

A photograph of two surgeons in an operating room. The surgeon in the foreground is wearing a blue surgical cap, a white face mask, and a blue surgical gown. He is using a microscope to perform a procedure. The surgeon in the background is also wearing a blue surgical cap and a white face mask. The scene is lit with a cool blue light.

TISSUE APPPOSITION SYSTEM

Project from Ethicon Endo Surgery in 2006. A new set of instruments was to be designed for a new type of endoscopic surgery. Being a complicated and infrequent procedure, the tools needed to be intuitive as well as comfortable.

GASTROINTESTINAL SURGERY

MORE COST.

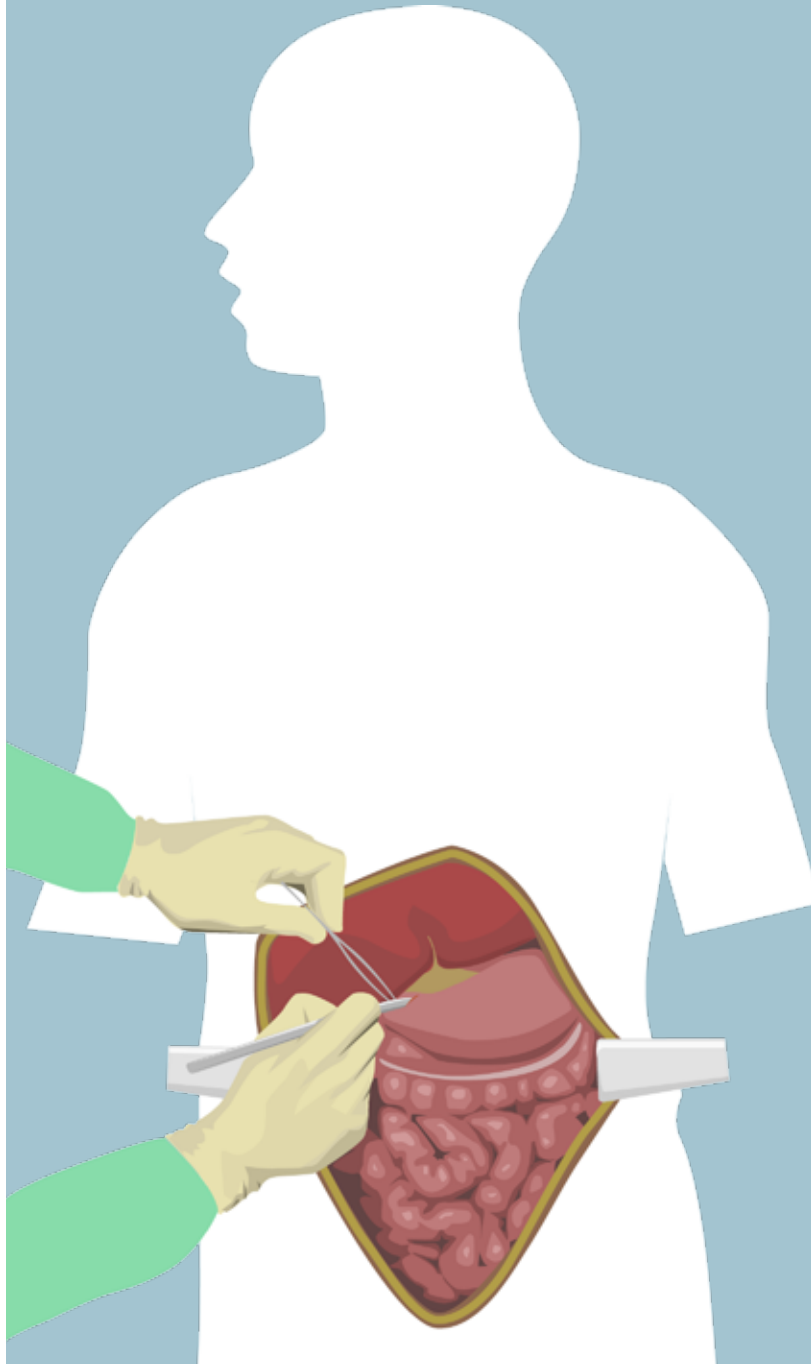
Many types of gastrointestinal surgeries are possible only by open surgery which adds complication to the procedure.

