

# **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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