

# Staple Usage Comparison Between Suction Calibration System and Rubber Bougie in LSG

**Elizabeth Dovec, MD**

Medical Director

GBMC Comprehensive Obesity Management Program

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Boehringer Laboratories, LLC • 300 Thoms Dr., • Phoenixville, PA 19460  
1-800-642-4945 • [www.boehringerlabs.com](http://www.boehringerlabs.com)

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*Clinical Education Presented By:*

**BOEHRINGER**®



**ELIZABETH DOVEC MD**

MEDICAL DIRECTOR, GBMC COMPREHENSIVE OBESITY MANAGEMENT PROGRAM

**GBMC**

## STAPLE USAGE COMPARISON BETWEEN SUCTION CALIBRATION SYSTEM AND RUBBER BOUGIE IN LSG

### BACKGROUND

Laparoscopic sleeve gastrectomy (LSG) procedures are growing in popularity which makes it important for institutions to be as efficient as possible. SCS devices have been shown to reduce cork-screwing during the stapling process in LSG procedures which would also mean a shorter staple line. This shorter staple line may translate to a decrease in staple usage.

### OBJECTIVE

To compare the staple usage between a suction calibration system (SCS) and a rubber bougie (RB).

### METHODS

Surgical case records were retrospectively examined directly before and after the switch from using a RB to a SCS to determine the number of staples used.

### RESULTS

There were 51 patients in both the RB and SCS groups (n=102). The mean number of staples used for the RB and SCS group respectively were 5.40 and 5.07 (p=0.02). There was no significant difference in mean between the RB and SCS groups in age (47.4, 45.0, p=0.27), female/male ratio (0.86, 0.84, p=0.78), or BMI (41.8, 42.7, p=0.52).

### CONCLUSION

The data suggests a savings of 0.33 staple loads per case over this period due to switching to a SCS. That translates in to saving a staple approximately every third case. With bariatric staple loads costing upwards of over \$400 per staple, this could mean significant savings for institutions who implement the use of a SCS in their LSG procedures.

