Here's a simplified example of how to structure a safety case for a Generic Patient-Controlled Analgesia (GPCA) system using Goal Structuring Notation (GSN) in a textual, hierarchical tree format:

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Safety Case for GPCA System

- G1: Ensure that the GPCA system is safe for patient use

- G1.1: Ensure the GPCA system accurately controls the delivery of analgesic medication.

- S1.1: The system complies with international safety standards for medical device software.

- S1.2: The system meets the accuracy requirements as per clinical guidelines.

- S1.3: Continuous monitoring and adjustment of the medication dosing.

- G1.2: Ensure that the GPCA system is tamper-proof.

- S1.4: The system has security measures in place to prevent unauthorized access.

- S1.5: The system performs regular security audits and updates.

- G1.3: Ensure that the GPCA system is fail-safe.

- S1.6: The system has multiple redundant safety mechanisms.

- S1.7: The system automatically shuts down in the event of a critical failure.

- G1.4: Ensure that the GPCA system provides alarms and warnings for critical conditions.

- S1.8: The system includes visible and audible alarms for critical thresholds.

- S1.9: The system provides clear and actionable instructions in the event of an alarm.

- G2: Ensure the GPCA system software is reliable

- G2.1: Ensure the software functions correctly under all defined operating conditions.

- S2.1: The software has been tested under all scenarios outlined in the user requirements.

- S2.2: The software complies with real-time performance requirements.

- G2.2: Ensure that the software maintains data integrity.

- S2.3: The software implements end-to-end data encryption.

- S2.4: The software allows audit trails for all critical operations.

- G3: Ensure user training and support for the GPCA system

- G3.1: Ensure that all users are adequately trained.

- S3.1: The system includes an accessible user manual.

- S3.2: Training programs are developed and regularly updated.

- G3.2: Ensure there is support available for troubleshooting and maintenance.

- S3.3: 24/7 customer support system.

- S3.4: Regularly scheduled maintenance checks and updates.

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This representation outlines a basic safety case. Each goal (G) and its corresponding strategy (S) are outlined clearly. Each goal articulates what needs to be achieved, and each strategy specifies how the associated goal's intent will be demonstrated. Further expansions can include more in-depth strategies or sub-goals, evidence items, and further context definitions, which add depth and resilience to the safety assurance argument.