

SOCRATES

Surgical Outcomes Classification, Risk Assessment, and Targeted Enhancement System

IHI Call Topic 2

Contact person name:

Clint Davis, Cdavis65@its.jnj.com

Tom Stacy, <u>Tstacy2@its.jnj.com</u>

Johnson&Johnson



SOCRATES: IHI Enabled Deliverables & Transformational Outcomes

3

Four Stage Collaboration

Global Validation,
Dissemination &
Adoption

Establish Standardized Classification System: DISH

Multinational consensus achieved: 40+ HCPS, 23 Countries, 17 Specialties. 4 publications, 6 society presentations

Multinational clinical validation: Prospective observational studies to test inter-rater reliability, sensitivity/specificity, and feasibility Enabling Data Collection through Patient Surveillance

Digitalization of the Patient Pathway: Enable data collection through postdischarge monitoring of patients (image capture, symptom questions)

Digital integration: Enable integration with electronic health records and registries

Digital Automation: Define evidence-based thresholds for triage to in-person or virtual care

Predicting Outcomes: Retrospective Data Analysis

Data collection: De-identified EHR + claims + registry data mapped to the DISH classification

Feature engineering: Include non-SSI events historically under-captured (dehiscence, seroma, hematoma) to reflect the DISH classification

Modeling: Train/test ML models for 30-day SSO risk and 90-day readmission

Defining the Standard of Care: Outcomes & Data Mining

Outcomes & pathway mining: Combine WP2 prospective data and WP3 retrospective analytics to identify practice patterns >

outcomes relationships

Guideline & education: Draft consensus-based guidance with specialty societies; deploy surgeon/nurse education and patient-facing materials; create open-access toolkits for hospitals and ministries.





SOCRATES Expertise & IHI Resources Needed

This project is redefining surgical care through data-driven innovation. It empowers patients and caregivers with informed choices, equips providers with actionable insights, enables industry to standardize care and accelerate product development, and offers academics a rich foundation for evidence-based research and discovery.

- We have:
 - Patient Surveillance Classification System: DISH
 - Primary Medical Lead: Dr. Marja Boermeester, AUMC
- We are looking for:
 - Health Infrastructure Surgeons, specialists
 - Global Health Networks Patient Data Collection
 - Industry Partners Pharma, Medtech, Biotech, Small Medium Enterprises (SMEs)
 - Wound Care Leaders Surgical gloves, dressing, supplies
 - Digital + Al
 - Patient engagement, diversity, equity, literacy
 - Bedside Biometrics and Biosensors
- Expected Duration & Budget
 - 4-5 years
 - Budget: 15 mln € IHI funding + 15 mln € in-kind from industry



For any questions, please reach out to:

Clint Davis, Cdavis65@its.jnj.com

Tom Stacy, <u>Tstacy2@its.jnj.com</u>

