Disease States		Hormone			
classification	example	FSH	LH	Testosterone	Estradiol
Male					
Primary Deficiency	Klinefelter's Syndrome	High	High	Low	-
Secondary Deficiency	Panhypopituitarism	Low	Low	Low	-
Primary Excess	Testicular Tumor	Low	Low	High	-
Secondary Excess	Precocious Puberty	High	High	High	-
Other	Seminiferous Tubule Failure	High	Normal	Normal	-
Other	Partial Androgen Insensitivity	Normal	High	High	-
Female					
Primary Deficiency	Menopause	High	High	-	Low
Secondary Deficiency	Sheehan's Syndrome	Low	Low	-	Low
Primary Excess	Feminizing Ovarian Tumor	Low	Low	-	High
Secondary Excess	Gonadotropin Producing Tumor (rare)	High	High	-	High
Other	Polycystic Ovarian Syndrome	Normal	High	High	-
Other	Masculinizing Ovarian tumor	Low	Low	High	-