Based on the given predicates and the instructions to instantiate the pattern for a safety case of a GPCA system, we will fill in the placeholders (denoted by `{}`) with specific values and present the instantiated safety case in a hierarchical tree format. Let's assume the system is a Generic Patient-Controlled Analgesia (GPCA) system with specific operational hazards and scenarios.

Here's an example instantiation:

- \*\*Goal (G1, Operational safety is verified in GPCA system)\*\*

- \*\*Strategy (S1, Argument over the satisfaction of all specs over GPCA system)\*\*

- \*\*Context (C1, All specs are given by {spec.allInstances()})\*\*

- \*\*Goal (G2, All operational hazards are mitigated)\*\*

- \*\*Strategy (S3, Argument over operational hazards)\*\*

- \*\*Context (C2, Operational hazards are given by {operational hazard.allInstances()})\*\*

- \*\*Goal (G3, Overdose hazard is mitigated)\*\*

- \*\*Strategy (S4, Argument over the applied scenarios of Overdose hazard)\*\*

- \*\*Context (C3, All related scenarios are given by overdose.hazard.scenario.allInstances())\*\*

- \*\*Goal (G4, Overdose hazard is mitigated under Over-infusion scenario)\*\*

- \*\*Strategy (S5, Argument over all specs related to Over-infusion scenario)\*\*

- \*\*Context (C4, All related specs are given by scenario.spec.allInstances())\*\*

- \*\*Goal (G5, Over-infusion specification is appropriate for Over-infusion scenario)\*\*

- \*\*Strategy (S6, Argument the appropriateness of Over-infusion specification over properties)\*\*

- \*\*Context (C5, Properties are given by spec.property.allInstances())\*\*

- \*\*Goal (G6, Dose accuracy property is appropriate for Over-infusion specification)\*\*

- \*\*Strategy (S7, Argument over the source of the Dose Accuracy Property definition)\*\*

- \*\*Context (C6, Source is given by property.source)\*\*

- \*\*Goal (G7, Clinical guidelines are appropriate and trustworthy)\*\*

- \*\*Solution (Sn1, Clinical Guidelines Document)\*\*

- \*\*Goal (G8, Dose accuracy property definition is sufficient)\*\*

- \*\*Solution (Sn2, Dose Accuracy Property Definition Document)\*\*

- \*\*Strategy (S2, Argument over reliability in all suitable levels of GPCA system)\*\*

To visualize the hierarchical tree structure using dashes:

```

- Goal (G1, Operational safety is verified in GPCA system)

- Strategy (S1, Argument over the satisfaction of all specs over GPCA system)

- Context (C1, All specs are given by {spec.allInstances()})

- Goal (G2, All operational hazards are mitigated)

- Strategy (S3, Argument over operational hazards)

- Context (C2, Operational hazards are given by {operational hazard.allInstances()})

- Goal (G3, Overdose hazard is mitigated)

- Strategy (S4, Argument over the applied scenarios of Overdose hazard)

- Context (C3, All related scenarios are given by overdose.hazard.scenario.allInstances())

- Goal (G4, Overdose hazard is mitigated under Over-infusion scenario)

- Strategy (S5, Argument over all specs related to Over-infusion scenario)

- Context (C4, All related specs are given by scenario.spec.allInstances())

- Goal (G5, Over-infusion specification is appropriate for Over-infusion scenario)

- Strategy (S6, Argument the appropriateness of Over-infusion specification over properties)

- Context (C5, Properties are given by spec.property.allInstances())

- Goal (G6, Dose accuracy property is appropriate for Over-infusion specification)

- Strategy (S7, Argument over the source of the Dose Accuracy Property definition)

- Context (C6, Source is given by property.source)

- Goal (G7, Clinical guidelines are appropriate and trustworthy)

- Solution (Sn1, Clinical Guidelines Document)

- Goal (G8, Dose accuracy property definition is sufficient)

- Solution (Sn2, Dose Accuracy Property Definition Document)

- Strategy (S2, Argument over reliability in all suitable levels of GPCA system)

```

This structure shows the hierarchical relationships and instantiations of the assurance case elements for ensuring the safety of a GPCA system. The actual dosage, hazards, properties, and definitions would be filled in based on the system-specific details in a real-world application.