MORE RECOVERY

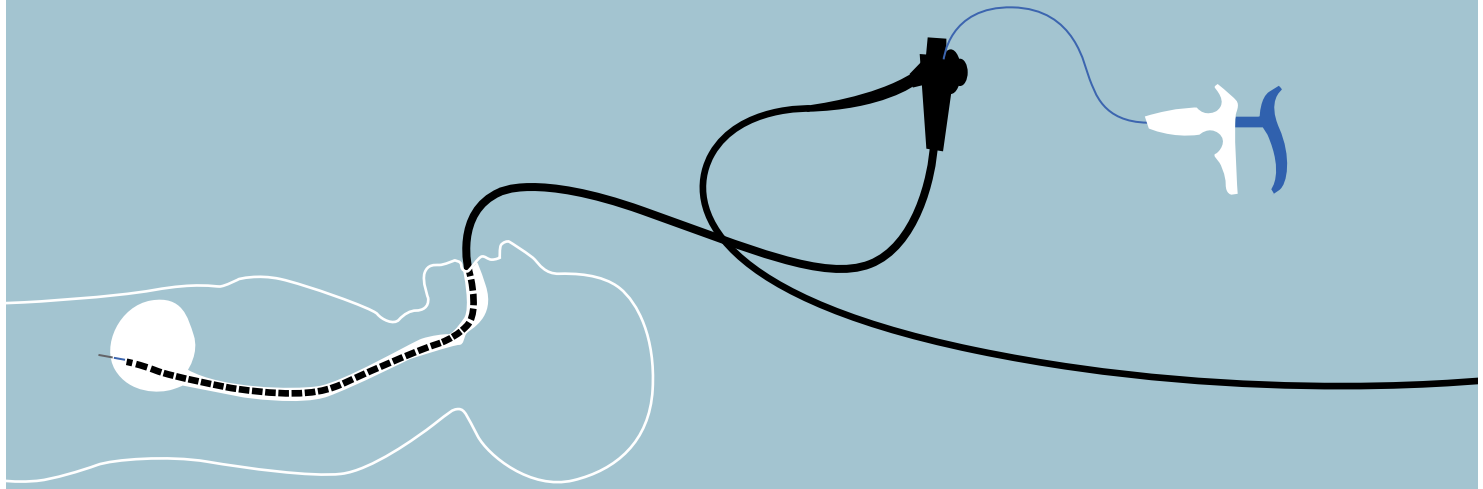
The recovery after such a procedure is significant as well as painful. A permanent scar is also left on the patient.

MORE WORRY

There is more of a risk of complications such as infection after the procedure. Also the high cost of the procedure makes difficulties for some without insurance.

