Clinical Scenario #1
Patient Controlled Analgesia

Part 2: Workflow Diagrams
Working Draft Version 5.1

Quantum Medical Device Interoperability (QMDI) Project

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Clinical Workflow

This PCA Safety Interlock workflow has served as a prototype to refine our clinical scenario requirements analysis methodology. This work began in 2005 and was ultimately published in Annex B of the ASTM F2769-09 (ICE) standard. Originally these workflows were documented in Microsoft Visio, then in Altova UModel, but neither tool was a good fit. The depictions included in this series of documents were created in Enterprise Architect.

Key for Workflows:

- Diagram Boxes in Green signal a Manual Clinical Process (i.e. a nurse hangs an IV bag)
- Diagram Boxes in Red signal that a Comparison between two data points is required (compare dose on pump with dose in order)
- A ∞ at the bottom of a workflow block signals that there is an additional page of workflow.

Diagram: Infusion Therapy

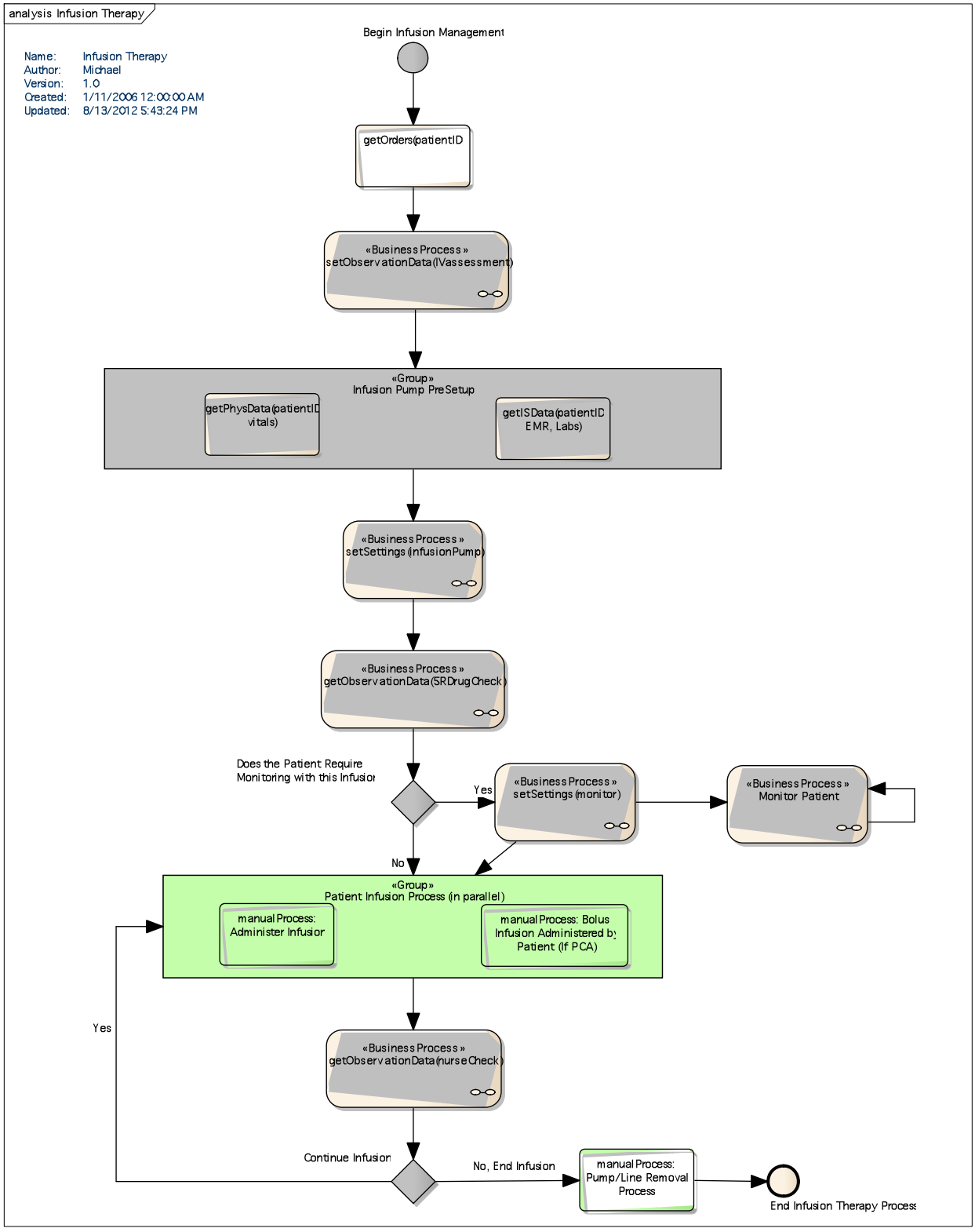

