

RP 10 - Context-sensitive, personalized search at the point of care

Research question

- Search for patient independent data and knowledge
- Integrated search in multiple information sources
- *Context-sensitive search*

Heute Wiedervorstellung notfallmäßig bei massiver Durchfallsymptomatik:
- 04/2017: Noduläres Melanom Rücken links, Sentinel-Biopsie L Axilla 5/2017 negativ (0/2); initiales Tumorstadium pT4b pN0 cM0 Stadium IIC

Verlauf:

04/2017 Erstdiagnose Melanom

...

22.06.-08.07.2019 Radiation der Lunge

Seit 17.09.2019 Fortführung der Therapie mit Nivolumab Mono unter Rituximab-
Prophylaxe

Aktuelles Stadium nach AJCC 2017: pT2c pN3b M1d -> St IV

Molpatho: braf. 11;15 NEGATIV

Weitere Diagnosen

chronischer Nikotinabusus

arterielle Hypertonie

Aktuelle Anamnese: Seit Mitte September wieder Nivolumab-Therapie unter
Rituximab-Prophylaxe, Patient gibt deutliche Verschlechterung Allgemeinzustand
seit Sonntag. Von gestern auf heute starke Diarrhoe, kann Stuhlgänge gar nicht
mehr quantifizieren, fühlt sich schwach, hat Kreislaufbeschwerden.

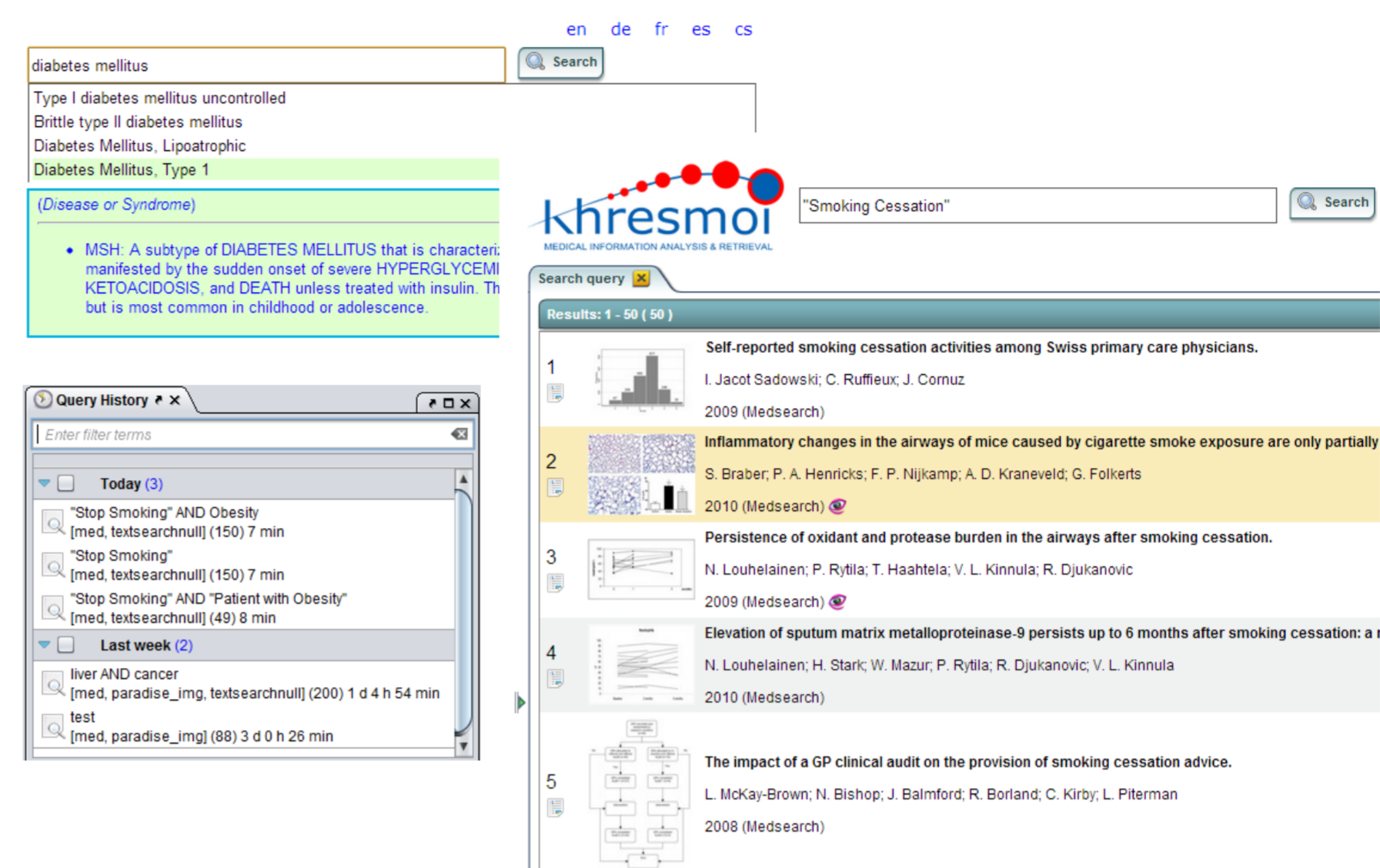
Ursache Diarrhoe Immuntherapie-bedingt? Infektiös?

