

Supplementary Materials

Impact of obstructive sleep apnea on postoperative outcomes after SADI-S: a retrospective MBSAQIP database analysis with literature review on behalf of TROGSS - The Robotic Global Surgical Society

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Supplementary Table 1. Search terms for the meta-analysis in PubMed, Scopus, Web of Science, and Science Direct databases

Database	Search Strategy
PubMed (<i>n</i> = 9)	<p>("Sleep Apnea, Obstructive"[Mesh] OR "Apneas, Obstructive Sleep"[Title/Abstract] OR "Sleep Apneas, Obstructive"[Title/Abstract] OR "Apnea, Obstructive Sleep"[Title/Abstract] OR "Sleep Apnea, Obstructive"[Title/Abstract] OR "Obstructive Sleep Apneas"[Title/Abstract] OR "Obstructive Sleep Apnea"[Title/Abstract] OR "OSAHS"[Title/Abstract] OR "OSA"[Title/Abstract] OR "Syndrome, Sleep Apnea, Obstructive"[Title/Abstract] OR "Sleep Apnea Syndrome, Obstructive"[Title/Abstract] OR "Sleep Apnea, Obstructive Syndrome"[Title/Abstract] OR "Obstructive Sleep Apnea Syndrome"[Title/Abstract] OR "Sleep Apnea Hypopnea Syndrome"[Title/Abstract] OR "Syndrome, Obstructive Sleep Apnea"[Title/Abstract] OR "Upper Airway Resistance Sleep Apnea Syndrome"[Title/Abstract] OR "Upper Airway Resistance, Sleep Apnea Syndrome"[Title/Abstract]) AND ("one anastomosis duodenal switch"[Title/Abstract] OR "one anastomosis duodenal switch with SG"[Title/Abstract] OR "one anastomosis duodenal switch with sleeve"[Title/Abstract] OR "one anastomosis duodenal switch with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis duodeno ileal bypass with SG"[Title/Abstract] OR "one anastomosis duodeno ileal bypass with sleeve"[Title/Abstract] OR "one anastomosis duodeno ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis Duodeno ileostomy with SG"[Title/Abstract] OR "one anastomosis Duodeno ileostomy with sleeve"[Title/Abstract] OR "one anastomosis Duodeno ileostomy with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis duodenoileal bypass with SG"[Title/Abstract] OR "one anastomosis duodeno-ileal bypass with SG"[Title/Abstract] OR "one anastomosis duodenoileal bypass with sleeve"[Title/Abstract] OR "one anastomosis duodeno-ileal bypass with sleeve"[Title/Abstract] OR "one anastomosis duodenoileal bypass with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis duodeno-ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis Duodenoileostomy with SG"[Title/Abstract] OR "one anastomosis Duodeno-ileostomy with SG"[Title/Abstract] OR "one anastomosis Duodenoileostomy with sleeve"[Title/Abstract] OR "one anastomosis Duodeno-ileostomy with sleeve"[Title/Abstract] OR "one anastomosis Duodenoileostomy with sleeve gastrectomy"[Title/Abstract] OR "one anastomosis Duodeno-ileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis duodenal switch"[Title/Abstract] OR "Single anastomosis duodenal switch with SG"[Title/Abstract] OR "Single anastomosis duodenal switch with sleeve"[Title/Abstract] OR "Single anastomosis duodenal switch with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis duodeno ileal bypass with SG"[Title/Abstract] OR "Single anastomosis duodeno ileal bypass with sleeve"[Title/Abstract] OR "Single anastomosis duodeno ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis Duodeno ileostomy with SG"[Title/Abstract] OR "Single anastomosis Duodeno ileostomy with SG"[Title/Abstract] OR "Single anastomosis Duodeno ileostomy with sleeve"[Title/Abstract] OR "Single anastomosis Duodeno ileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis duodenoileal bypass with SG"[Title/Abstract] OR "Single anastomosis duodeno-ileal bypass with SG"[Title/Abstract] OR "Single anastomosis duodenoileal bypass with sleeve"[Title/Abstract] OR "Single anastomosis duodeno-ileal bypass with sleeve"[Title/Abstract] OR "Single anastomosis duodenoileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis duodeno-ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis Duodenoileostomy with SG"[Title/Abstract] OR "Single anastomosis Duodeno-ileostomy with SG"[Title/Abstract] OR "Single anastomosis Duodenoileostomy with sleeve"[Title/Abstract] OR "Single anastomosis Duodeno-ileostomy with sleeve"[Title/Abstract] OR "Single anastomosis Duodenoileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis Duodeno-ileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis Duodenoileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single anastomosis Duodeno-ileostomy with sleeve gastrectomy"</p>

