

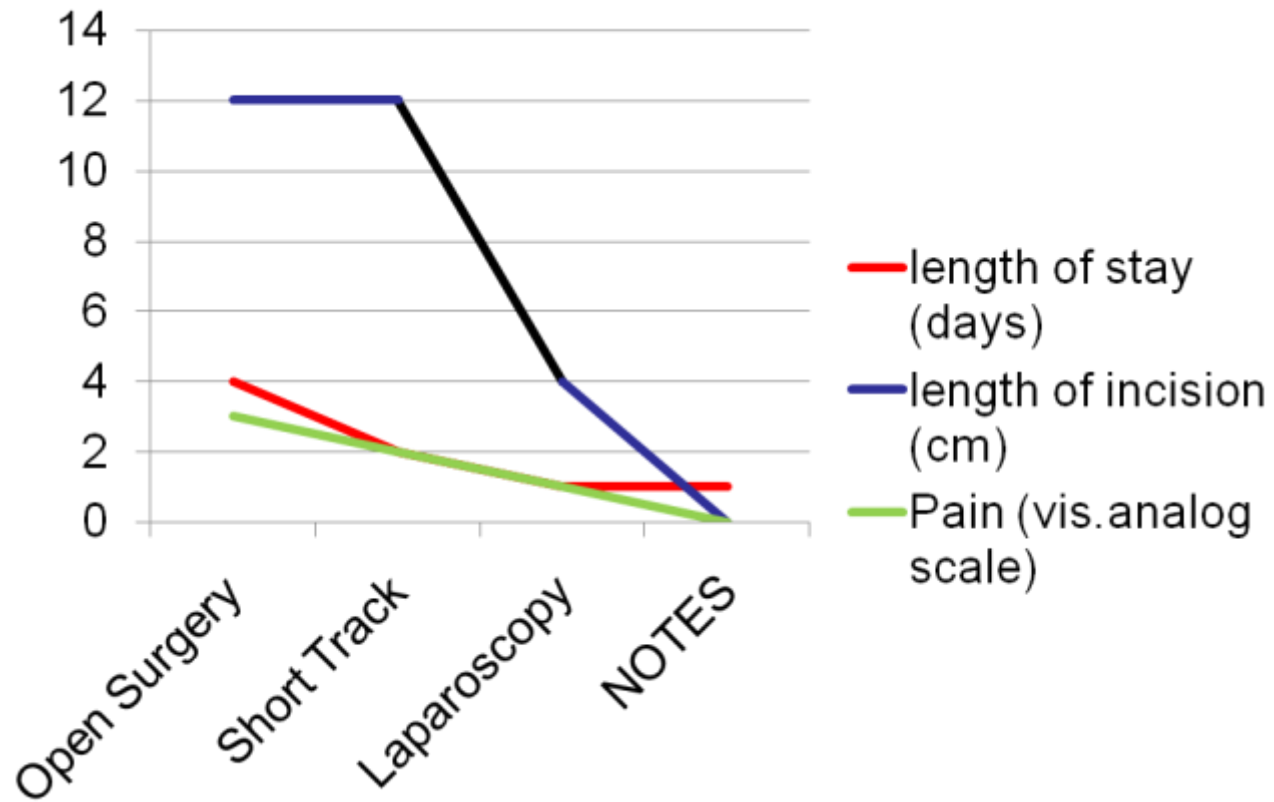
N.O.T.E.S.

A possible tool for same day surgery

Julie Dobbeleir, Jacques Himpens,
Michel Cremer, Guy-Bernard Cadière



Natural Orifice Transluminal Endoscopic Surgery



Sample: cholecystectomy

ircad

ircad

Access to target implies flexible
tools

autosuture[®]

Research & Development



Flexible Graspers & Shears

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Product Under Development, Not For Sale

N.O.T.E.S. Technical Implications

- Access to target implies flexible tools
 - flexible tools must be fixed when desired

Flexible tools must be fixed when desired

- Flexible, lock-able overtubes
Shapelock® Endoscopic Guides



USGI company

Flexible tools must be fixed when desired

- Neoguide® Systems
 - computer guided
 - uses sensors
 - multiple steerable segments~snake



