

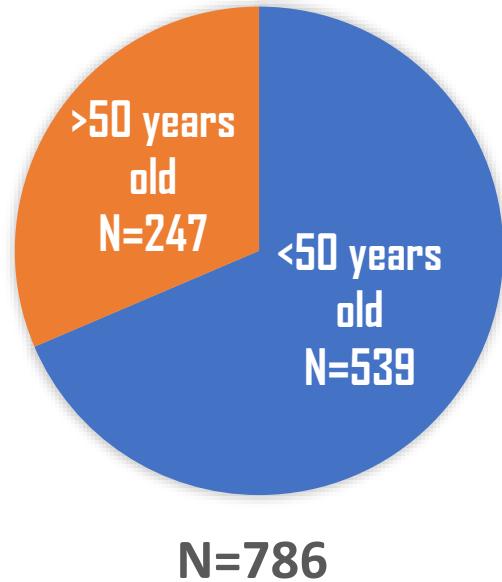
Assessment of the effectiveness of laparoscopic sleeve gastrectomy in treating metabolic syndrome in patients over 50 years old

**Aleksander Lukaszewicz, Paulina Gluszynska, Inna Diemieszczyk, Piotr Golaszewski, Jan Chilmonczyk,
Jerzy Lukaszewicz, Hady Razak Hady**

Medical University of Bialystok, 1st Clinical Dept. of General and Endocrine Surgery, Bialystok, Poland



Test groups

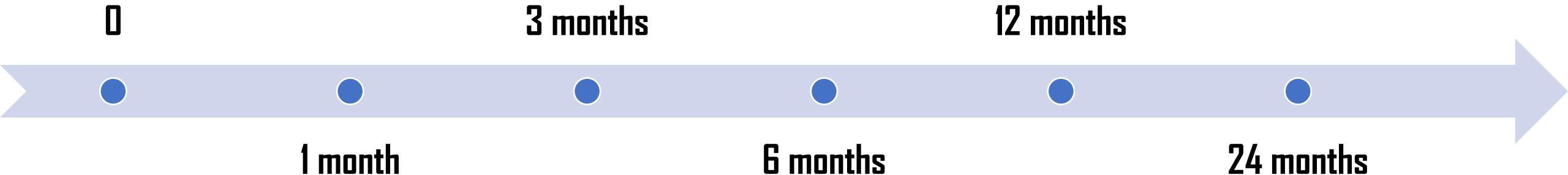


01.2010 – 01.2023

	<50	>50	Total
Men	242 (30,8%)	112(14,2%)	354(45,2%)
Women	296(37,7%)	135(17,2%)	431(54,8%)
Mean age	37,6	56,9	43,7
Mean preoperative BMI	47,7	47,01	47,5
Mean preoperative weight	142,8 kg	134,8 kg	140,3 kg
Patients with hypertension	164	157	321
Patients with t.2 diabetes mellitus	55	70	125

