



STATE OF MICHIGAN

DEPARTMENT OF COMMUNITY HEALTH
LANSING

JENNIFER M. GRANHOLM
GOVERNOR

JANET OLSZEWSKI
DIRECTOR

July 30, 2009
Dear Doctor:

Re: Important change in reference ranges for Neonatal 17-alpha- OH-progesterone.

Please note that on or about Monday, August 3, the reference ranges for neonatal 17-alpha-OH-progesterone (17-OHP, PerkinElmer Life & Analytical Sciences, Turku, Finland) used for screening newborns for congenital adrenal hyperplasia (CAH) will change at the MDCH Newborn Screening Laboratory. These changes are summarized below and based on data from about 3000 newborns tested from June 8 to July 15, 2009. All units for 17-OHP listed are **ng/ml**.

For newborns, >= 2500 gms, >12 hrs old

<u>Current cutoff</u>	<u>New cutoff</u>	<u>Result</u>
<90	<65	Normal
90-109	65-89	Borderline positive
>109	>89	Strong positive

For newborns, <2500 gms and/or <= 12 hrs old

<u>Current Cutoff</u>	<u>New Cutoff</u>	<u>Result</u>
<150	<100	Normal
150-209	100-149	Borderline positive
>209	>149	Strong positive

These reference range changes are necessary because of a reagent formulation change for the 17-OHP assay. Dried spot values for 17-OHP are approximately 50% lower with the new formulation because of improved antibody specificity. These new reagents have less cross reactivity with other steroid hormones than was observed with the current lot of reagents.

For questions or comments on this important change, please contact the Newborn Screening program (517-335-4181).

Sincerely,

William Young, PhD
Director, Newborn Screening Program
Bureau of Epidemiology

Kevin Cavanagh, PhD
Division Administrator
Bureau of Laboratories