	<p>sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis duodenal switch"[Title/Abstract] OR "Single-anastomosis duodenal switch with SG"[Title/Abstract] OR "Single-anastomosis duodenal switch with sleeve"[Title/Abstract] OR "Single-anastomosis duodenal switch with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis duodeno ileal bypass with SG"[Title/Abstract] OR "Single-anastomosis duodeno ileal bypass with sleeve"[Title/Abstract] OR "Single-anastomosis duodeno ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis Duodeno ileostomy with SG"[Title/Abstract] OR "Single-anastomosis Duodeno ileostomy with sleeve"[Title/Abstract] OR "Single-anastomosis Duodeno ileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis duodenoileal bypass with SG"[Title/Abstract] OR "Single-anastomosis duodeno-ileal bypass with SG"[Title/Abstract] OR "Single-anastomosis duodenoileal bypass with sleeve"[Title/Abstract] OR "Single-anastomosis duodeno-ileal bypass with sleeve"[Title/Abstract] OR "Single-anastomosis duodenoileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis duodeno-ileal bypass with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis Duodenoileostomy with SG"[Title/Abstract] OR "Single-anastomosis Duodeno-ileostomy with SG"[Title/Abstract] OR "Single-anastomosis Duodenoileostomy with sleeve"[Title/Abstract] OR "Single-anastomosis Duodeno-ileostomy with sleeve"[Title/Abstract] OR "Single-anastomosis Duodenoileostomy with sleeve gastrectomy"[Title/Abstract] OR "Single-anastomosis Duodeno-ileostomy with sleeve gastrectomy"[Title/Abstract] OR "SADI-S"[Title/Abstract])</p>
<p>Web of Science (<i>n</i> = 13)</p>	<p>TS=(Apneas, Obstructive Sleep OR Sleep Apneas, Obstructive OR Apnea, Obstructive Sleep OR Sleep Apnea, Obstructive OR Obstructive Sleep Apneas OR Obstructive Sleep Apnea OR OSAHS OR OSA OR Syndrome, Sleep Apnea, Obstructive OR Sleep Apnea Syndrome, Obstructive OR Sleep Apnea, Obstructive Syndrome OR Obstructive Sleep Apnea Syndrome OR Sleep Apnea Hypopnea Syndrome OR Syndrome, Obstructive Sleep Apnea OR Upper Airway Resistance Sleep Apnea Syndrome OR Syndrome, Upper Airway Resistance, Sleep Apnea) AND TS=(one anastomosis duodenal switch OR one anastomosis duodenal switch with SG OR one anastomosis duodenal switch with sleeve OR one anastomosis duodenal switch with sleeve gastrectomy OR one anastomosis duodeno ileal bypass with SG OR one anastomosis duodeno ileal bypass with sleeve OR one anastomosis duodeno ileal bypass with sleeve gastrectomy OR one anastomosis Duodeno ileostomy with SG OR one anastomosis Duodeno ileostomy with sleeve OR one anastomosis Duodeno ileostomy with sleeve gastrectomy OR one anastomosis duodenoileal bypass with SG OR one anastomosis duodeno-ileal bypass with SG OR one anastomosis duodenoileal bypass with sleeve OR one anastomosis duodeno-ileal bypass with sleeve OR one anastomosis duodenoileal bypass with sleeve gastrectomy OR one anastomosis duodeno-ileal bypass with sleeve gastrectomy OR one anastomosis Duodenoileostomy with SG OR one anastomosis Duodeno-ileostomy with SG OR one anastomosis Duodenoileostomy with sleeve OR one anastomosis Duodeno-ileostomy with sleeve OR one anastomosis Duodenoileostomy with sleeve gastrectomy OR one anastomosis Duodeno-ileostomy with sleeve gastrectomy OR Single anastomosis duodenal switch OR Single anastomosis duodenal switch with SG OR Single anastomosis duodenal switch with sleeve OR Single anastomosis duodenal switch with sleeve gastrectomy OR Single anastomosis duodeno ileal bypass with SG OR Single anastomosis duodeno ileal bypass with sleeve OR Single anastomosis duodeno ileal bypass with sleeve gastrectomy OR Single anastomosis Duodeno ileostomy with SG OR Single anastomosis Duodeno ileostomy with SG OR Single anastomosis Duodeno ileostomy with sleeve OR Single anastomosis Duodeno ileostomy with sleeve gastrectomy OR Single anastomosis duodenoileal bypass with SG OR Single anastomosis duodeno-ileal bypass with SG OR Single anastomosis duodenoileal bypass with sleeve OR Single anastomosis duodeno-ileal bypass with sleeve OR Single anastomosis duodenoileal bypass with sleeve gastrectomy OR Single anastomosis duodeno-ileal bypass with sleeve gastrectomy OR Single anastomosis Duodenoileostomy with SG OR Single anastomosis Duodeno-ileostomy with SG OR Single anastomosis Duodenoileostomy with</p>