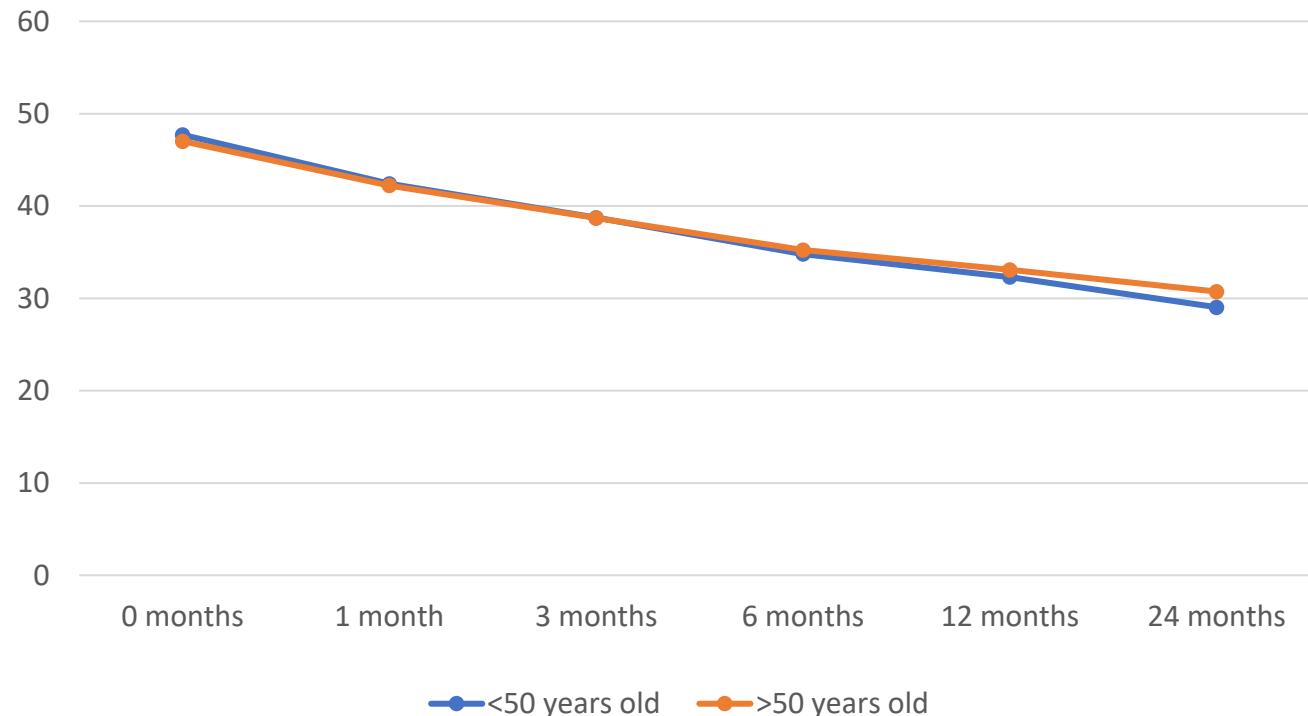
Tested parameters

- BMI
- Weight loss
- Glycemia
- HbA1c
- Changes in antihypertensive treatment
- Total cholesterol, HDL, LDL and triglycerides concentrations



