

Congenital Adrenal Hyperplasia (CAH)

Health Care Professional Fact Sheet

<p>A newborn screening test is a <u>screen</u> and not diagnostic testing. An “abnormal” or “critical” result on a newborn screen indicates the baby may be at a higher risk of having a disorder; however, it does not diagnose the baby with the condition. Follow-up testing is <u>vital</u> to determine if the baby has the disorder indicated. In the event the condition is diagnosed, timely follow-up testing will result in earlier treatment and better outcomes.</p>				
<p>Disorder Indicated: Congenital adrenal hyperplasia (CAH) is a collection of inherited conditions that affect the body’s adrenal glands. In a person with CAH, the adrenal glands are unable to produce certain chemicals, including cortisol, a chemical that helps protect the body during stress or illness and helps regulate the amount of sugar in the blood. If left untreated, CAH could cause brain damage, coma, or death. However, if the condition is detected early and treatment is begun, individuals with CAH can have healthy growth and development.</p>				
Incidence	1 in every 15,000 newborns.			
Analyte Measured	17-hydroxyprogesterone (17-OHP)			
Screening Test Results <i>(by birth weight)</i>	Birth Weight	Normal	Abnormal	Critical
	<1250 g	<55 ng/mL	≥ 55 ng/mL	≥ 65 ng/mL
	1250 – 1749 g	<40 ng/mL	≥ 40 ng/mL	≥ 60 ng/mL
	1750 – 2249 g	<35 ng/mL	≥ 35 ng/mL	≥ 45 ng/mL
	≥2250 g	<25 ng/mL	≥25 ng/mL	≥ 45 ng/mL
Signs and Symptoms	<p>The signs may vary from person to person and by the form of CAH. There are three main forms of CAH: the “salt-wasting form,” the “simple virilizing form,” and non-classic CAH (least severe form).</p>			
<p><i>Please note: these findings may not be present in young infants or in milder forms of the disease</i></p>	<i>Salt-wasting form</i>		<i>Simple virilizing form</i>	
	<ul style="list-style-type: none"> Most severe form- 75% of classic CAH cases Unrecognized this condition leads to severe dehydration <p>When a child has this form of CAH, you may see symptoms including:</p> <ul style="list-style-type: none"> Poor feeding/ Weight loss Sleeping longer/Tiredness/ Irritability Vomiting/Diarrhea Rapid heart rate Male-like genitals in females 		<ul style="list-style-type: none"> 25% of classic CAH cases Signs can begin before birth. <p>When a child has this form of CAH, you may see symptoms including:</p> <ul style="list-style-type: none"> Enlarged clitoris (it may look like a small penis) Labia that are fused together (they may resemble a scrotum) Undescended or small testicles 	
Next Steps <i>may</i> include:	<p>Consult with local pediatric endocrinologist Provide parental education (see accompanying sheet) Clinical assessment Labs: Serum 17-OHP, electrolytes, glucose</p>			
Treatment (if indicated)	Hydrocortisone pills, fludrocortisone, other supplements			
Additional Resources	<p>VDH Newborn Screening http://vdhlivewell.com/newbornscreening Baby’s First Test www.babysfirsttest.org American College of Medical Genetics (ACMG) ACT Sheets www.ACMG.net Genetics Home Reference https://ghr.nlm.nih.gov/ Cares Foundation https://www.caresfoundation.org/</p>			

Educational content adapted from www.babysfirsttest.org