Conventional Colonoscope



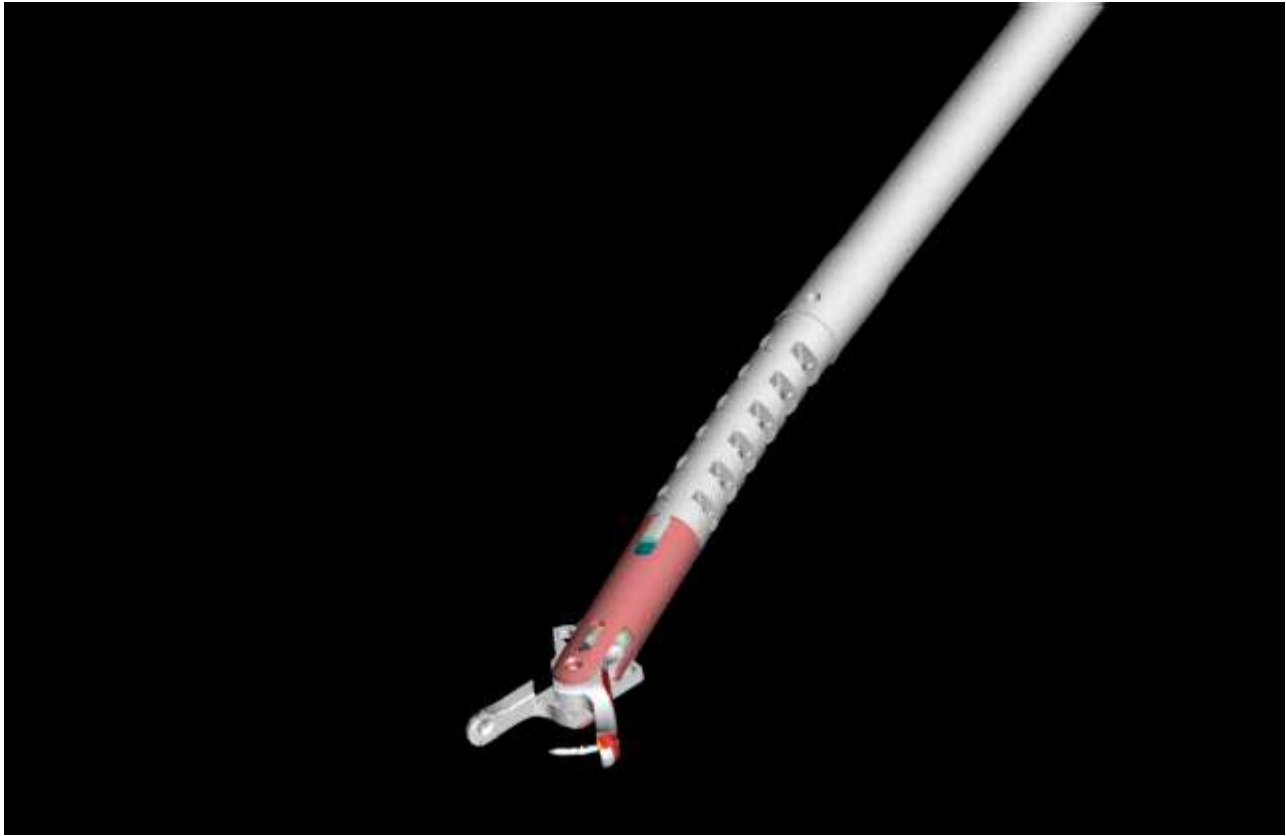
The NeoGuide Colonoscope

How the NeoGuide Technology Works

Long instrument shafts → loss of mechanical strength → alternative mechanisms for suturing



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Alternative mechanisms for suturing