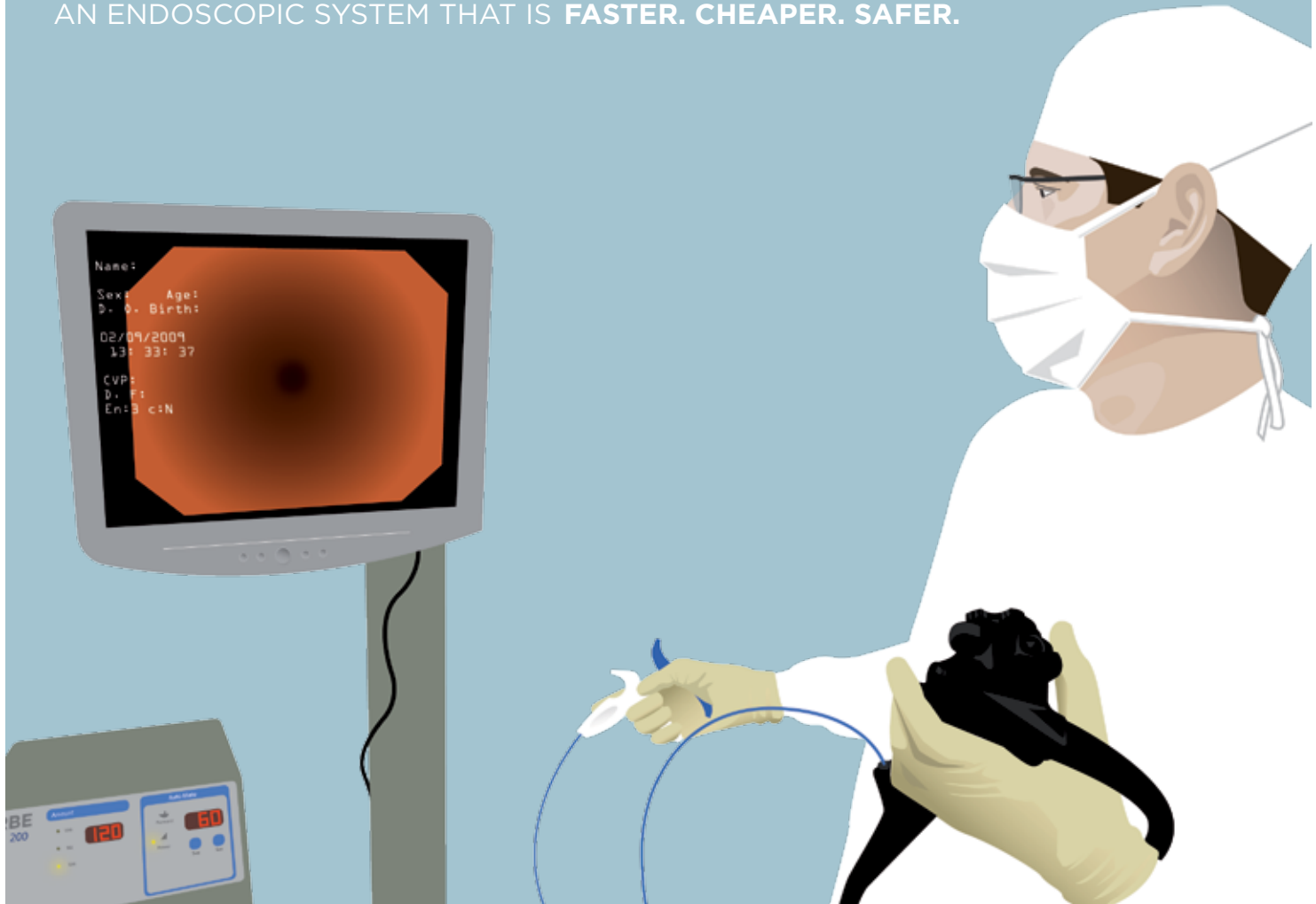


Design Opportunity



