To instantiate the safety case pattern provided into a concrete safety case for a GPCA system, we'll replace the placeholders `{system}`, `{operational hazard}`, `{scenario}`, `{spec}`, `{property}`, and `{Source}` with specific examples. We'll assume this is for a Generic Patient-Controlled Analgesia (GPCA) system handling dosing hazards under varying patient situations.

### Instantiation

- `{system}` -> "GPCA pumps"

- `{operational hazard}` -> "Overdose"

- `{scenario}` -> "Patient with varying body weights"

- `{spec}` -> "Dose regulation based on weight"

- `{property}` -> "Dosage accuracy"

- `{Source}` -> "Clinical guidelines"

### Hierarchical Safety Case Structure

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

--> Strategy (S1, "Argument over the satisfaction of all specs over GPCA pumps") [Uninstantiated]

--> Goal (G2, "All operational hazards are mitigated")

--> Strategy (S2, "Argument over reliability in all suitable levels of GPCA pumps") [Uninstantiated]

---> Strategy (S3, "Argument over operational hazards")

----> Goal (G3, "Overdose is mitigated")

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

------> Goal (G4, "Overdose is mitigated under Patient with varying body weights")

------> Strategy (S5, "Argument over all specs related to Patient with varying body weights")

------> Goal (G5, "Dose regulation based on weight is appropriate for Patient with varying body weights")

------> Strategy (S6, "Argument the appropriateness of Dose regulation based on weight over properties")

------> Goal (G6, "Dosage accuracy is appropriate for Dose regulation based on weight")

------> Strategy (S7, "Argument over the source of the Dosage accuracy definition")

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

------> Solution (Sn1, "Clinical guidelines validation")

------> Goal (G8, "Dosage accuracy definition is sufficient")

------> Solution (Sn2, "Research on dosage accuracy")

```

### Context Details

- Context (C1, "All specs are given by dose regulation specifications for all GPCA pumps")

- Context (C2, "Operational hazards are given by typical dosing error risks in GPCA pumps")

- Context (C3, "All related scenarios are given by different patient body weights and conditions")

- Context (C4, "All related specs are given by dose regulations for each body weight scenario")

- Context (C5, "Properties are given by accuracy requirements in dose calculations")

- Context (C6, "Source is given by clinical guidelines and studies")

### Connections between Contexts and GSN Elements:

- The instantiation assumes all required contexts are associatively linked correctly to strategies and goals as needed, based on the instantiated values.

This tree structure effectively visualizes the argumentation lines from top-level safety goals down through strategies, specific operational mitigation goals, scenarios, specifications, and properties, ending with evidence provided through solutions. All placeholders have been replaced with specific instances relevant to the domain and context of GPCA pump safety.