BOSTON SCIENTIFIC ENDOSCOPIC MUCOSAL RESECTION DEVICE





Boston

Advancing science for life[™]

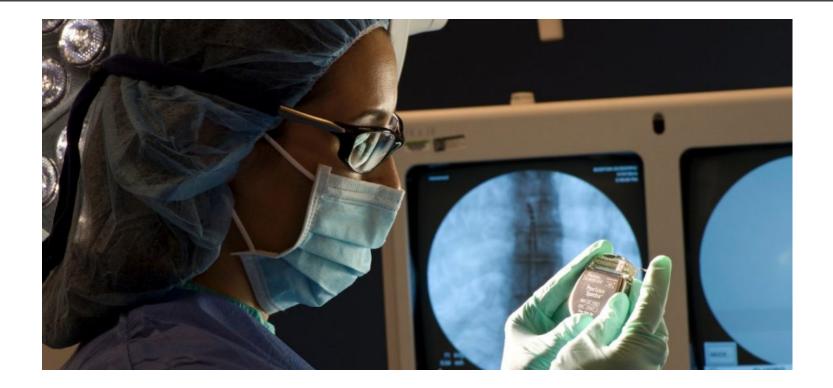
TEAM Toni Saylor Nagy Hakim Ellie Funkhouser Greg Coleman

ADVISOR Chris Lee

LIAISONS

Mike Sinisi Man Nguyen Paul Aquilino

BOSTON SCIENTIFIC AND SCOPE



Boston Scientific is dedicated to **transforming lives** through innovative medical solutions that improve the health of patients around the world.

ENDOSCOPIC MUCOSAL RESECTION



EMR treats Barrett's esophagus and early gastric cancer patients.

About 2.1 million Americans suffer from these conditions.

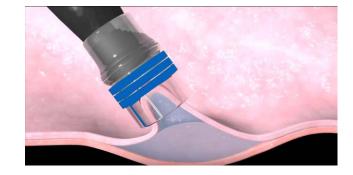
EMR is a less invasive and cheaper alternative to other surgeries.

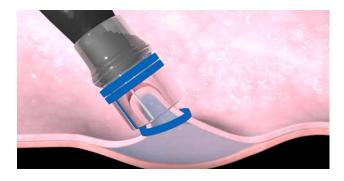
HOW IS EMR PERFORMED?

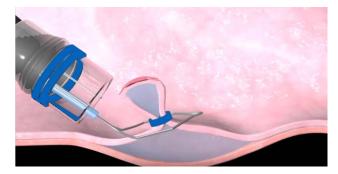
1. The lesion is sucked into the EMR cap

2. A band is deployed around the lesion

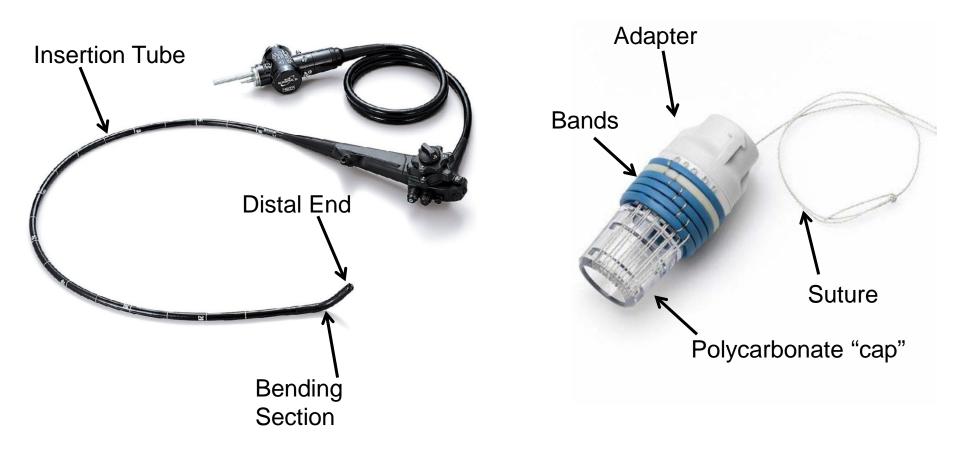
 The lesion is caught in the snare and it is tightened to resect



