



Drain monitoring reimaged.



Overextended patient stay means...

- Higher risk of patient complications
- Higher costs for the hospital
- Undue stress on the patient and medical staff/hospital

Monitoring surgical drains
is a **manually intensive** task

It is repetitive, erroneous, and
time consuming

Feature

Standard Practice



Continuous and accurate monitoring and recording of drain rate



Wireless relay of information to patient's EHR



Alert medical staff of abnormal drain rate



Aggregate record of time of discharge across surgeries



Requires the oversight of a medical professional





An **automated** postoperative drainage system
Continuous, accurate, and interoperable

Market Research

Interview with a Nurse Practitioner

- Walk-through post-op drain maintenance and complications
- E.g., monitor drain every 4 hours, expect 25-40 cc/hr, duration of patient stay dictated by discharge rates and insurance

Interview with Hepatobiliary and Pancreatic Surgeon:

- Introduced potential for amylase detection –important indicator in post-op pancreatic surgery → SOM

Key takeaway: The standardization of post-op patient discharge times would save all key stakeholders time/money, and most importantly, improve the patient experience.

The system would also monitor for P3 amylase levels during pancreatic operations

High P3 amylase levels:

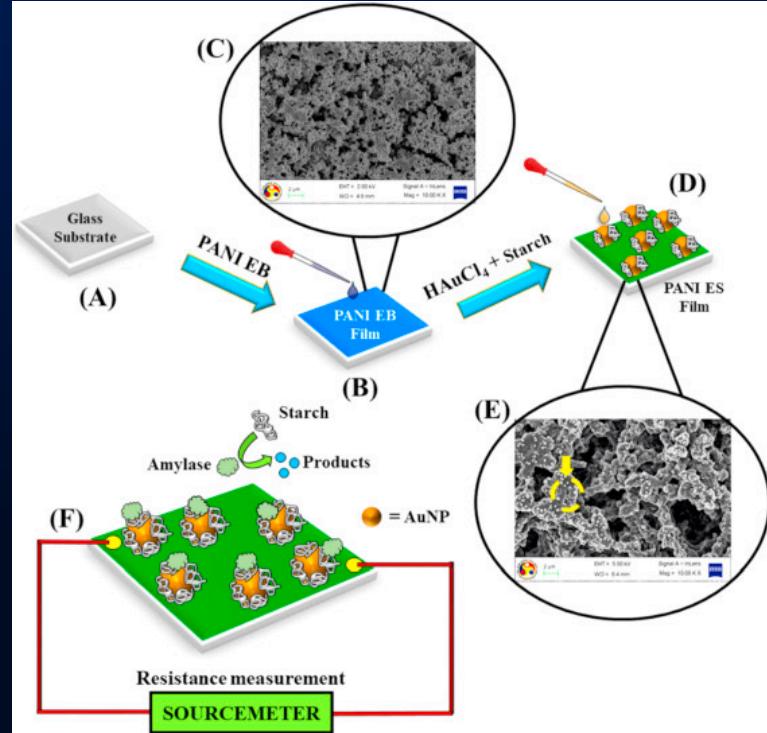
- Potential postoperative pancreatic fistula
- Complications in patients with acute pancreatitis.

Low P3 amylase levels:

- Potential for early drain removal

Amylase Activity Assay Kits

- Colorimetric
- Fluorescent-based
- Blood serum/saliva biosensors
- Starch → resistance (right)
- Tri-enzymatic, H₂O₂ → resistance





AccuFlow



Total Addressable Market
\$2.18 billion

Serviceable Available Market
North America

**Serviceable Obtainable
Market**
Active & closed drain
systems for pancreatic
surgeries



AccuFlow



Get FDA approval via
510(k) pathway



Wide patient impact

Develop a working
prototype



Join a medical device
company's portfolio

Baxter Medtronic
Johnson & Johnson

AccuFlow

Innovation

Scale

Lower Costs





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Thank You!

Join us in improving the
standard of postoperative care.

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