

From: [Faculty Description of Research Project](#)
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Project title:

Renal Failure as a consequence of BPH (benign prostatic hyperplasia)

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Research Project Description

Hypothesis:

BPH has a high prevalence in males over the age of 65, however, when severe and untreated it can cause obstruction of the urinary tract and urinary retention. In a selected group of males with BPH and urinary retention, this condition can be associated with upper tract obstruction, hydronephrosis and acute kidney injury. Rarely, this will progress to irreversible renal failure requiring hemodialysis. There are no current studied risk factors known that predispose patients to progress to AKI and/or renal failure. The objective of our project is to elucidate the factors that are associated and perhaps increase the odds ratio of males with BPH progressing to renal failure, acute or chronic.

Methods: An IRB will be written for this project and chart review of study subjects and age matched controls will be included in the study. Uni variate and multivariate logistic regression analysis of variables will be done to find independent risk factors associated with acute and/or chronic renal failure secondary to upper tract obstruction due to BPH.

Medical Student role: To perform chart review of subjects and controls and include variables in a data base for analysis.

Funding: I2B2 data used for initial analysis is available at no cost. A voucher from CTSI may be required to aid with the project but not necessary.

Conclusion: At the end of this project, risk factors associated with acute and/or chronic renal failure secondary to upper tract obstruction secondary to BPH will be identified. This study may find variables that can be used by physicians when designing treatment for BPH patients.