Body Mass Index

Mean BMI

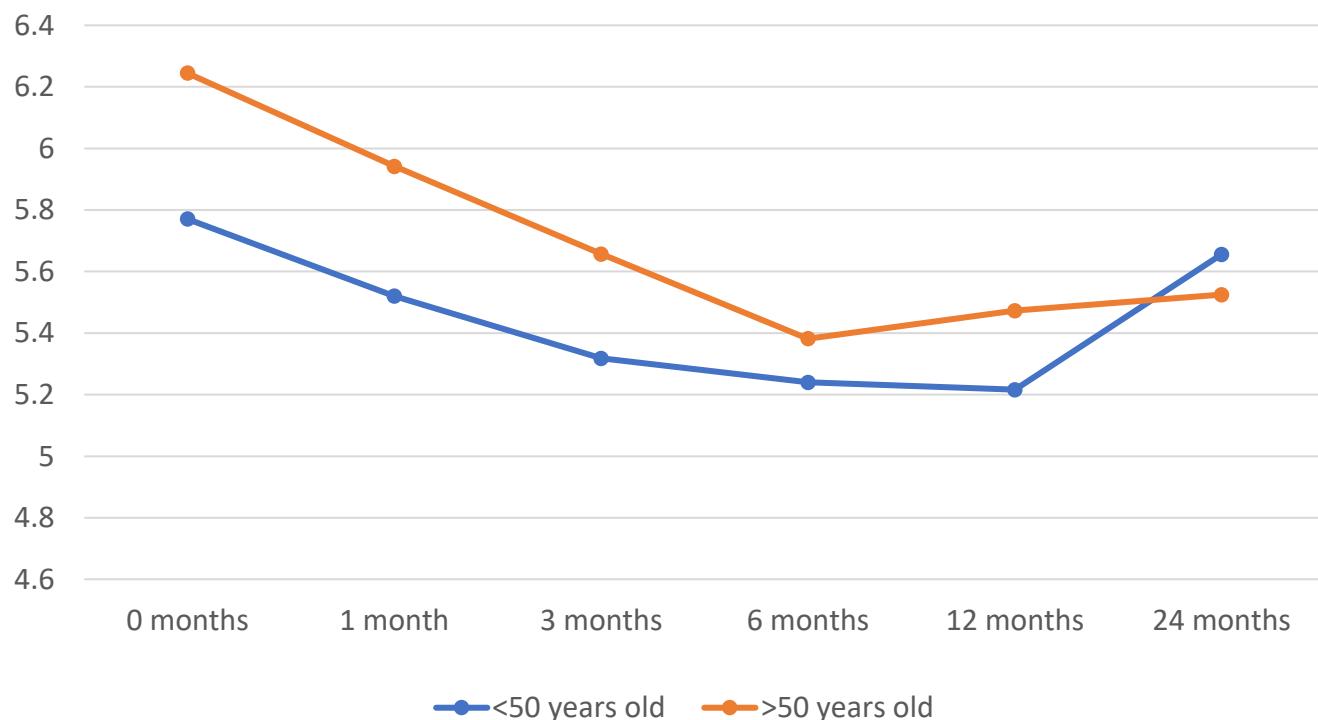


	<50 years old	>50 years old	P value
0 months	47,71	47,01	>0,9999
1 month	42,4	42,22	>0,9999
3 months	38,73	38,69	>0,9999
6 months	34,79	35,23	>0,9999
12 months	32,31	33,09	>0,9999
24 months	29,03	30,73	>0,9999

