

California Newborn Screening for Congenital Adrenal Hyperplasia

First Tier Testing Cut-offs ~ Prior to March 1, 2006

Birth Weight	17-OHP value (nmol/L)	
	Urgent Cut-off (specimens with values above this cut-off are called out as positive)	Indeterminate Cut-off (specimens with values above this cut-off, but below the 1 st tier cut-off get additional testing using MS/MS)
<1000g	250	220
1000g – 1499g	250	220
1500g – 2499g	210	150
2500g +	180	120

First Tier Testing Cut-offs ~ beginning March 1, 2006

Birth Weight	17-OHP value (nmol/L)	
	Urgent Cut-off (specimens with values above this cut-off are called out as positive)	Indeterminate Cut-off (specimens with values above this cut-off, but below the 1 st tier cut-off get additional testing using MS/MS)
<1000g	600	220
1000g – 1499g	250	220
1500g – 2499g	210	150
2500g +	180	120

Second Tier Testing Cut-offs (using MS/MS) Second Tier Testing Cut-offs remain the same.

All values measured in nmol/L	To be positive, both measures must be above the cut-offs.
	Cut-offs
17-OHP	38.0 nmol/L
(17-OHP + Androstendione)/Cortisol	3.75

Testing Outcome for CAH through February 2006 (n=267,055)

First Tier Urgent Positives:	462
<1000g first tier positives:	224 (48% of 1 st tier positives)
First Tier Indeterminates:	667
Second Tier Positives (17-OHP + ratio):	29 (4.3% of those requiring the additional testing)
Total Positives:	491 (0.18% of those screened)
Confirmed Cases:	20
Confirmed cases <1000g:	0
Confirmed cases 1000g – 1499g:	0
Confirmed cases from second tier testing:	1