



# Automatic Surgical Tools Tracking and Monitoring System

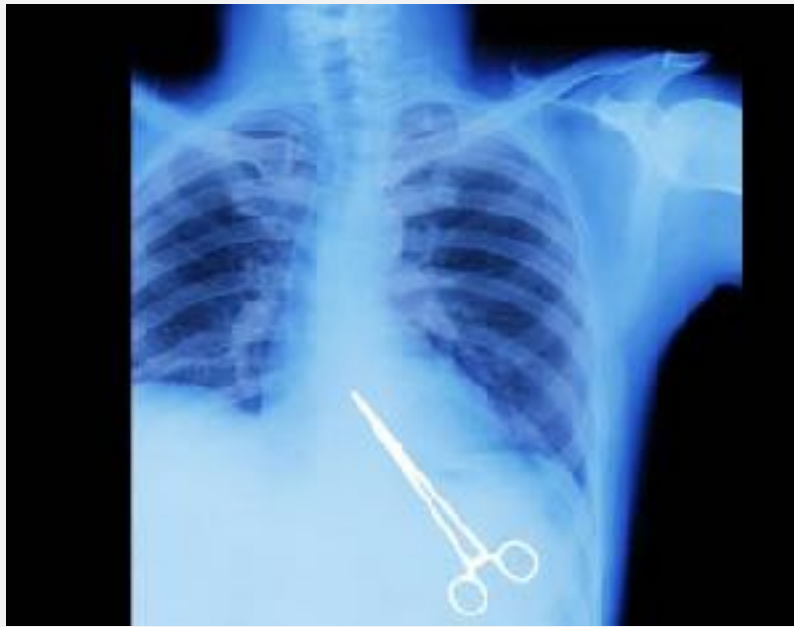
**Team 13:**

Ade Setyawan Sajim | Arif Nurhidayat | Bontor Humala | Lina Afriana | Priadi Teguh Wibowo

# Background | Real Life Cases



A 12-inch-long malleable retractor was left inside a man's chest!



A surgical clamp was trapped inside a man's abdomen... twice!



Removal of small intestine and colon parts due to surgical sponge mistaken for a tumor!

**SCARY?**

IMAGINE THAT IT HAPPENS TO YOU OR YOUR FAMILY!

# Highlighted Facts | Retained Surgical Items (RSIs)

In current manual checklist:



**~88%**

of RSIs in “correct” match  
(1985-2001, Massachusetts)

~1 RSI per 5,500 case in US



**Hospital huge loss**

(~\$50,000 to \$200,000 / legal case)

# Team 13 | Members



Automatic Surgical Tools  
Tracking and Monitoring



Ade Setyawan S.



Arif Nurhidayat



Bontor Humala



Lina Afriana



Priadi Teguh W.

User Interface

Web Design

Patient

Machine Learning

Software Design

Research

Entrepreneurship

Graphic Design

Computer Vision

Sensors



DEMO | HACKEYES

Let us show you our  
cool product!



A photograph of several surgeons in an operating room, wearing green scrubs, masks, and caps, focused on a surgical procedure. The scene is brightly lit, and various surgical instruments are visible on the table.

# THANK YOU!

We are open to any question,  
feedback, and advice!



108 SHOP liquid dish washer.

SUPER  
CLEAN