N=786

Glycated hemoglobin

Mean HbA1C

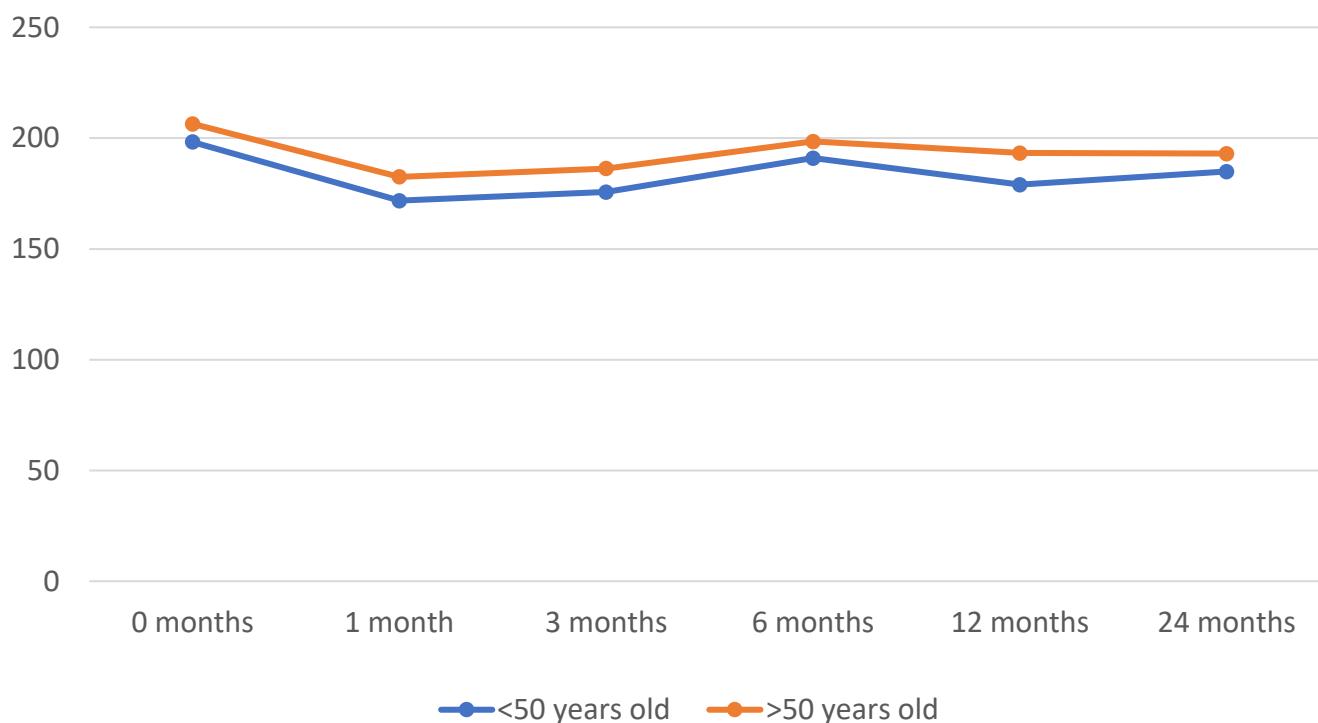


	<50 years old	>50 years old	P value
0 months	5,771	6,245	<0,0001
1 month	5,52	5,942	<0,0001
3 months	5,318	5,657	<0,0001
6 months	5,24	5,382	0,0099
12 months	5,216	5,473	0,0008
24 months	5,656	5,525	>0,9999

