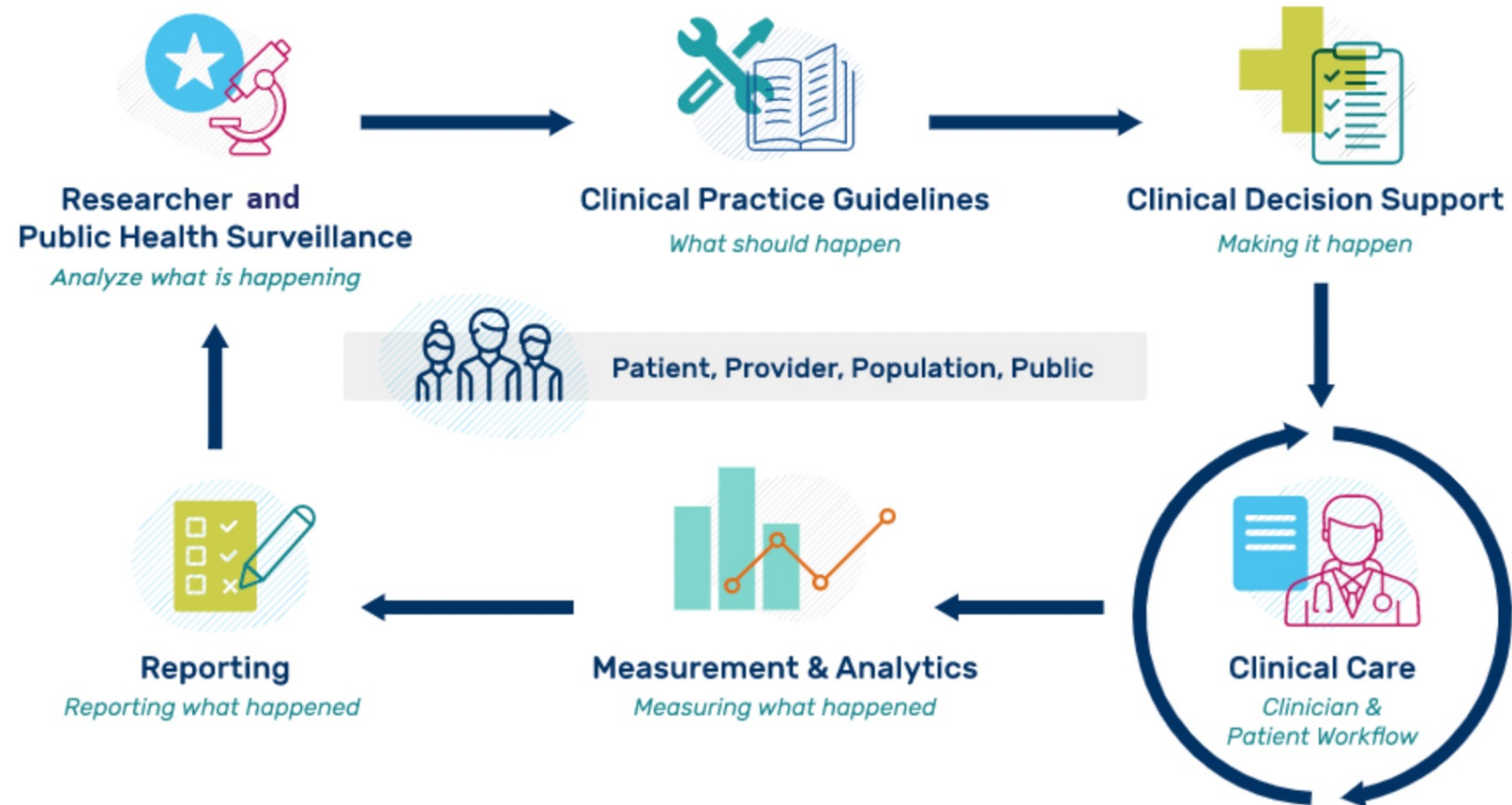|	
Overall measure score	13 % are fully immunized
Count of initial population	23 patients in initial population
Count of denominator	23 patients qualifying for immunization
Count of numerator	3 patients fully immunized

Fully Immunized (Seasonal)

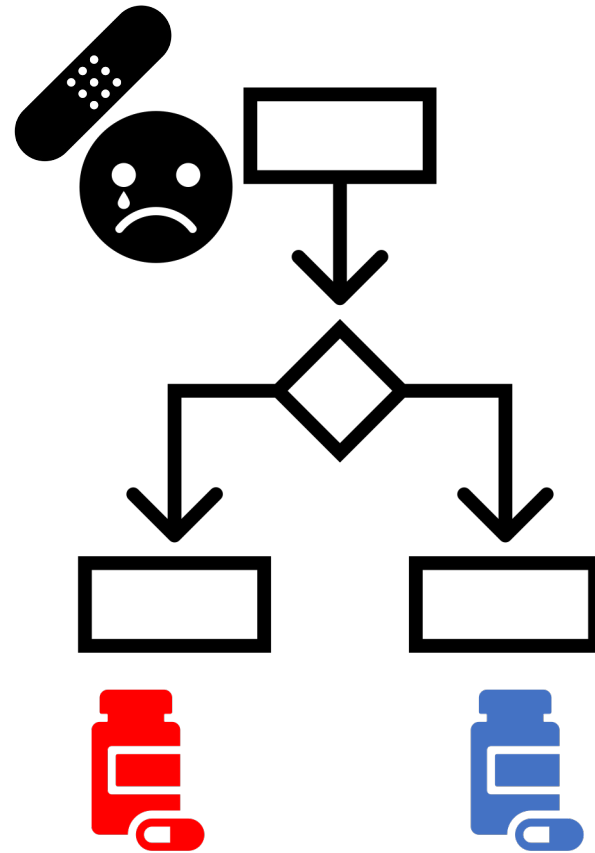|	
Overall measure score	32 % are fully immunized
Count of initial population	19 patients in initial population
Count of denominator	19 patients qualifying for immunization
Count of numerator	6 patients fully immunized