- BARD Endocinch® system

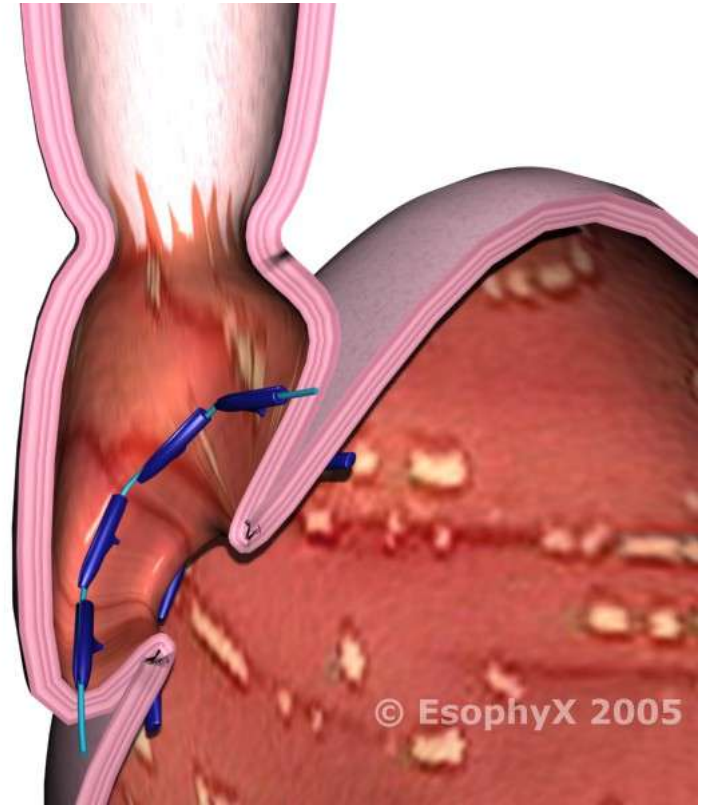
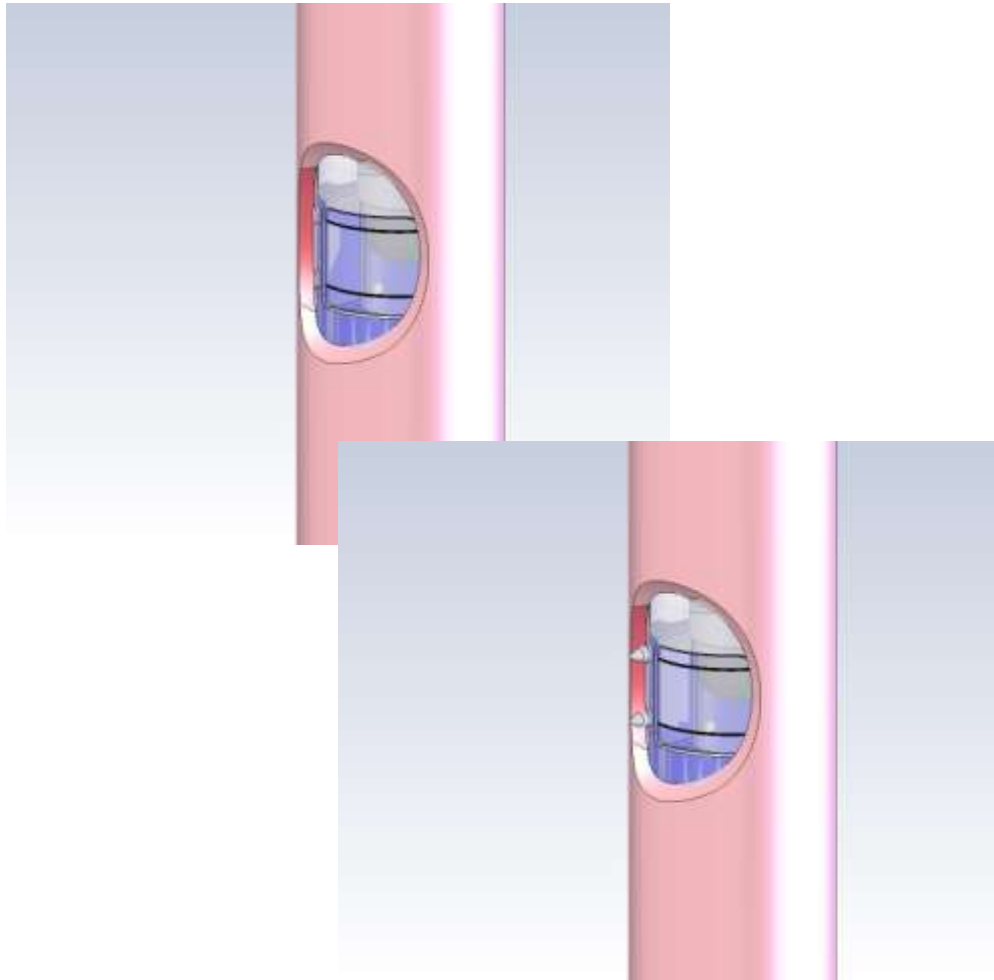


Alternative mechanisms for suturing

STOMAPHYX[®]

