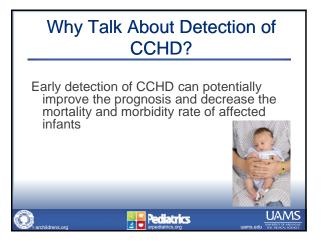


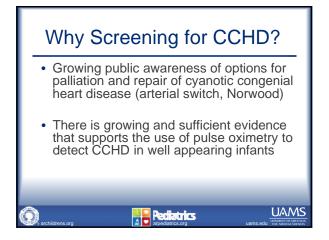
Why Talk About Detection of CCHD?

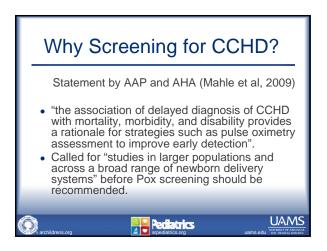
- Failing to detect CCHD in the nursery may lead to serious events such as cardiogenic shock or death
- Survivors presenting late are at greater risk for neurologic injury and subsequent devel delay or other organ damage due to hypoxia

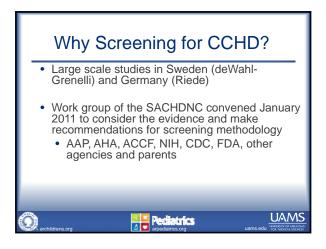
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Why Talk About Detection of CCHD? Consequences of missing CCHD in the newborn are very serious, often lethal. We have the ability to identify CCHD and treat before clinical deterioration.

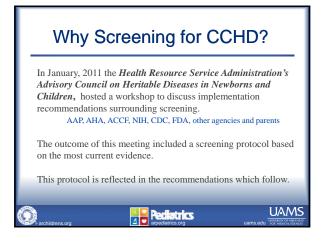


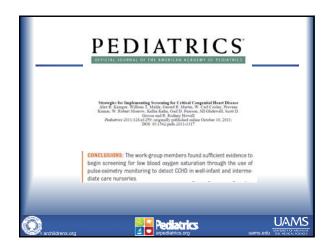


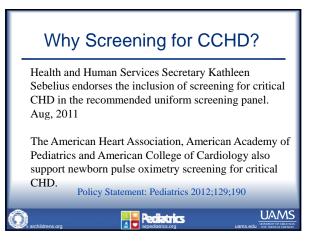


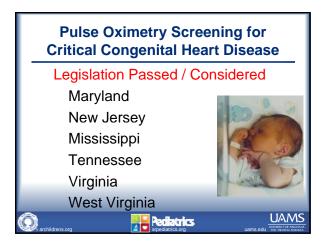


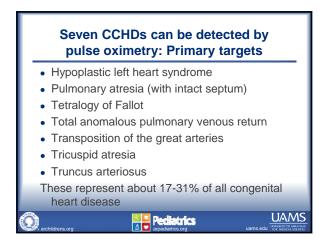
Why Screening for CCHD? Large scale studies in Sweden (deWahl-Grenelli) and Germany (Riede) 2009-2010								
Stuc	ły	Ν	NI Sat	Sens %	Spec %	False Pos	PPV	NPV
Sendell	bach	15,233	<u>></u> 96	50	94	4.5	0.1	99
Reid	le	41,445	<u>></u> 96	60	99	0.1	75	100
De Wa Grann		38,429	<u>></u> 95	62	99	0.2	12	100

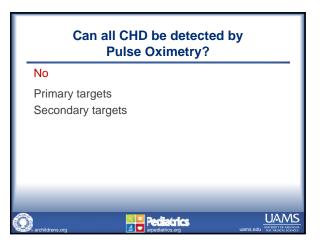








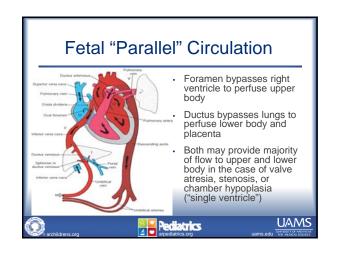


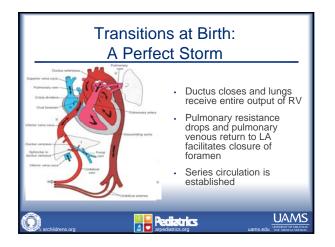


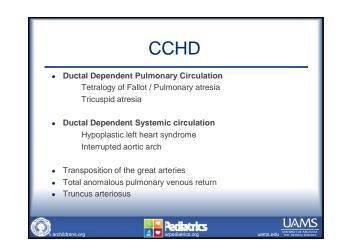
Secondary targets (may not be consistently picked up by Oximetry)