FH OBERÖSTERREICH

Erste Erfahrungen: CQL

- Logik zu FHIR → viel Potential für moderne Anwendungen (Measures, Clinical Decision Support)

- Transparente, nachvollziehbare, lesbare Definitionen

- On-Demand Datenanalyse für aktuellste Metriken

- Tooling ändert sich schnell

- Verbreitung großteils in USA → Erfahrungsaustausch noch träge

Clinical Reasoning

Figure 1-1: The Quality Improvement Ecosystem Diagram

https://build.fhir.org/ig/HL7/cqf-measures/

(2) Clinical Decision Support

(2) Opioid Prescribing Support IG

https://build.fhir.org/ig/cqframework/opioid-cds-r4/
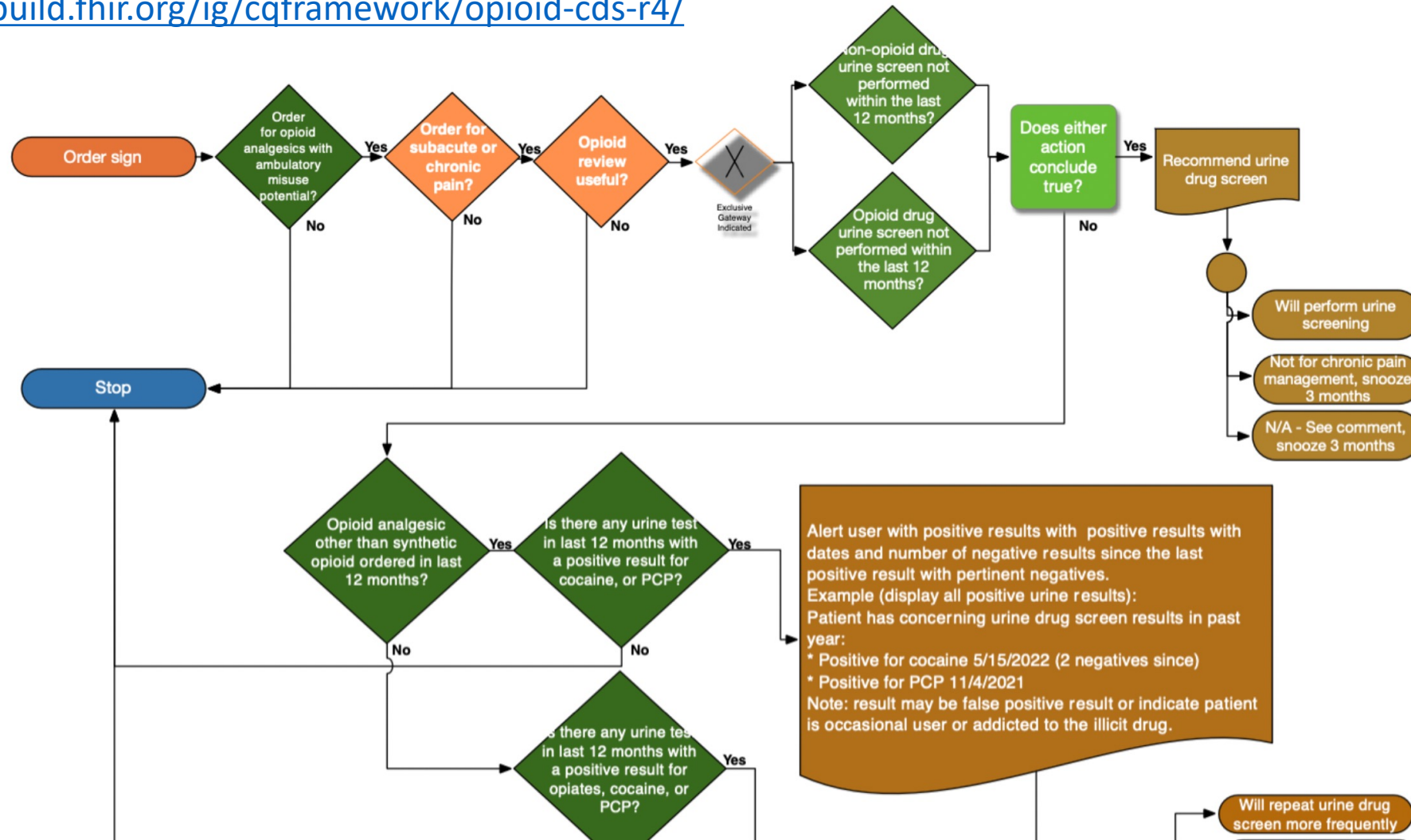
(3) Observational Research

OMOP

- Ausgelegt auf Forschung
- Anonymisiert
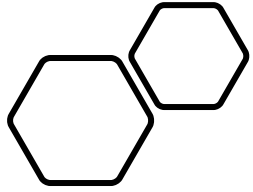- Era ist relevant (wie ändert sich Condition über Zeit)
- Beispiel: Biobanks

FHIR

- Ausgelegt auf Patienten-Versorgung
- Encounter-Basiert

Observational Research

Funding

Digital Square zur Weiterentwicklung und zum Testen des *Global Good HAPI FHIR*

Smile Digital Health als Firmenpartner und Haupt-Entwickler des HAPI FHIR Projekts