N=786

Total Cholesterol Concentration

Mean total cholesterol concentrations

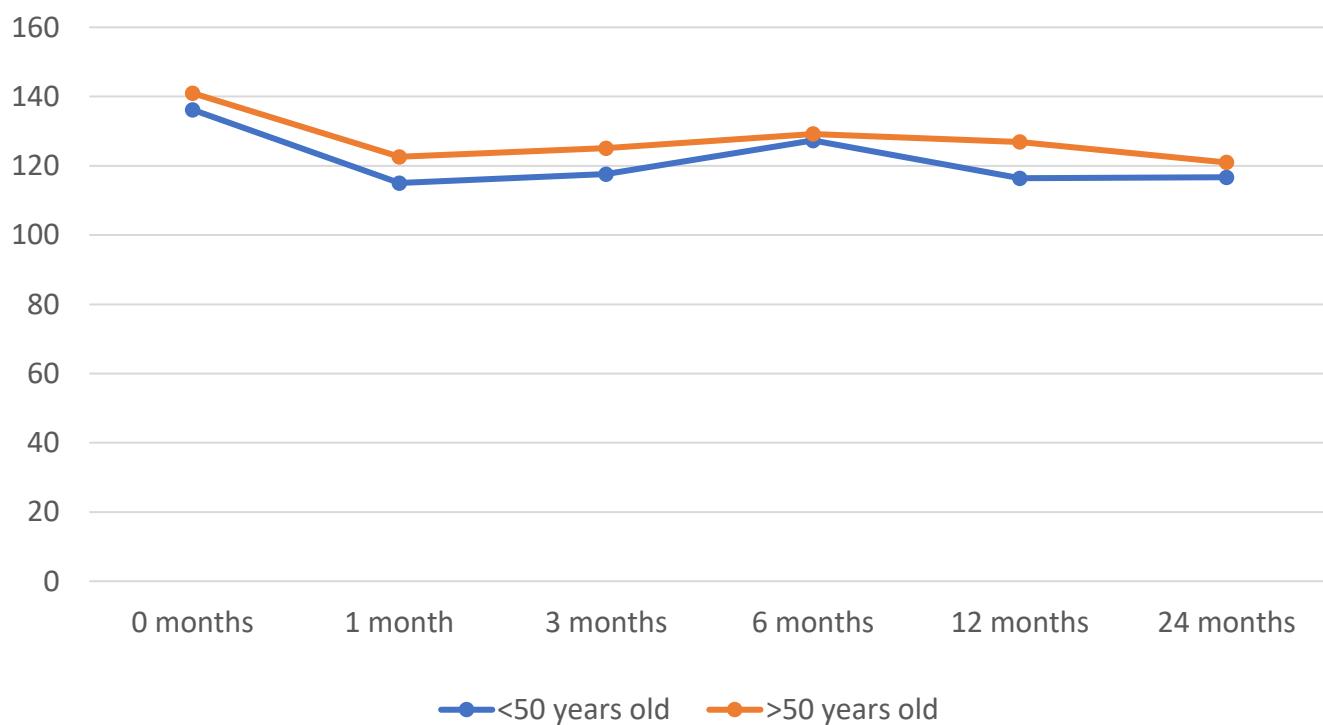


	<50 years old	>50 years old	P value
0 months	198,3	206,4	>0,9999
1 month	171,8	182,5	>0,9999
3 months	175,7	186,3	0,6697
6 months	191,0	198,5	>0,9999
12 months	179,0	193,3	0,0340
24 months	184,9	193,0	>0,9999

N=786

LDL

Mean LDL concentrations

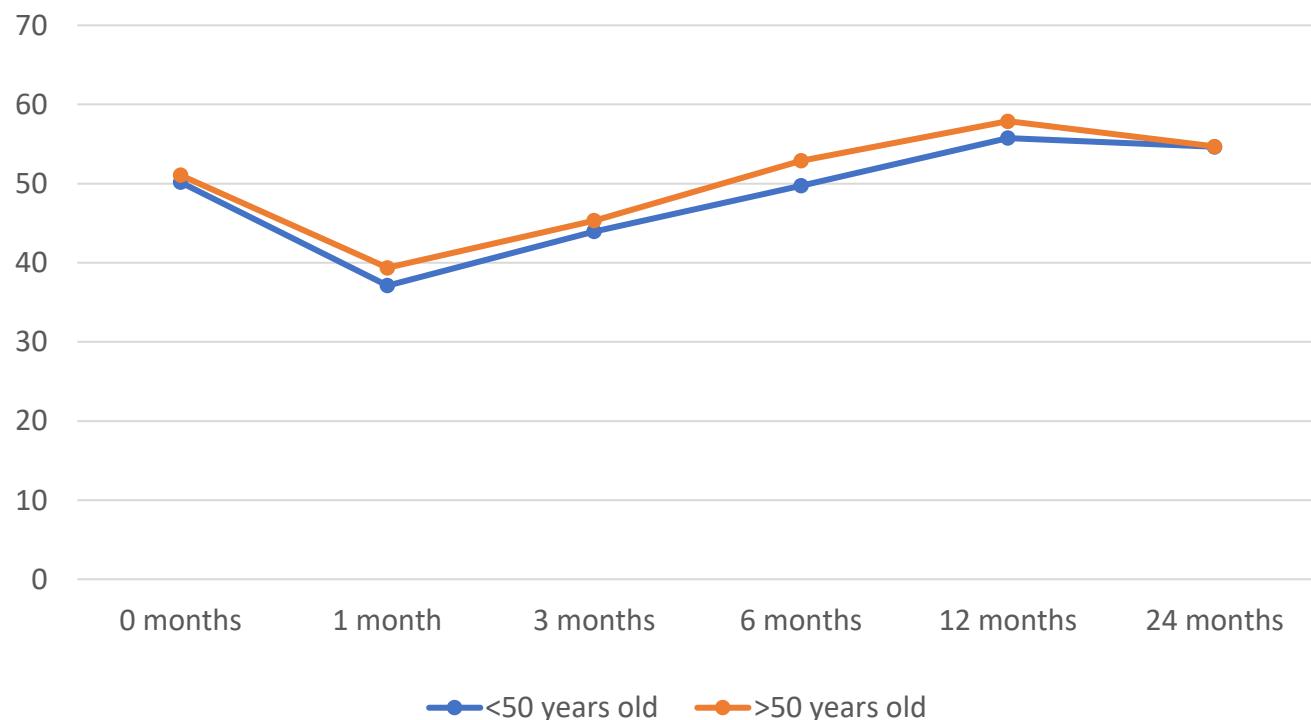


	<50 years old	>50 years old	P value
0 months	136,2	141,0	>0,9999
1 month	115,0	122,6	>0,9999
3 months	117,6	125,1	>0,9999
6 months	127,33	129,2	>0,9999
12 months	116,4	126,9	0,1857
24 months	116,7	121,0	>0,9999