Example for treatment documentation from the dermatological clinic

Solution approach

- (Partially) automatic determination of the patient's context (→ Objective Sachweh/Nensa)
- How can the user context be determined (history / explicit configuration)?
- How can the context for the search be displayed and edited?
- Which existing / newly developed methods are best suited for contextual searches? (quality, transparency)
- How can the search results be displayed flexibly and configurably?
- How can users* best be supported in their interactive search?
- Evaluation of the procedures
- Evaluation of the user interface

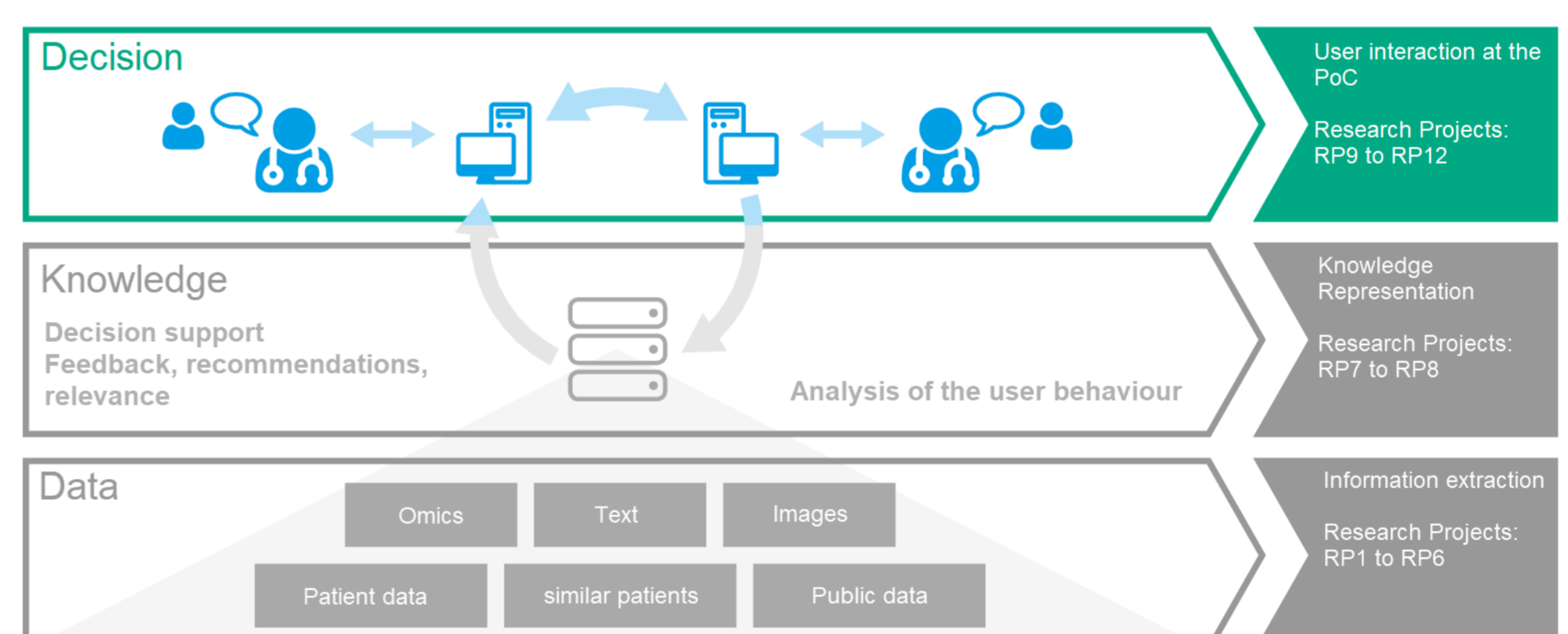
State of the art



- khresmoi: context-free search across multiple information sources
- TREC: limited context, non-interactive

Integration

- Adoption of the patient's context
- Search in the connected data and knowledge bases



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Literatur

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