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Postoperative outcomes after outpatient cancer procedures for super morbidly obese patients at a freestanding surgery center

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Carefully selected higher risk patients - including morbidly obese patients – now scheduled for ambulatory procedures
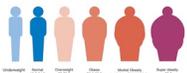
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Memorial Sloan Kettering (MSK) Cancer Center sites and MSK Monmouth relative to the main MSK hospital

MSK Monmouth

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- Rates of postoperative complications are comparable for:
  - nonobese and obese patients[1]
  - morbidly (BMI >40 and <50 kg/m²) and super morbidly obese (BMI ≥50 kg/m²)[2]

- Continuous evaluation of safety outcomes is key!

- We **describe the characteristics and postoperative outcomes for super morbidly obese patients** who underwent procedures at the MSK Monmouth

1. Vertosick EA, et al. J Clin Anesth. 2019 Dec;58:111-116.
2. Hajmohamed S, et al. Anesth Analg. 2021 Dec 1;133(6):1366-1373.

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Methods

- Retrospective study approved by the IRB

- MSK Monmouth: mostly minor outpatient surgeries and interventional radiology procedures

- Between 1/2/2017 and 1/10/2023, **94 (0.5%)** cases at MSK Monmouth included super morbidly obese patients (BMI >50 kg/m²)

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Patients and Procedures

Table 1. Patient characteristics by type of procedure type. Data are presented as median (quartiles) and frequency (%).

Characteristic	MSK Monmouth Outpatient (N=55)
Age	59 (51, 64)
Female	43 (78%)
Body Mass Index (kg/m²)	52 (51, 55)
ASA	
2	3 (5%)
3	51 (93%)
4	1 (2%)
Obstructive Sleep Apnea*	28 (51%)
Repeat procedures**	23 (42%)

*Include diagnosed Obstructive Sleep Apnea as well as patients at risk with STOP-BANG for the condition; **Repeat procedures at the listed MSK location only; other MSK locations repeat visits not included.

Table 2. Procedure characteristics. Data are presented as median (quartiles) and frequency (%).

Characteristic	MSK Monmouth Outpatient (N=94)
Procedure Duration (minutes)	17 (12, 24)
Anesthesia Duration (minutes)	45 (36, 54)
Monitored Anesthesia Care	50 (53%)
Conversion to General Anesthesia	2 (2%)
Length of Stay in PACU (hours)	1.2 (1.0, 1.6)

4.2 hours max PACU stay

Figure 1. Distribution of services for super morbidly obese patients at MSK Monmouth 1/2/2017-1/10/2023, N = 94

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Outcomes and Conclusions

Table 3. Adverse Postoperative Outcomes by type of procedure type. Data are presented as n (%) for each procedure.

Characteristic	MSK Monmouth Outpatient (N=94)
Same-Day Cancellation	0 (0%)
Urgent care visit within 30 days (≥1)*	6 (6%)
Postoperative Adverse Event	1 (1%)
Transfer	0 (0%)
Unanticipated 30-day hospital admission (≥1)**	1 (1%)

*Two cases were followed by multiple visits, 2 and 5 each. Four visits were associated with the same patient. **One case was followed by 3 hospital admissions.

- No adverse events attributable to anesthesia

- No 30-day mortalities

- Postoperative adverse outcomes for super morbidly obese comparable to overall rates

Careful evaluation, planning and perioperative team collaboration allow super morbidly obese patients to receive outpatient cancer procedures close to home at a freestanding surgery center

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