

## Tuberoinfundibular Pathway (Dopaminergic)



PLAY PICMONIC

### Dopamine Pathway

#### [Doberman Pathway](#)

The tuberoinfundibular dopaminergic pathway is one of the four dopaminergic pathways involved in the release of dopamine.

#### Location

##### Arcuate Nucleus

#### [Archery-arrow and Nuclear-Symbol](#)

The tuberoinfundibular pathway begins in the arcuate (infundibular) nucleus of the hypothalamus.

##### Median Eminence

#### [Median-road with Eminem the Rapper](#)

The tuberoinfundibular pathway ends at the median eminence of the hypothalamus.

#### Characteristics

##### Dopamine Inhibits Prolactin (PRL)

#### [Doberman and Inhibiting-chains with Pro-milk](#)

Within the tuberoinfundibular pathway, the release of dopamine naturally inhibits the secretion of prolactin from the anterior pituitary gland.

#### Defect

##### Antipsychotics

#### [Ant-tie-psychiatrist](#)

The use of antipsychotics contributes to a dopamine blockade. Therefore, with dopamine blocked, prolactin levels can increase and contribute to hyperprolactinemia.

##### Increased Prolactin

#### [Up-arrow Pro-milk](#)

If there is a defect or the inhibition of the tuberoinfundibular pathway, this inhibits the release of dopamine. With dopamine inhibited, this leads to increased levels of prolactin.

## **Sexual Dysfunction**

### **Limp-weiner**

Defects of the tuberoinfundibular pathway will lead to decreased dopamine and increased levels of prolactin. Hyperprolactinemia can lead to conditions such as sexual dysfunction, decreased libido, gynecomastia, and galactorrhea.

## **Gynecomastia**

### **Man-boobs**

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## **Galactorrhea**

### **Lactating and Pumping Breast-milk**

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