

Properties of protocols

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Overview

- Types of properties
- Examples of several types
- Next step

Type of properties

Properties on the conceptual level: *This talk*

- Properties based on the protocol/guideline
- Analysis of protocol
- Independent of any language

Properties on the implementation level:

- Dependent of a particular formalism (e.g. Asbru) *Vienna's talk*

Conceptual properties types

- General properties /
protocol specific properties

in between:

particular family of protocols

examples:

- Cancer protocols
- Protocols for chronic diseases

Conceptual properties types

- Real / fictive (explicit/implicit)
real: explicitly mentioned in the protocol
fictive: artificial injected properties
- Protocol / trace
protocol: (static) properties of protocol
trace: (dynamic) properties of protocol application to a patient

in between: particular patient group

Examples of properties

- Verification of intentions
type: general, fictive (if intentions are not stated)
- Decomposition of intentions
type: general, fictive (*ditto*)
- Verification of max. (min.) duration of a treatment
example: max. 10 days of phototherapy
type: specific (Jaundice), fictive (but corresponds to medical knowledge)
- Verification of non-compatible treatments
example: not more than 3 trials with intensive phototherapy
type: specific (Jaundice), fictive (*ditto*)

Examples of properties

- Verification of traces of actions with respect to the protocol
Type: general, fictive
- Properties for particular patient groups
example: refinements of patient groups (age, urgency of the complications, urgency of diabetes)
Type: chronic disease protocols, fictive
- Properties with respect to treatments
example: interactions between the Diabetes treatment and the treatment of related diseases
Type: chronic disease protocols, fictive

Next step

- Do we have significant examples for all the properties?
- How to model these properties into KIV?
- Do we want more properties?

Question?

“difficulty of protocol”

- Difficulty in modelling
- Difficulty in applying the protocol

How does this relate with properties?