N=786

HDL

Mean HDL concentrations

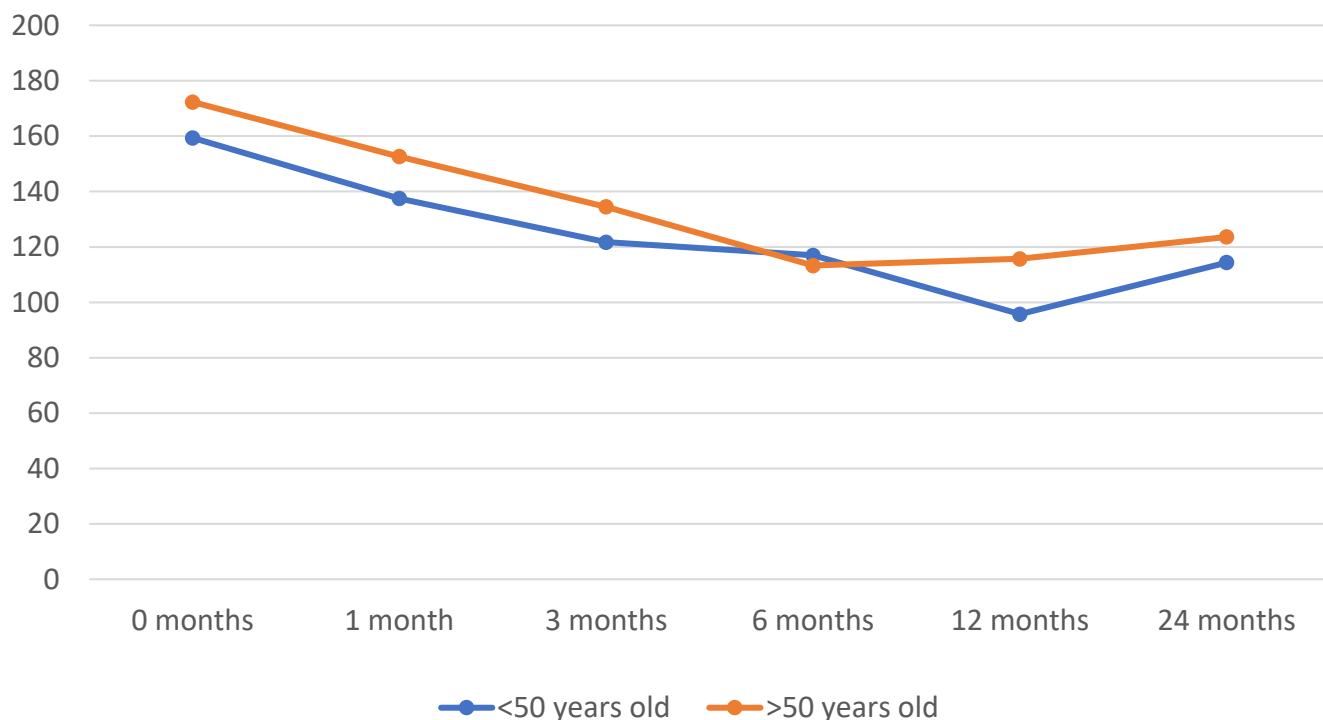


	<50 years old	>50 years old	P value
0 months	50,19	51,07	>0,9999
1 month	37,12	39,36	0,8402
3 months	43,96	45,32	>0,9999
6 months	49,73	52,89	>0,9999
12 months	55,76	57,88	>0,9999
24 months	54,65	54,69	>0,9999

N=786

Triglycerides

Mean triglycerides concentrations



	<50 years old	>50 years old	P value
0 months	159,4	172,3	0,8031
1 month	137,5	152,6	0,2302
3 months	121,7	134,5	0,2616
6 months	117,0	113,3	>0,9999
12 months	95,72	115,7	0,0182
24 months	114,4	123,6	>0,9999