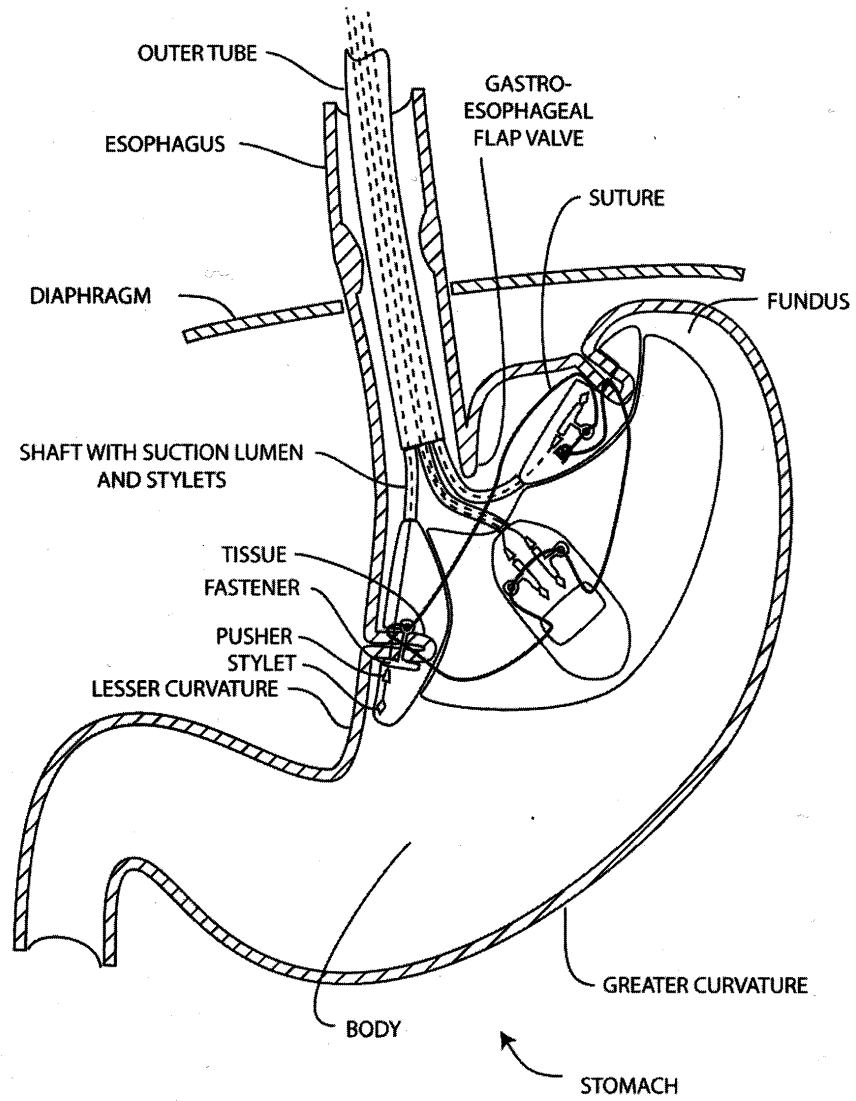
- Deep (total wall?) bites
- Difficult reloading : dealt with (multiple loads)