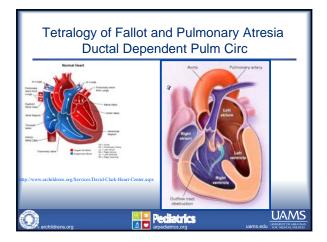
- Aortic arch atresia or hypoplasia, interrupted aortic arch, coarctation of the aorta,
- Double-outlet right ventricle,
- Ebstein's anomaly, pulmonary stenosis, atrioventricular septal defect,
- Single ventricle defects (other than hypoplastic left heart syndrome and tricuspid atresia).

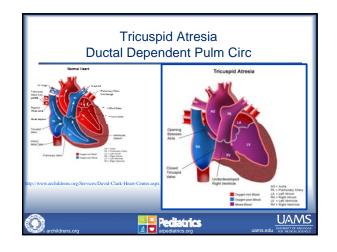
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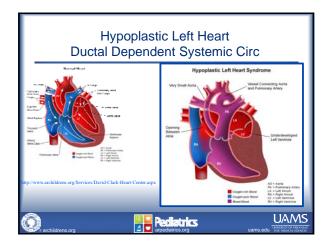


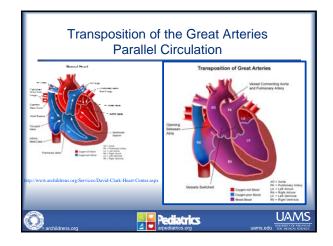


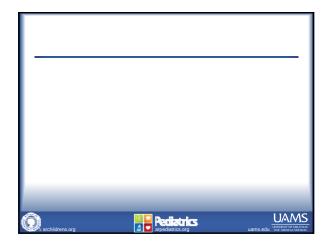


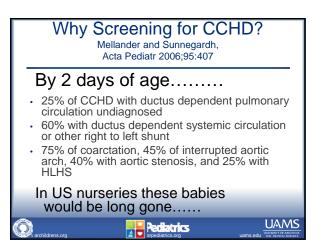


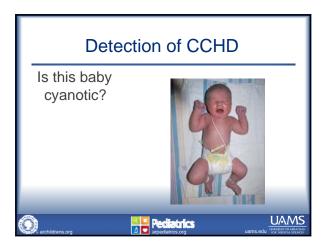


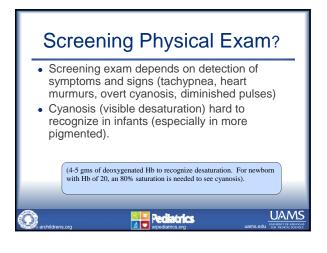


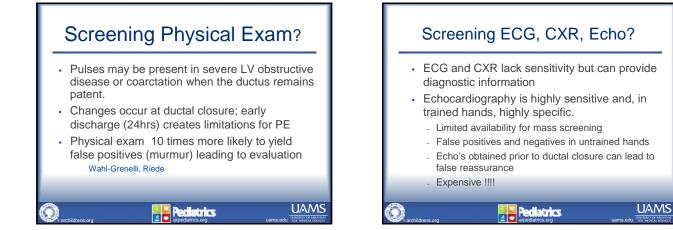


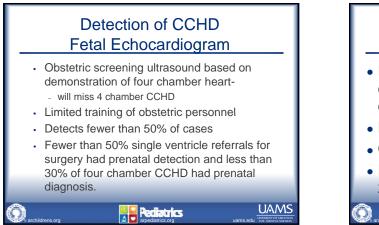


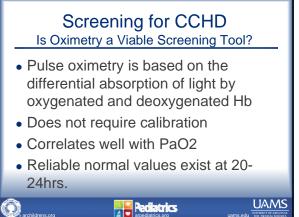




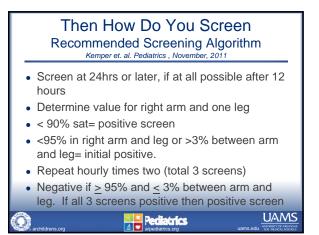


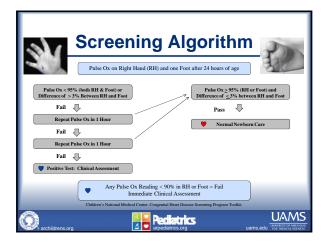


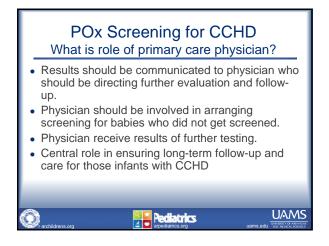


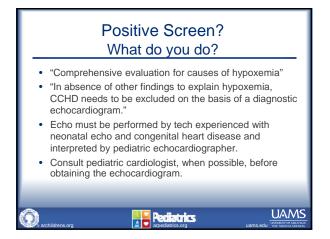


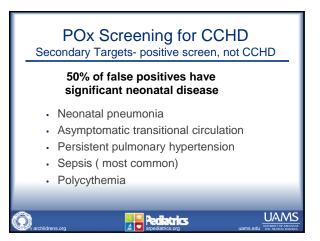
