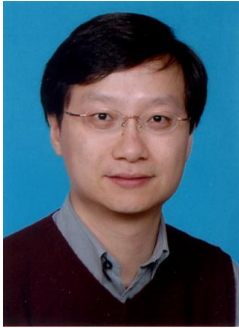


## **12. A New Endoluminal Device for Duodenal Exclusion in Treatment of Type 2 Diabetes Mellitus and Obesity**

This is a collaborative research project between NUS Faculty Staff from the Yong Loo Lin School of Medicine and Faculty of Engineering as well as NUHS Clinicians to develop an endoscopic sleeve for creating a duodenal-jejunal (i.e. small intestine) bypass targeting the treatment of Type 2 diabetes and obesity. Type 2 diabetes has reached a worldwide epidemic fuelled by the increasing trend of obesity. Traditionally, this is a relentless progressive disease with no cure. However, gastric bypass surgery has been proven to be very effective for treating severe obesity and it also helps to cure diabetes in over 80% of patients. Our sleeve covers parts of the small intestine (the duodenum and proximal jejunum), acting as a barrier for the food, effectively creates a foregut bypass without surgery. This device has the potential to become a novel treatment for diabetes and obesity.



**Dr Jimmy So**  
**Associate Professor of Surgery**  
**NUS Yong Loo Lin School of Medicine and**  
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Dr Jimmy So is Associate Professor of Surgery at the NUS Yong Loo Lin School of Medicine and Senior Consultant, University Surgical Cluster, National University Hospital, National University Health System. His special interests are Upper Gastrointestinal Surgery, bariatric surgery and minimally invasive surgery. He received further training in Upper GI surgery in Japan and Hong Kong. He was appointed as visiting consultant in Esophageal and Gastric Surgery at the Royal Infirmary in Edinburgh. He established a multidisciplinary program for Esophageal and Gastric cancers. He also set up a bariatric and obesity surgery program at NUH. He was the Chairman, Organising Committee, 1<sup>st</sup> Asia-Pacific Gastric Cancer Congress in 2006.

His research interest include biomarkers discovery for gastric cancer, gastric carcinogenesis, and novel treatments for obesity and diabetes.