N=786

Reduction or complete discontinuation in antihypertensive treatment

Under 50 years old	Over 50 years old
36/164 (22%)	25/157 (15,9%)

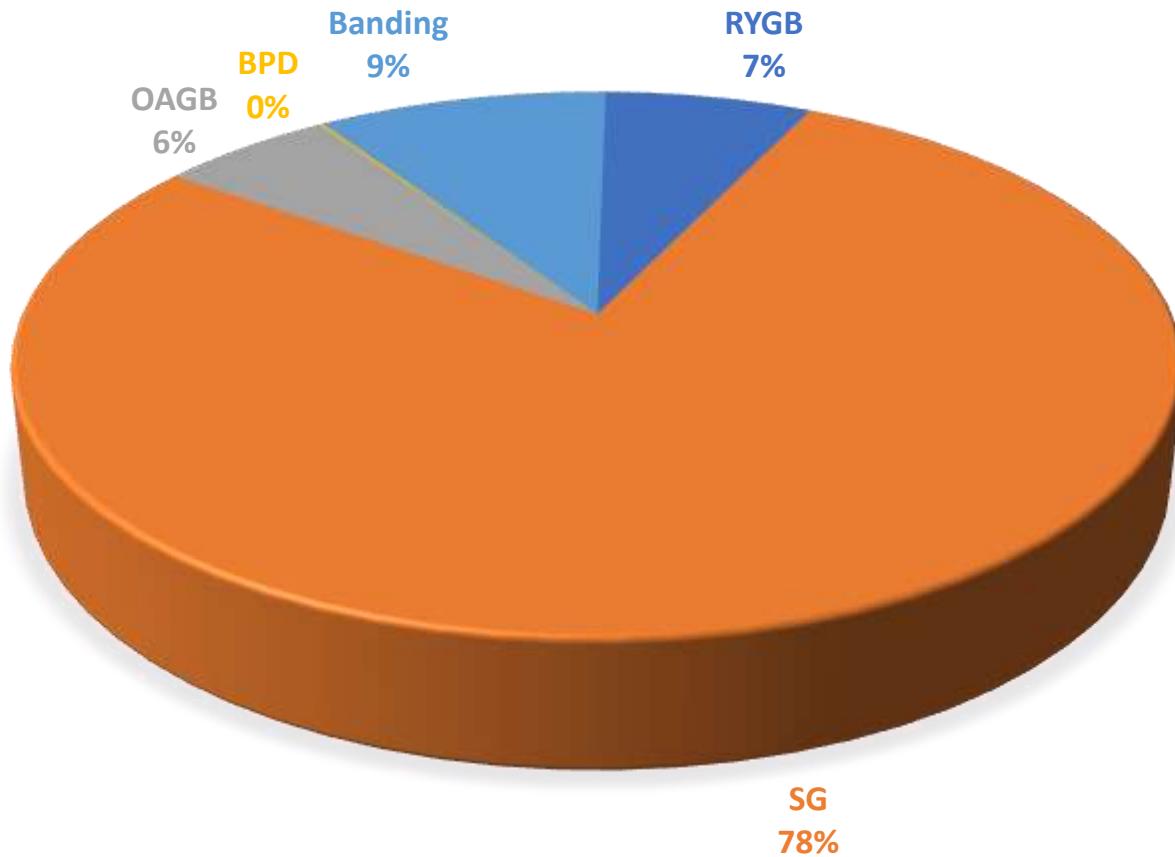
Reduction or complete discontinuation in antidiabetic treatment

Under 50 years old	Over 50 years old
19/55 (34,5%)	20/70 (28,5%)

Conclusion

Laparoscopic sleeve gastrectomy proves effective in treating components of metabolic syndrome irrespective of age

CASE MIX DISCLOSURE



Thank you

I have no potential conflict of interest to report

