

# Dementia Risks Increase In Men Given Testosterone-Lowering Drugs To Treat Prostate Cancer



Prostate cancer patients treated with Androgen Deprivation Therapy, the testosterone-lowering drugs, are twice likely to develop dementia than patients who didn't receive testosterone medication, reports a recent study

Men treated with testosterone-lowering drugs for prostate cancer are at increased risk of dementia than patients who are not given testosterone therapy, reports a recent study.

Patients are treated with Androgen Deprivation Therapy (ADT) when their prostate cancer has started spreading to other parts of the body. Since testosterone is found to promote [prostate cancer](#) growth, ADT is used to decrease the levels of testosterone and other androgens in such patients. The therapy is being followed since the 1940s, and currently about half a million men in the United States are reportedly under ADT for prostate cancer.

Researchers from University of Pennsylvania Perelman School of Medicine (UP) and Stanford University School of Medicine (SU) studied the medical records of about 10,000 prostate cancer patients from Stanford Medicine's clinical research database. Of which, 1,829 patients were found to have received ADT.

Upon analysis, it was found that 7.9 percent of patients who received ADT developed dementia within the next five years while only 3.5 percent of prostate cancer patients who weren't put

under ADT developed dementia. Though the risk is observed to be double, the overall percentage still appears small.

Dr. Nigam Shah, the senior author of the study from SU, said that there is an association between dementia and ADT and therefore patients with history of dementia might have to be given alternative therapy. He also noted that the study focused on cognitive decline and dementia as a whole instead of analyzing dementia and Alzheimer's disease risks individually.

Meanwhile, the study noted that prostate cancer patients survived for 10 years irrespective of the kind of treatment they received, which include radiation therapy, surgery and active monitoring. Regardless of the treatment given initially, 99 percent of patients were found to have survived. It is clear from the study findings that active monitoring that causes fewer side effects is as effective as other therapies.

Shah and Kevin Nead, the study's lead author from UP, also clarified that the study results and findings don't recommend men under ADT to discontinue or make any changes to the current therapy without consulting their physicians.

"We are working to make such studies as simple as a Google search. If we had infinite funding, we'd do a trial for everything. But we don't have that. These cheap, few-week studies can guide us where to point our clinical trial dollars," noted Shah about their retrospective approach of the study, [reported](#) in SU press release.

**Testosterone Therapy Claims**

**WARNING**  
TESTOSTERONE THERAPY DRUGS LINKED TO HEART ATTACKS, STROKE, AND DEATH.


**All SINthetic Drugs Have Side Effects**

[Electroceuticals have no side effects](#)




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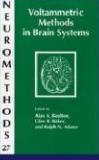


**Voltammetric Determination Of Molecules Of Biological Significance**

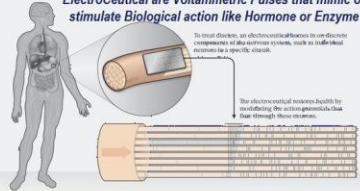
*W. Frankir, Strain*

**NEUROSCIENCE METHODS**

**Voltammetric Methods in Brain Systems**



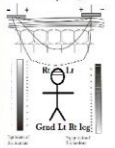
**ElectroCeuticals-Safe-Effective**  
 ElectroCeutical are Voltammetric Pulses that mimic or stimulate Biological action like Hormone or Enzyme



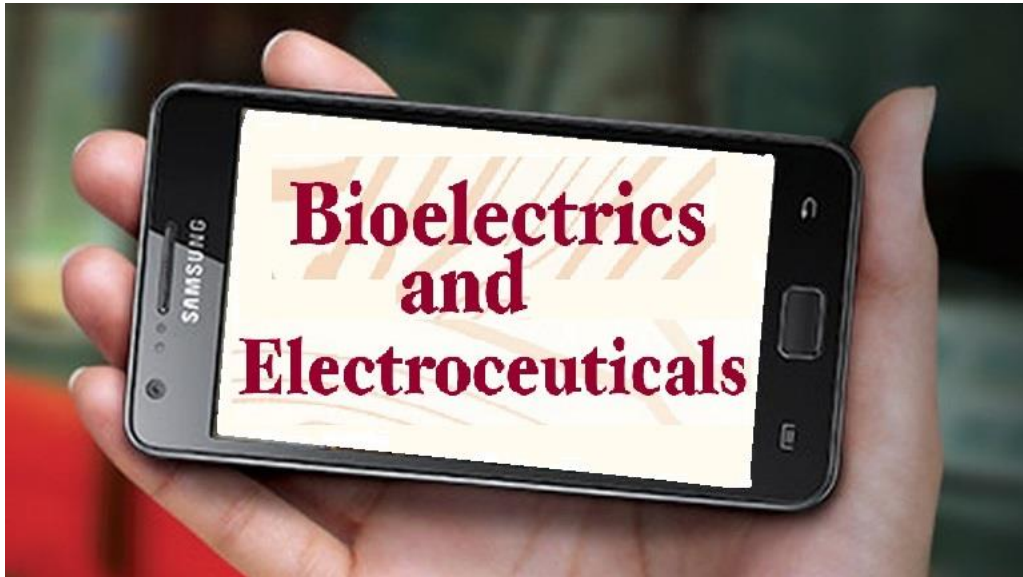
In most diseases, an electroceutical allows in an indirect way to influence the nervous system, such as under local action for a specific neuron.

The electroceutical restores health by modulating the electrochemical flow through these systems.

**Electrophysiology of polarization induced by oscillating pulsed direct current**



- Laboratory measure:  $100 \mu\text{A}$  (10-1000)  $\mu\text{s}$  after stimulation with a pulsed DC current giving rise to the ground in the leg. An oscillating direct current is the method used.
- A part of the electric current passes through the center.
- The current under the anode electrode induces a lack of positive ions at the basal part of neuronal membrane. This induces depolarization of this part of the membrane. The excitability of the neuron increases and the frequency of the background activity increases. The net effect is **excited activation of neurons**.
- Vice versa, the current under the cathode electrode attracts an excess of positive ions near the external part of the basal membrane. This induces hyperpolarization of this part of the membrane. The excitability of the neuron decreases and the frequency of the background activity decreases. The net effect is **cathodal suppression of neurons**. To avoid this, the most important data factor over the leg is the **Frequency**. The Acid-Base (pH) balance, the oxygen saturation and the  $\text{Ca}^{2+}$  concentration of  $\text{Ca}^{2+}$  are checked. Depolarization is also avoided.



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