Diagram: IV Assessment

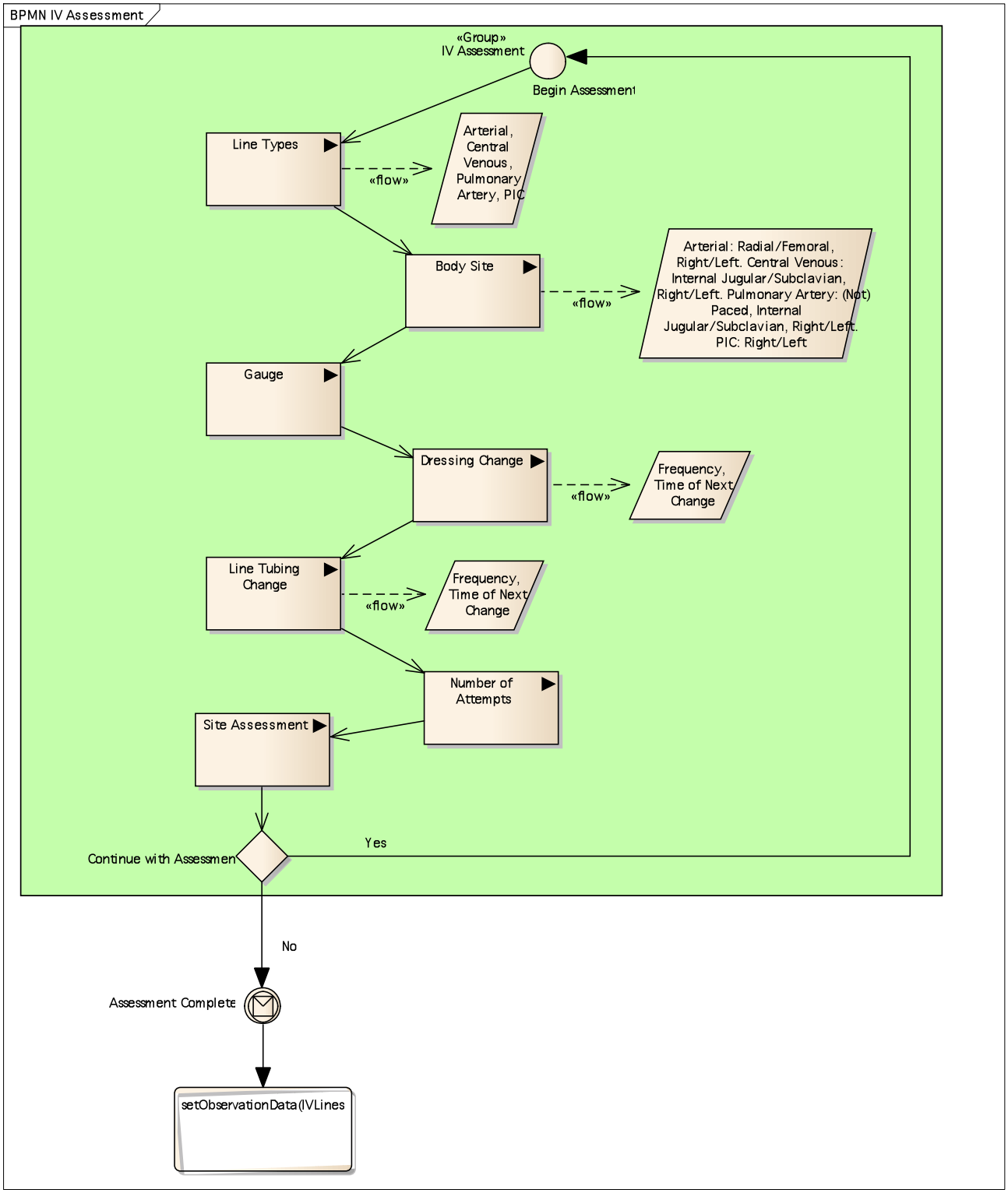

Diagram: 5R Drug Administration

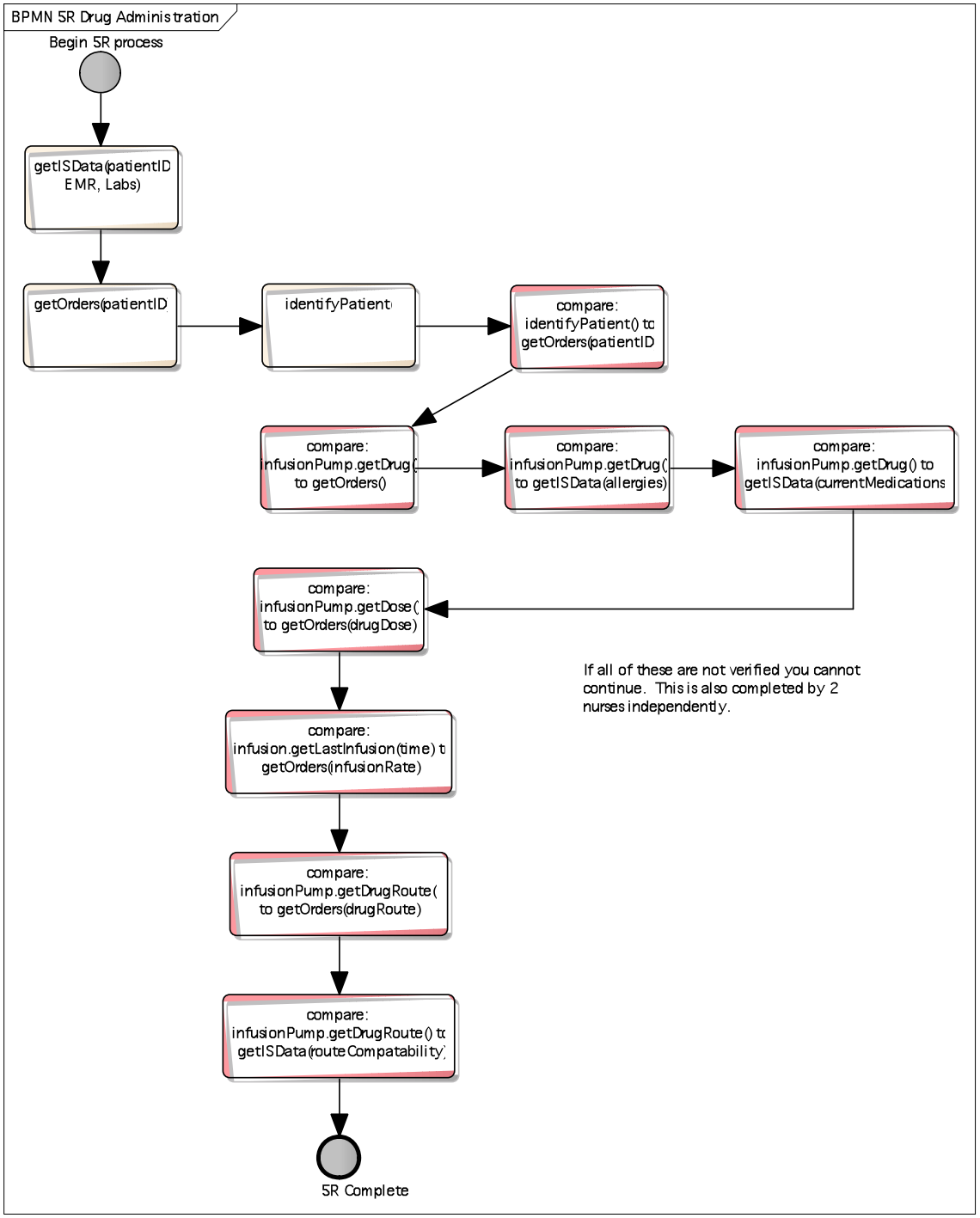

Diagram: Monitor Patient

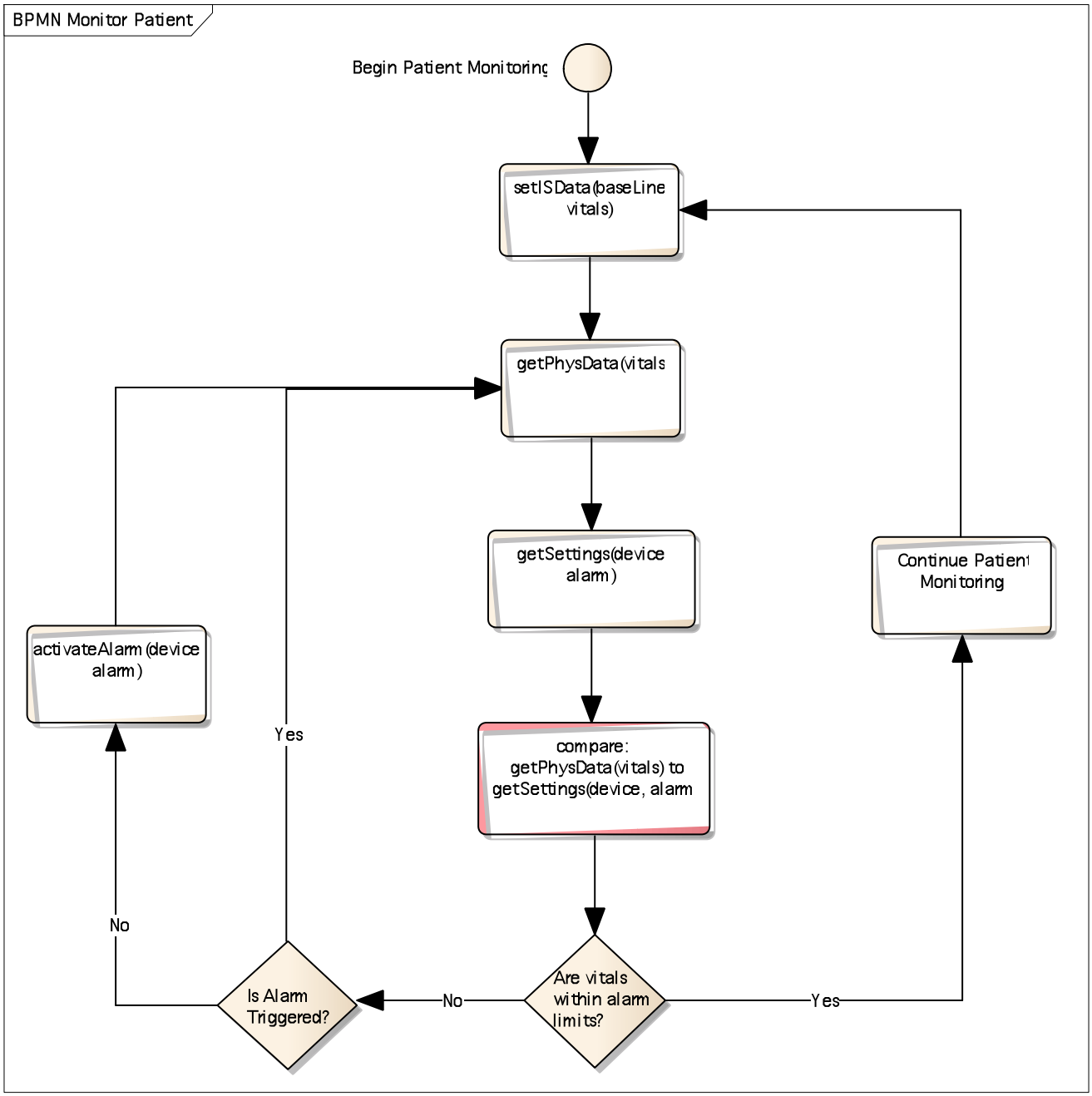

