

## Planning WP4 Verification of reference protocols

## Summary of relevant protocol properties

- Properties at the implementation level /  
Asbru-dependent properties:
  - termination of plans
  - intentions follow from plans
  - replacement/refinement of plans
  - redundancy of subplans
  - various (low-priority) internal coherence  
properties

## Summary of relevant protocol properties (cont.)

- Properties at the conceptual level / (more) protocol-dependent properties:
  - correctness properties:
    - intentions follow from plan (includes correct (de)composition of intentions?)
  - safety properties:
    - verification of max./min. duration of a treatment
    - verification of non-compatible treatments
  - verification of traces of physician actions with respect to the protocol
  - treatment patterns:
    - verification of traces of required actions

## Summary of relevant protocol properties (cont.)

- Properties at the conceptual level / protocol-dependent properties (cont.):
  - properties about complications of a particular patient group
  - properties about interactions with the management of other related diseases

## What do we need?

- A decision on the scope/depth of the properties to verify
  - success-driven: think about examples and pick up a promising one (let CBO choose!) to start with
  - don't forget the added value of our findings:
    - verified protocols
    - list of properties
    - assumptions/requirements under which they hold

## What do we need?

- Medical support:
  - Examples of conceptual/protocol-dependent properties, e.g.
    - intentions,
    - max./min. durations of treatments (we do have max. duration of phototherapy for Jaundice!),
    - non-compatible treatments,
    - traces of physician actions (we do have traces of physician actions for Jaundice!), etc

## What do we need?

- KIV support:

*...Michael???*

## What is next?

- Fix internal milestones? e.g.
  - CBO: examples of protocol properties (with preferences!) by...
    - end of Feb
  - necessary KIV support by...
    - to decide early in Mar: teleconference 11/3 @12h
  - complete KIV formalisation of reference protocols by...
    - end of Feb (Asbru model), end of April (KIV formalisation)

## What is next? (cont.)

- Distribute verification effort?
  - according to preferences of teams...