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Background & Aim:

- **ICIs pre-dispose to immune related adverse** events, immune related diarrhea and colitis (IMDC) being the most frequently encountered.
- We aimed to evaluate quality outcomes of cancer inpatients in regards to IMDC and cancer after implementation of an institutional practice change with a standardized algorithm by a dedicated toxicity GI service

Study Design & Methods:

- **Retrospective**, single center study
- Standardized algorithm and practice change instituted in 2018
- Comparative analysis of management and outcomes of inpatients with IMDC 2017 and 2019

Table 1: Baseline characteristics of sample (N=126)

Characteristic	Number of patients (%)
Median age at IMDC (years) IQR	62 (55.25-70)
Male gender	81 (64.3)
Caucasian ethnicity	108 (85.7)
Median Charlson Comorbidity Index at IMDC (IQR)	4.75 (7.25-12)
Cancer type	
Melanoma Genitourinary cancer Lung cancer Others	29 (23) 45 (35.7) 11 (8.7) 38 (30.2)
Cancer stage Stage III Stage IV	16 (12.7) 104 (82.5)

Focused Expertise of IOTox GI Service Can Improve Quality of Clinical Care and Outcome of Immune Mediated Diarrhea/Colitis Among Inpatients: A Retrospective Review and Quality Improvement Project

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Figure 3: Outcome of GI follow up on Overall survival (OS)





Results:

Demographic and oncologic profile of sample: A majority were white males (81%) with a median age of 62 years. Genitourinary cancer (36%) was the most frequent cancer type. (Table 1)

Colitis practice change: (Figure 1)

2019 group had significantly higher rates of

- a) GI consultation
- **Endoscopic evaluation** b)
- Selective immunosuppression use and **C**)
- Post discharge GI follow up d)

Colitis related outcomes: (Figure 2)

2019 group had significantly lower

- days to clinical remission a)
- hospital re-admissions and b)
- recurrence of IMDC C)

Cancer outcomes: (Figure 3) OS was higher for at least 2 years in 2019 group

Conclusion

Early evaluation and management by an expert **IoTox specialty service** with implementation of a regimented management algorithm improves the quality of care and outcome of complex cancer patients with IMDC