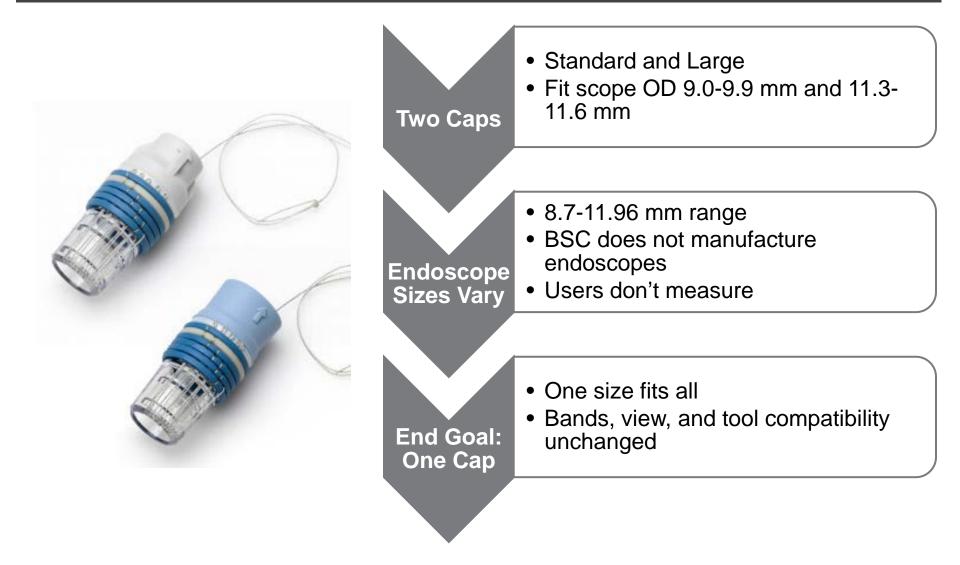




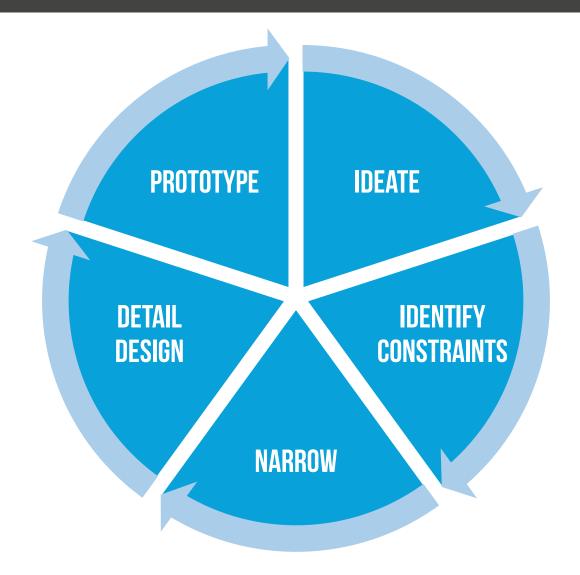
TERMINOLOGY (CURRENT DEVICE)



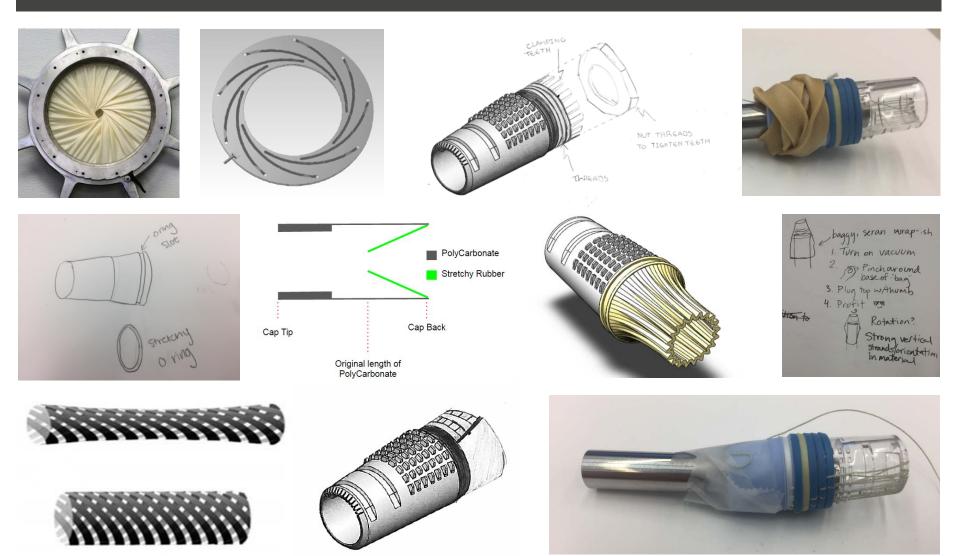
THE PROJECT DESCRIPTION



OUR PROCESS

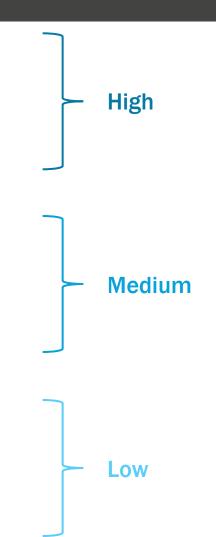


BLUE SKY IDEATION



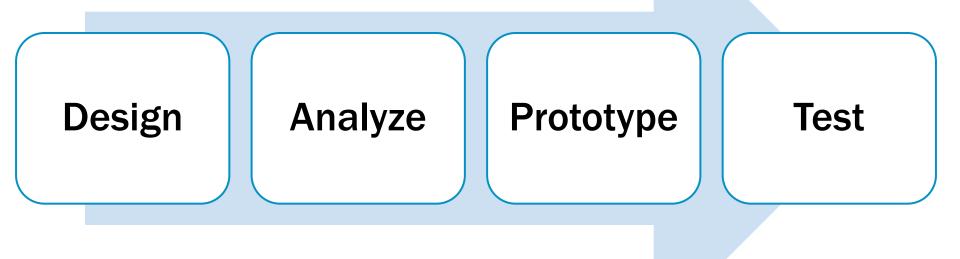
CONSTRAINTS

- 8.5-12 millimeter fit
- Atraumatic
- Low Risk of Damaging Scope
- Low Removal Force
- Good Suction
- Intuitive Setup
- Scope Maneuverability
- Retains Alignment
- Small Cap Outer Diameter



GOALS AND ACCOMPLISHMENTS

Goal: Identify a successful concept and show its feasibility. Stretch Goal: Prototype this such that it can be tested.



ACKNOWLEDGEMENTS

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