

# Health Care Privacy Scenario

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Consider a health care scenario involving the privacy of patient's protected health information.

Hospitals are bound by law to keep their patient's electronic health records (EHR) private. Therefore, when a patient is admitted to a hospital, the physician treating the patient must not publish the patient's protected health information (PHI) online. However, the physician may share the patient's PHI with a colleague to get an expert opinion. Moreover, the physician may share the patient's PHI with the patient's family when there is an emergency.

## Agents

PHYSICIAN, PATIENT, HOSPITAL

## Propositions

*true, emergency, patient\_visit, access\_ehr, publish\_phi\_online, share\_phi\_colleague, share\_phi\_family*

## Deliverables

- Specify the natural language requirements for the scenario
- A requirements analyst has come up with the following norms for the scenario:

$P(\text{PHYSICIAN}, \text{HOSPITAL}, \text{true}, \text{publish\_phi\_online} \text{ OR } \text{share\_phi\_colleague})$

$A(\text{PHYSICIAN}, \text{HOSPITAL}, \text{true}, \text{share\_phi\_family})$

Your task is to come up with a refinement of this design using the above agents and propositions, so as to satisfy the requirements for the scenario.