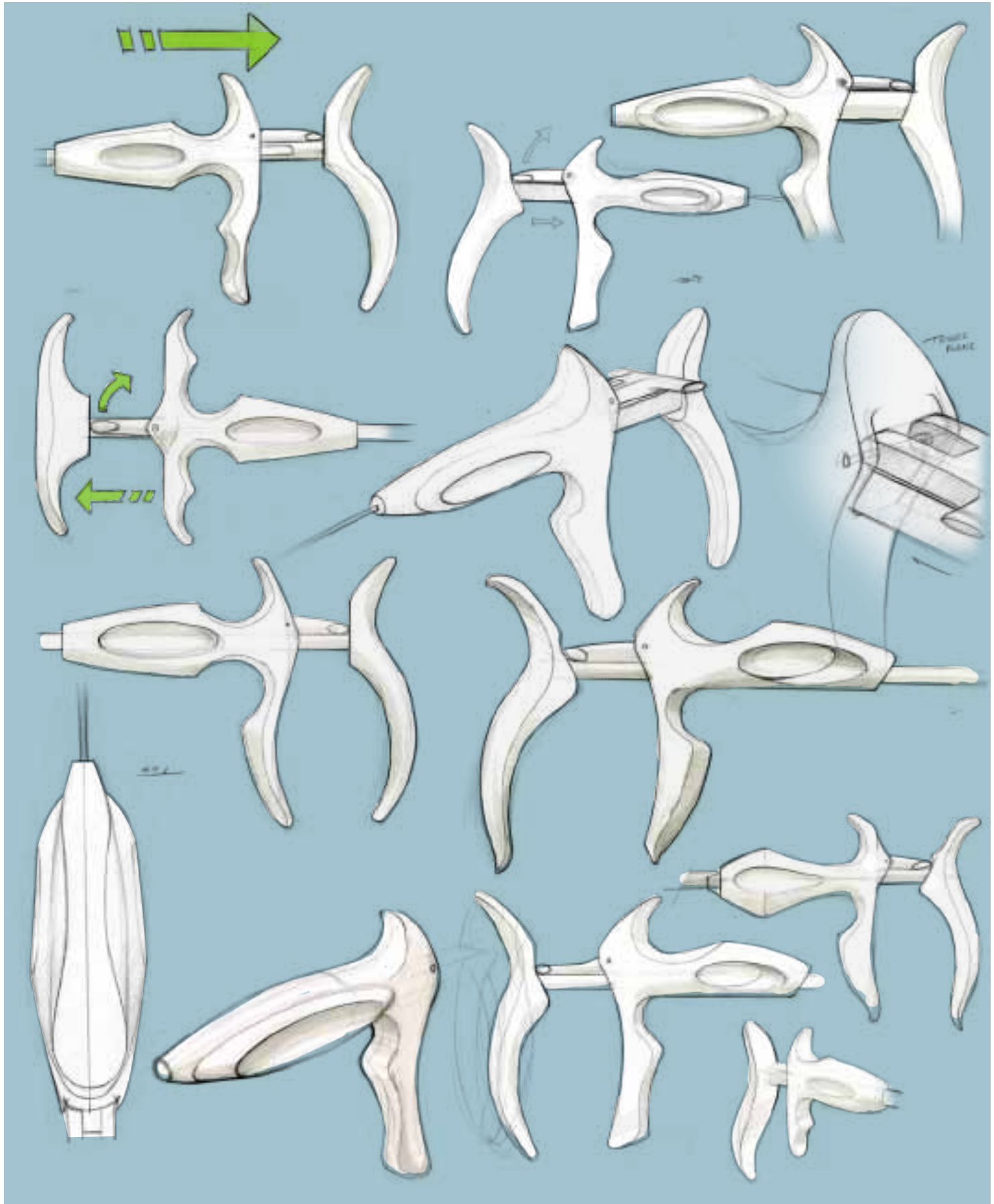
A BETTER WAY TO DO THINGS.

