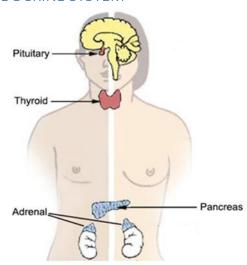
ENDOCRINE SYSTEM



- 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

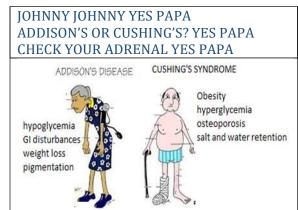


JOHNNY JOHNNY YES PAPA BULGING EYES AND NECK? YES PAPA CHECK YOUR THYROID YES PAPA

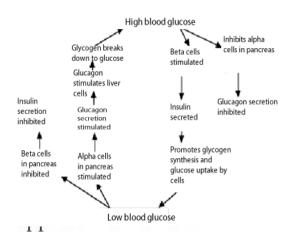


JOHNNY JOHNNY YES PAPA TOO TALL OR TOO SHORT? YES PAPA CHECK YOUR PITUITARY YES PAPA





NEGATIVE FEEDBACK LOOPS



Gland	Hormone	Function
Pituitary	Growth	Growth of muscles
(master	hormone	and bones
gland)	Tropic	Regulates secretion
Base of	hormones	of other hormones
brain		
Diaiii	Vasopressin (ADH)	Regulates water
		Aids childbirth and
	Oxytocin	lactation
A -11	A -l	
Adrenal	Adrenaline	Prepares body to
Above		meet emergencies
kidney	a	Regulates
	Cortisone	metabolism
Thyroid	Thyroxin	Regulates basal
Neck region		metabolism,
		influences general
		growth and mental
		development
Pancreas	Insulin	Decreases blood
		sugar level
	Glucagon	Increases blood
		sugar levels