

Autonomic and Renal Contributions to Hypertension With ADT

Status: RECRUITING

Eligibility Criteria

Age: 40 years and over

This study is also accepting healthy

Healthy Volunteers: volunteers

Inclusion Criteria:

* age 40+ years; * resting blood pressure $\leq$ 140/90 mmHg; * fasted blood glucose $\leq$ 126 mg/dL; * testosterone $\geq$ 400 ng/dL; * sedentary to recreationally active; * nonsmokers; * healthy as determined by medical history, physical exam, blood and urine chemistries and resting and exercise ECG during a physician supervised graded exercise treadmill test OR recent diagnosis of non-metastatic prostate cancer with plans to undergo androgen deprivation therapy; * PSA $\leq$ 4.00 ng/dL if in the non-cancer group; * Gleason Score $\leq$ 7 if in the prostate cancer group; * no use of medications that might influence cardiovascular function (e.g., antihypertensives, lipid-lowering medications); * willing and able to be on GnRHagonist and AR inhibitor; * not taking antioxidant vitamins, corticosteroids, or anti-inflammatory medications, or willing to stop use for four weeks prior to the start of the study; * not using exogenous sex hormones for at least one year

Exclusion Criteria:

* -acute liver disease; * chronic kidney disease, serum creatinine $>$ 1.3 mg/dL, macroalbuminuria $>$ 300 mg/g of proteinuria * pre-existing or active cardiac, renal or hepatic disease, epilepsy or other seizure disorder; * diabetes, active or chronic infection, disease that affects the nervous system; * Gleason Score $\geq$ 8; * thyroid dysfunction, defined as ultrasensitive TSH $<$ 0.5 or $>$ 5.0 mU/L, volunteers with abnormal TSH values will be re-considered for participation after follow-up evaluation by the PCP with initiation or adjustment of thyroid hormone replacement; * tobacco use within the previous 12 months

Conditions & Interventions

Interventions:

DRUG: Gonadotropin Releasing Hormone Agonists (GnRH), DRUG: Androgen receptor (AR) inhibitor, DRUG: Placebo

Conditions:

Androgen Deprivation Therapy, Prostate Cancer, Hypertension, Autonomic Dysfunction, Renal Disease

More Information

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Principal Investigator:

IRB

Number:

System ID: NCT07848828

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