Given the predicates and details for the safety case pattern of the Generic Patient-Controlled Analgesia (GPCA) system, I will instantiate this pattern based on the domain information provided earlier. Here’s the instantiated safety case in a hierarchical structure:

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G1: Operational safety is verified in GPCA system

- S1: Argument over the satisfaction of all specs over GPCA system (undeveloped)

- C1: All specs are given by Flow rate sensor, Period trigger, Rate percentage

- G2: All operational hazards are mitigated

- S3: Argument over operational hazards

- G3: Overinfusion is mitigated

- S4: Argument over the applied scenarios of Overinfusion

- G4: Overinfusion is mitigated under excessive bolus request scenario

- S5: Argument over all specs related to excessive bolus request

- G5: Dose limit exceeded due to excessive bolus requests is appropriate for excessive bolus request scenario

- S6: Argument the appropriateness of Dose limit specs over properties

- G6: The property "Dose limit" is appropriate for Dose limit spec

- S7: Argument over the source of the "Dose limit" definition

- G7: FDA standard is appropriate and trustworthy

- Sn1: Ref to FDA standard document

- G8: "Dose limit" definition is sufficient

- Sn2: Detailed definition of "Dose limit" based on expert opinion

- C4: All related specs are given by GPCA requirements document

- C3: All related scenarios are given by Overinfusion hazard documentation

- C2: Operational hazards are given by GPCA safety requirements analysis

- S2: Argument over reliability in all suitable levels of GPCA system (undeveloped)

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Explanation:

- The hierarchy shows goals (G), strategies (S), solutions (Sn), and contexts (C) laid out according to their relationships (SupportedBy and IncontextOf).

- Descriptions of each goal and strategy have been instantiated with specific information relating to the GPCA system and typical operational hazards it addresses.

- Placeholders are replaced based on domain specifics like GPCA system components, operational scenarios, and references.

- Certain strategies are marked as undeveloped, suggesting areas that require further elaboration in future iterations of the safety case.