	<p>sleeve OR Single anastomosis Duodeno-ileostomy with sleeve OR Single anastomosis Duodenoileostomy with sleeve gastrectomy OR Single anastomosis Duodeno-ileostomy with sleeve gastrectomy OR Single-anastomosis duodenal switch OR Single-anastomosis duodenal switch with SG OR Single-anastomosis duodenal switch with sleeve OR Single-anastomosis duodenal switch with sleeve gastrectomy OR Single-anastomosis duodeno ileal bypass with SG OR Single-anastomosis duodeno ileal bypass with sleeve OR Single-anastomosis duodeno ileal bypass with sleeve gastrectomy OR Single-anastomosis Duodeno ileostomy with SG OR Single-anastomosis Duodeno ileostomy with sleeve OR Single-anastomosis Duodeno ileostomy with sleeve gastrectomy OR Single-anastomosis duodenoileal bypass with SG OR Single-anastomosis duodeno-ileal bypass with SG OR Single-anastomosis duodenoileal bypass with sleeve OR Single-anastomosis duodeno-ileal bypass with sleeve OR Single-anastomosis duodenoileal bypass with sleeve gastrectomy OR Single-anastomosis duodeno-ileal bypass with sleeve gastrectomy OR Single-anastomosis Duodenoileostomy with SG OR Single-anastomosis Duodeno-ileostomy with SG OR Single-anastomosis Duodenoileostomy with sleeve OR Single-anastomosis Duodeno-ileostomy with sleeve OR Single-anastomosis Duodenoileostomy with sleeve gastrectomy OR Single-anastomosis Duodeno-ileostomy with sleeve gastrectomy OR SADI-S)</p>
<p>Scopus (<i>n</i> = 10)</p>	<p>TITLE-ABS-KEY ("Apneas, Obstructive Sleep" OR "Sleep Apneas, Obstructive" OR "Apnea, Obstructive Sleep" OR "Sleep Apnea, Obstructive" OR "Obstructive Sleep Apneas" OR "Obstructive Sleep Apnea" OR "OSAHS" OR "OSA" OR "Syndrome, Sleep Apnea, Obstructive" OR "Sleep Apnea Syndrome, Obstructive" OR "Sleep Apnea, Obstructive Syndrome" OR "Obstructive Sleep Apnea Syndrome" OR "Sleep Apnea Hypopnea Syndrome" OR "Syndrome, Obstructive Sleep Apnea" OR "Upper Airway Resistance Sleep Apnea Syndrome" OR "Syndrome, Upper Airway Resistance, Sleep Apnea") AND TITLE-ABS-KEY ("one anastomosis duodenal switch" OR "one anastomosis duodenal switch with SG" OR "one anastomosis duodenal switch with sleeve" OR "one anastomosis duodenal switch with sleeve gastrectomy" OR "one anastomosis duodeno ileal bypass with SG" OR "one anastomosis duodeno ileal bypass with sleeve" OR "one anastomosis duodeno ileal bypass with sleeve gastrectomy" OR "one anastomosis Duodeno ileostomy with SG" OR "one anastomosis Duodeno ileostomy with sleeve" OR "one anastomosis Duodeno ileostomy with sleeve gastrectomy" OR "one anastomosis duodenoileal bypass with SG" OR "one anastomosis duodeno-ileal bypass with SG" OR "one anastomosis duodenoileal bypass with sleeve" OR "one anastomosis duodeno-ileal bypass with sleeve" OR "one anastomosis duodenoileal bypass with sleeve gastrectomy" OR "one anastomosis duodeno-ileal bypass with sleeve gastrectomy" OR "one anastomosis Duodenoileostomy with SG" OR "one anastomosis Duodeno-ileostomy with SG" OR "one anastomosis Duodeno-ileostomy with sleeve" OR "one anastomosis Duodeno-ileostomy with sleeve" OR "one anastomosis Duodenoileostomy with sleeve gastrectomy" OR "one anastomosis Duodeno-ileostomy with sleeve gastrectomy" OR "Single anastomosis duodenal switch" OR "Single anastomosis duodenal switch with SG" OR "Single anastomosis duodenal switch with sleeve" OR "Single anastomosis duodenal switch with sleeve gastrectomy" OR "Single anastomosis duodeno ileal bypass with SG" OR "Single anastomosis duodeno ileal bypass with sleeve" OR "Single anastomosis duodeno ileal bypass with sleeve gastrectomy" OR "Single anastomosis Duodeno ileostomy with SG" OR "Single anastomosis Duodeno ileostomy with SG" OR "Single anastomosis Duodeno ileostomy with sleeve" OR "Single anastomosis Duodeno ileostomy with sleeve gastrectomy" OR "Single anastomosis duodenoileal bypass with SG" OR "Single anastomosis duodeno-ileal bypass with SG" OR "Single anastomosis duodenoileal bypass with sleeve" OR "Single anastomosis duodeno-ileal bypass with sleeve" OR "Single anastomosis duodenoileal bypass with sleeve gastrectomy" OR "Single anastomosis duodeno-ileal bypass with sleeve gastrectomy" OR "Single anastomosis Duodenoileostomy with SG" OR "Single anastomosis Duodeno-ileostomy with SG" OR "Single anastomosis Duodenoileostomy with sleeve" OR "Single anastomosis Duodeno-ileostomy with sleeve" OR "Single anastomosis Duodenoileostomy with sleeve"</p>

