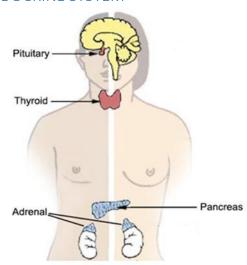
## **ENDOCRINE SYSTEM**



- Hormones are chemical messengers
- Produced by ductless glands
- Sent directly into blood stream to reach target organ
- Specific in action and function

JOHNNY JOHNNY YES PAPA SUGAR IN YOUR BLOOD? YES PAPA CHECK YOUR INSULIN YES PAPA

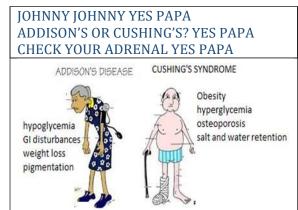


## JOHNNY JOHNNY YES PAPA BULGING EYES AND NECK? YES PAPA CHECK YOUR THYROID YES PAPA

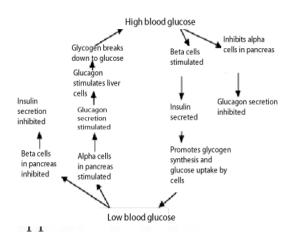


JOHNNY JOHNNY YES PAPA TOO TALL OR TOO SHORT? YES PAPA CHECK YOUR PITUITARY YES PAPA





## NEGATIVE FEEDBACK LOOPS



Hormone	Function
	Growth of muscles
	and bones
	Regulates secretion
•	of other hormones
-	Regulates water
	Aids childbirth and
Oxytociii	lactation
4.1	
Adrenaline	Prepares body to
	meet emergencies
_	Regulates
Cortisone	metabolism
Thyroxin	Regulates basal
	metabolism,
	influences general
	growth and mental
	development
Insulin	Decreases blood
	sugar level
Glucagon	Increases blood
	sugar levels
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