OBESITY

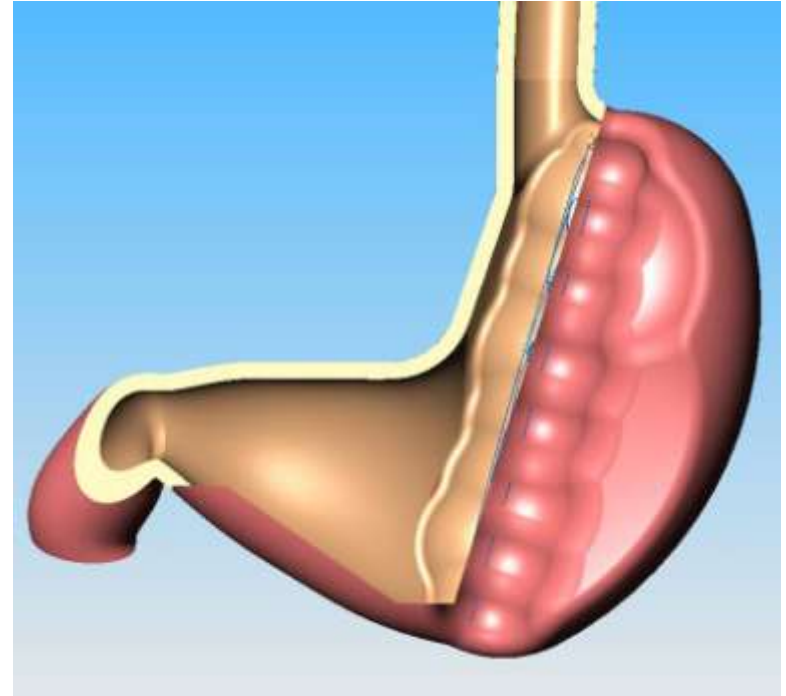
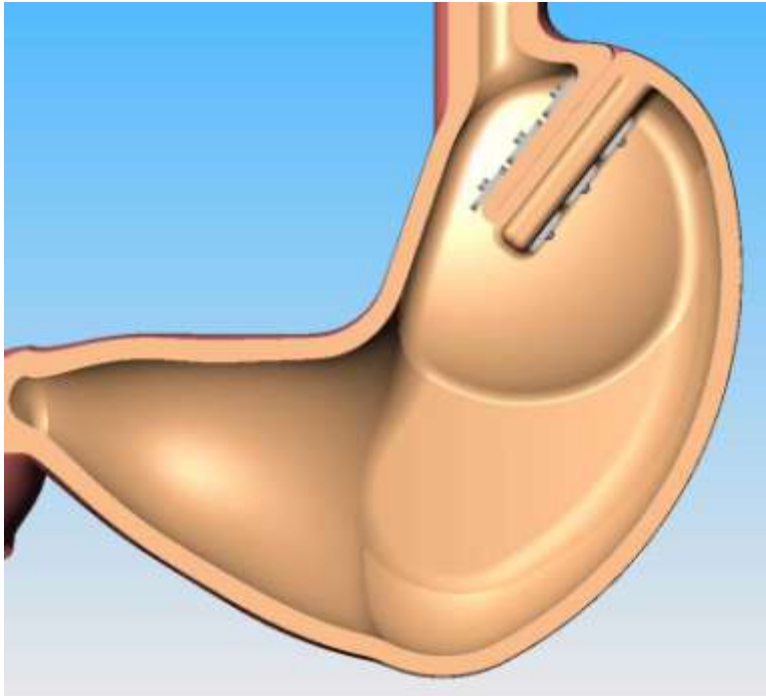


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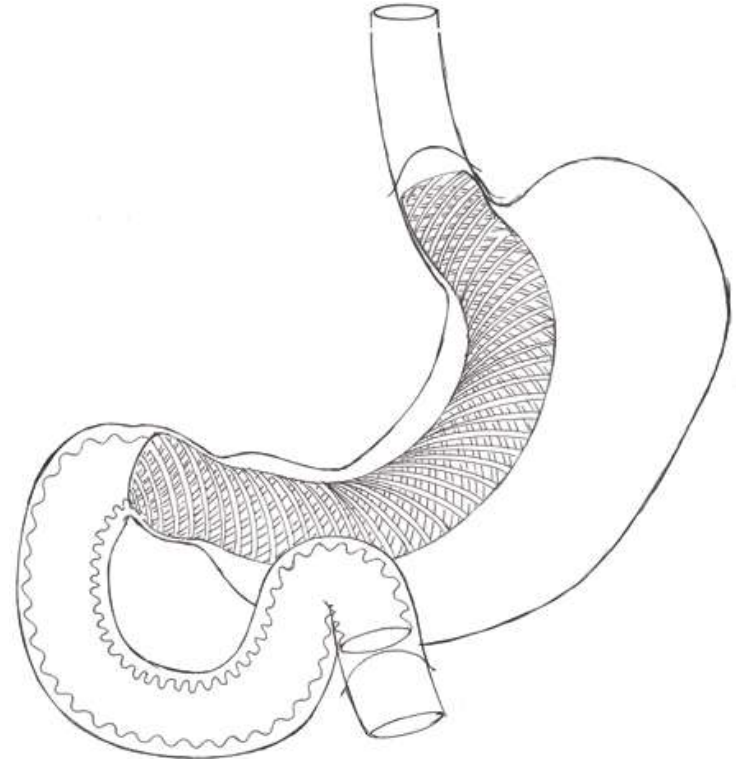
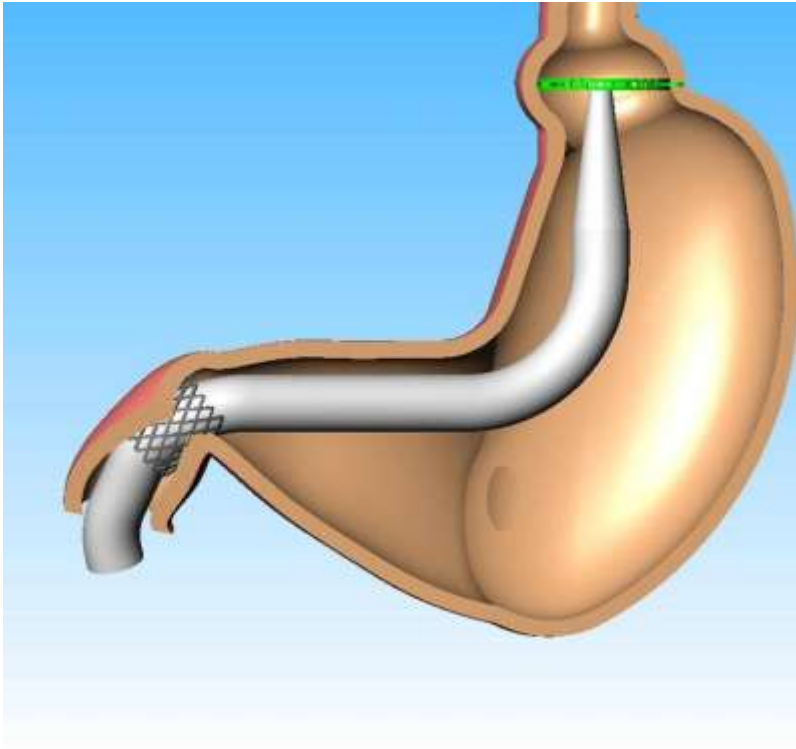