	<p>gastrectomy" OR "Single anastomosis Duodeno-ileostomy with sleeve gastrectomy" OR "Single-anastomosis duodenal switch" OR "Single-anastomosis duodenal switch with SG" OR "Single-anastomosis duodenal switch with sleeve" OR "Single-anastomosis duodenal switch with sleeve gastrectomy" OR "Single-anastomosis duodeno ileal bypass with SG" OR "Single-anastomosis duodeno ileal bypass with sleeve" OR "Single-anastomosis duodeno ileal bypass with sleeve gastrectomy" OR "Single-anastomosis Duodeno ileostomy with SG" OR "Single-anastomosis Duodeno ileostomy with sleeve" OR "Single-anastomosis Duodeno ileostomy with sleeve gastrectomy" OR "Single-anastomosis duodenoileal bypass with SG" OR "Single-anastomosis duodeno-ileal bypass with SG" OR "Single-anastomosis duodenoileal bypass with sleeve" OR "Single-anastomosis duodeno-ileal bypass with sleeve" OR "Single-anastomosis duodenoileal bypass with sleeve gastrectomy" OR "Single-anastomosis duodeno-ileal bypass with sleeve gastrectomy" OR "Single-anastomosis Duodenoileostomy with SG" OR "Single-anastomosis Duodeno-ileostomy with SG" OR "Single-anastomosis Duodenoileostomy with sleeve" OR "Single-anastomosis Duodeno-ileostomy with sleeve" OR "Single-anastomosis Duodenoileostomy with sleeve gastrectomy" OR "Single-anastomosis Duodeno-ileostomy with sleeve gastrectomy" OR "SADI-S")</p>
<p>Science Direct (n = 0)</p>	<p>Title, abstract, keywords: (Obstructive Sleep Apnea) AND (Single anastomosis duodeno ileal bypass with sleeve gastrectomy OR SADI-S)</p>