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Validation of a 90-Day Erection Fullness Tool to Predict Erectile Function Recovery following Robot-Assisted Radical Prostatectomy

Erectile function following radical prostatectomy can take up to 2 years to recover. With no metrics validated to predict recovery, early risk stratification and pre-emptive rehabilitation is unable to be considered.



5 high-volume robotic surgeons



Recovery tracked in 3 tertiles through 2 years post-op



At 90-days, men with 0-24% fullness were **70% more likely** to be impotent at 2yrs.



297 patients
undergoing radical
prostatectomy



Split 2:1 training to validation datasets for model creation



Sensitivity = 97% Specificity = 87%



90-day % erection fullness tool



ROC curve & logistic regression analysis to predict **2-year recovery**

This early, 90-day metric allows surgeons to identify at-risk patients most likely to benefit from early rehabilitation.

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