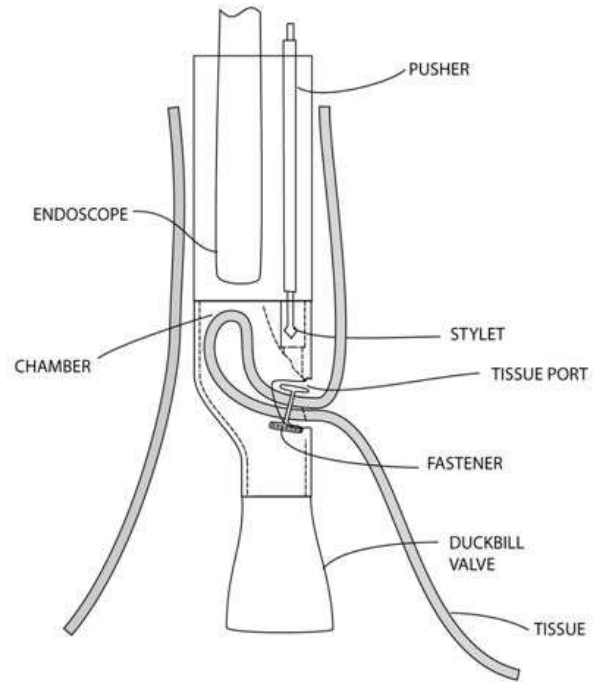
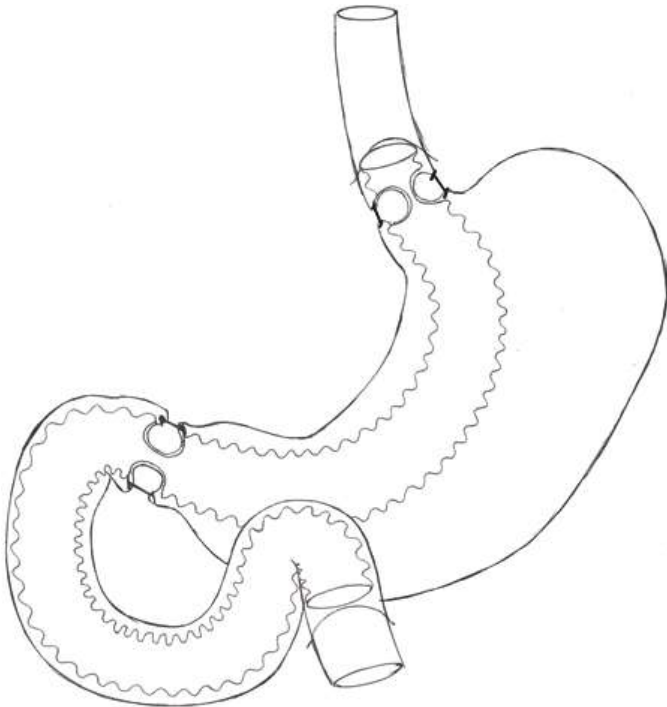
OBESITY: TOGA (Satiety®)



OBESITY: extension of concept of endoduodenal enteral sleeve



OBESITY



CONCLUSIONS

NOTES can reduce hospital stay dramatically

Applications still investigational (clinical trials)

Obesity is logical field of application