AN ENDOSCOPIC SYSTEM THAT IS **FASTER. CHEAPER. SAFER.**



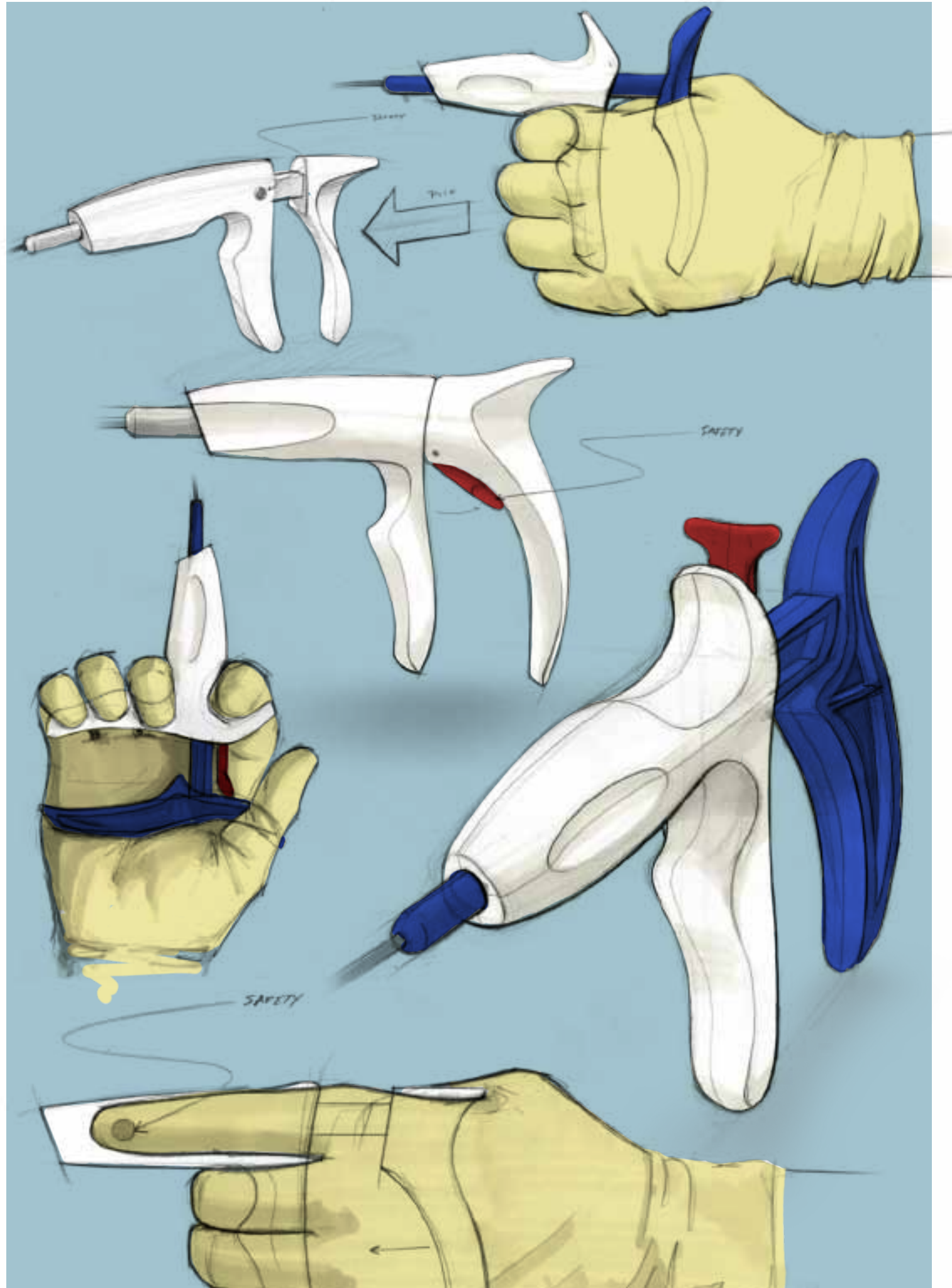
Proposed Solution

A set of ergonomic instruments to be used in tandem via endoscope channel.



Form Studies

Device required user to apply considerable pressure to work properly and also needed to be comfortable in a wide variety of hand sizes. These considerations were noted in the design of the handle.





FAST RECOVERY

INSCOPE'S TISSUE APPPOSITION SYSTEM IS DESIGNED TO REPAIR TISSUE INSIDE OF THE PATIENT VIA ENDOSCOPE.

THIS ELIMINATES THE NEED OF LARGE INCISIONS AND DRASTICALLY REDUCES RECOVERY TIME.

