

Assessing the impact of decision aid use on post prostatectomy patient reported outcomes

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INTRODUCTION AND OBJECTIVE: The association between decision aids (DA) use and clinically-meaningful patient reported outcomes is not well established. We evaluated whether completing a DA, Personalized Patient Profile – Prostate (P3P), prior to prostatectomy, affects self-reported bother associated with post-prostatectomy urinary incontinence (UI) and erectile dysfunction (ED).

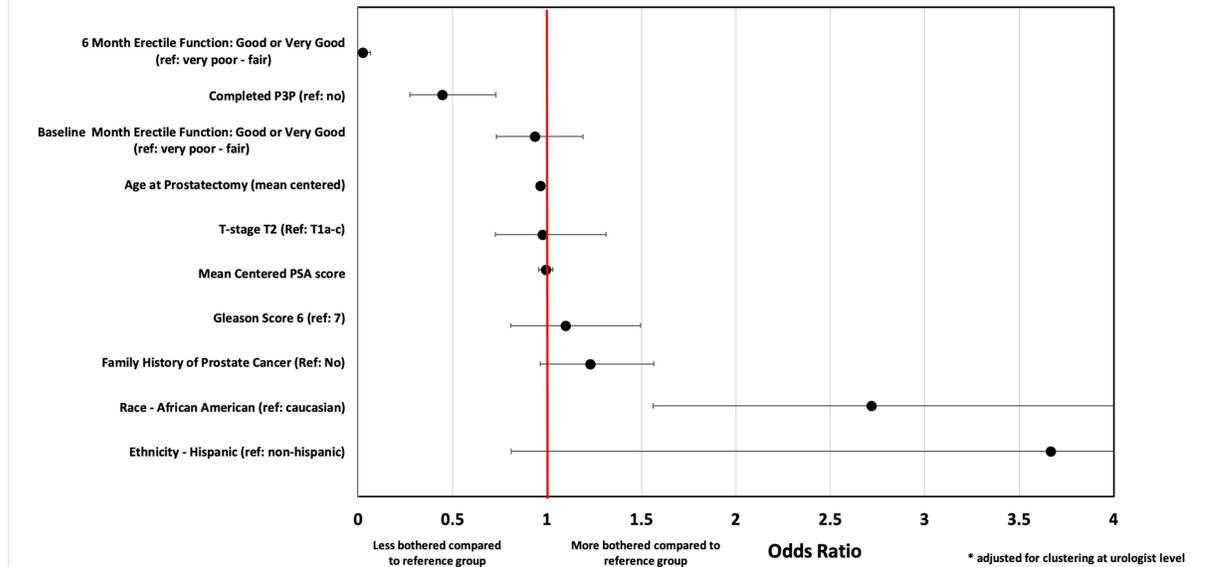
METHODS: Patients with newly diagnosed clinically localized, very low to intermediate risk prostate cancer within the Michigan Urological Surgery Improvement Collaborate (MUSIC) between 2018-20 who elected prostatectomy treatment were included. The primary outcomes were patient-reported bother from UI and ED, measured by the Expanded Prostate Cancer Index Composite (EPIC). We used multivariable logistic regression to estimate the association between P3P use and bother from post prostatectomy ED and UI, adjusting for age, race, ethnicity, family history of prostate cancer, Gleason score, stage, PSA, urologist and ED and UI before surgery and at follow-up.

RESULTS: Among 3651 men, the mean age was 63 (SD 7), the majority were Caucasian (74%) with Gleason 7 (84%), T1a-c disease (80%) and median PSA of 6 (IQR 5, 8). At baseline, 6.3% completed P3P. At 3, 6, and 12 months postoperatively, EPIC scores were available for 51%, 39% and 23% of P3P completers and 51%, 43% and 28% non-completers. Men who completed P3P reported less bother from the same levels of ED at 6 months vs non-completers (aOR 0.45 [95% CI 0.27-0.73]). (Fig 1) At 12 months, the effect of P3P was similar but not significant (aOR 0.53 [95% CI 0.28-1.00]). (Fig 2) In our model, erectile function at follow-up, race and ethnicity also impact bother from ED. Men who completed P3P did not have different bother from the same levels of UI at 3 or 6 months, compared to non-completers (3 month: aOR 0.55 [95% CI 0.26-1.16]; 6 month; aOR 1.09 [95% CI 0.40-2.94]).

CONCLUSIONS: Men who used a DA experienced decreased bother from post prostatectomy ED compared to non-completers. However, P3P completion did not impact bother from post prostatectomy UI.

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Figure 1: Factors that Impact Bother from Post Prostatectomy Erectile Dysfunction (6 months postoperatively)



**Figure 2: Factors that Impact Bother from Post Prostatectomy Erectile Dysfunction
(12 months postoperatively)**

