Routine Preoperative Barium Swallow to detect Hiatus Hernia in Bariatric Surgery Patients: Is it Worthwhile?

¹North Queensland Obesity Surgery Centre, Mater Hospital, Townsville, Australia John Avramovic¹, Laura Craig¹, Sam Baker¹, Christopher Aubrey¹

Routine Preoperative Barium Swallow to detect Hiatus Hernia in Bariatric Surgery Patients: Is it Worthwhile?PurposeTo determine if routine preoperative barium swallow before laparoscopic bariatric surgery can predict those patients who require crural repair for hiatus hernia. Method100 consecutive patients undergoing bariatric surgery underwent preoperative barium swallow to detect hiatus hernia. The radiological results were compared to the operative findings. Results98 patients underwent a complete radiological study. 17 patients were reported to have a hiatus hernia radiologically. 37 patients were found to have a hiatus hernia at operation, and had a sutured anterior crural repair as per our unit protocol. Finding **Operative** Hiatus hernia No Hiatus HerniaRadiological Hiatus Hernia _ 7 10 Finding No Hiatus Hernia

30 51 The true positive rate was 7%. The calculated sensitivity

for barium swallow in detecting a hiatus hernia prior to surgery was 21%. A positive barium swallow had a 41% probability of detecting a hiatus hernia subsequently confirmed at surgery.ConclusionPreoperative barium swallow in morbidly obese patients undergoing laparoscopic bariatric surgery was poor at predicting the presence of hiatus hernia. Routine barium swallow prior to bariatric surgery for the detection of hiatus hernia was unreliable and not warranted.