Diagram: Periodic Nursing Check

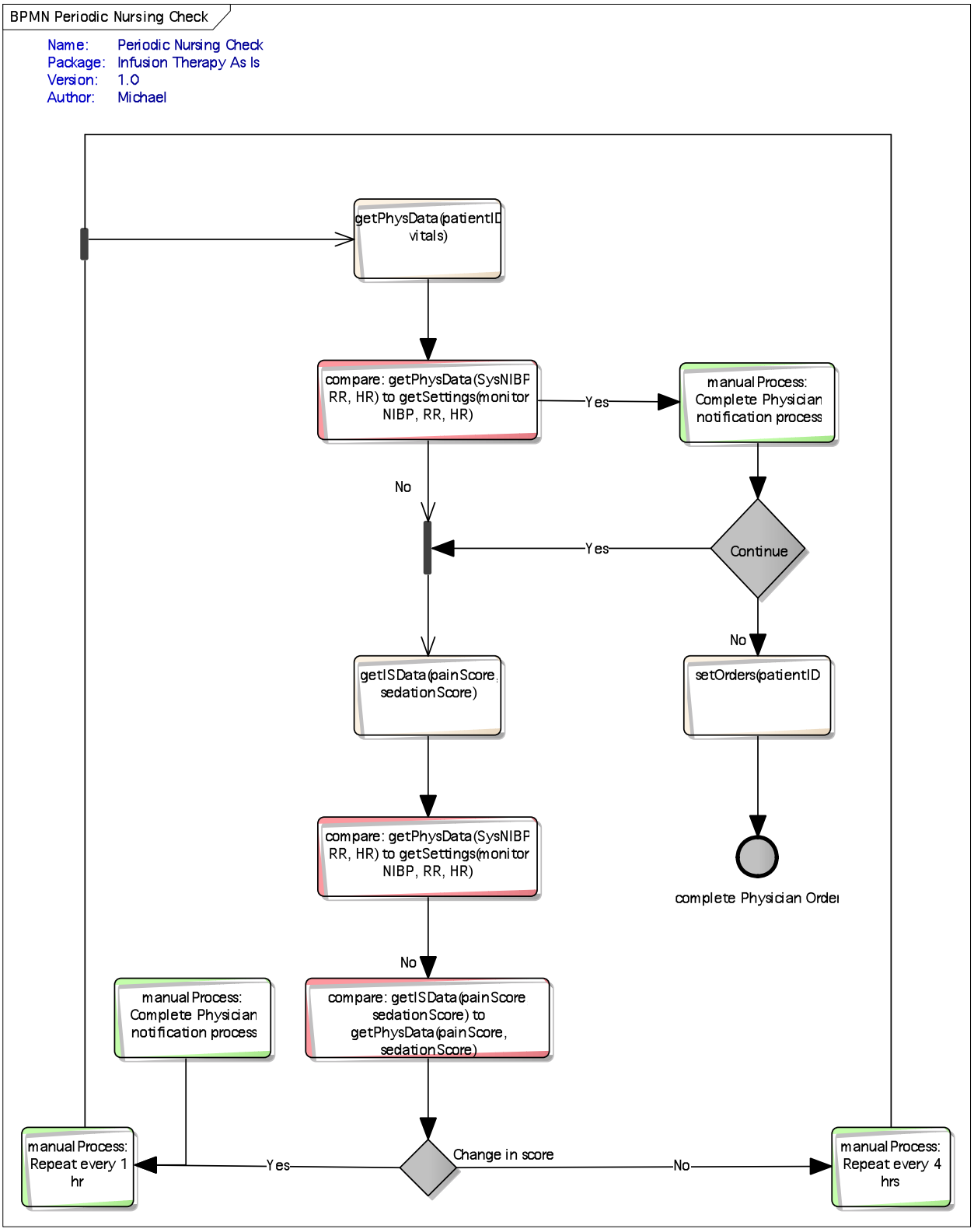

Diagram: Set up Infusion

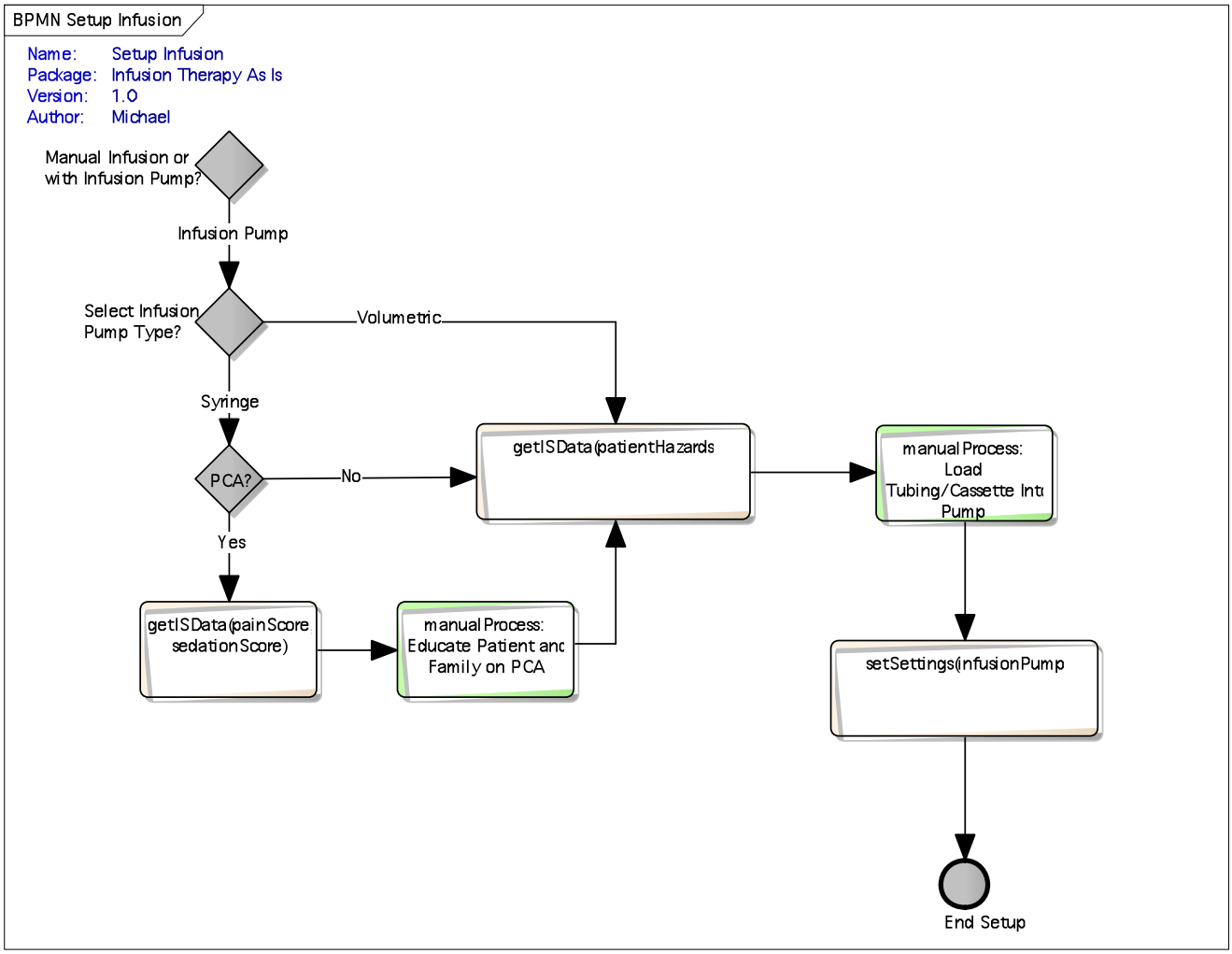
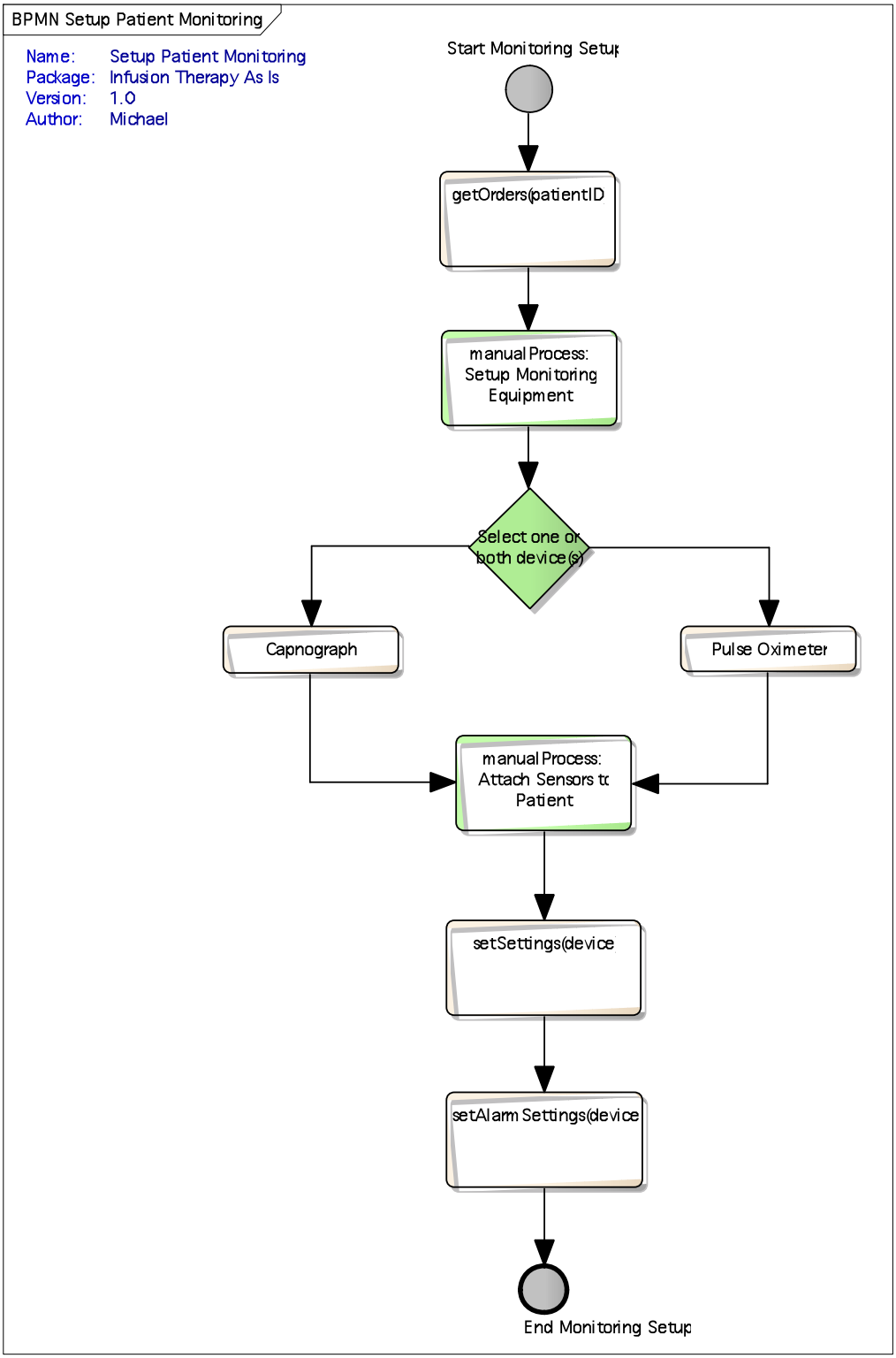
Diagram: Set up Patient Monitoring