Pox Screening for CCHD Sensitivity, Specificity, PPV, NPV:2009 and after							
Study	Ν	NI Sat	Sens %	Spec %	False Pos	PPV	NPV
Sendelbach	15,233	<u>></u> 96	50	94	4.5	0.1	99
Reide	41,445	<u>></u> 96	60	99	0.1	75	100
De Wahl- Grannelli	38,429	<u>></u> 95	62	99	0.2	12	100
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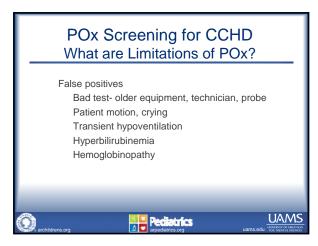


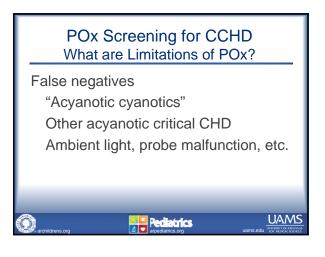






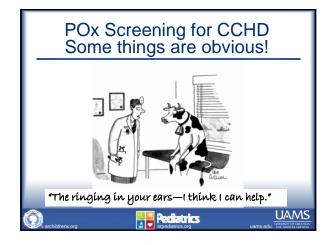














POx Screening for CCHD In Arkansas

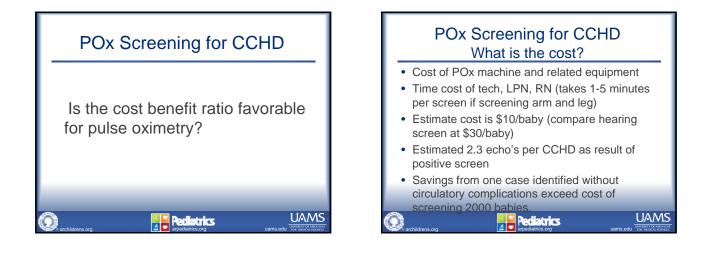
- Collaboration established between Arkansas Department of Health, Arkansas Newborn Screening Program, ACH, UAMS Neonatology, and others
- Currently not mandated and will require legislation to mandate
- UAMS is implementing screening
- Applying for grant funding from HRSA
- If interested in establishing a screening program at your hospital call Diana McDaniel, Senior Project Director, ACH,
- See guidelines for screening in Kemper, et al Pediatrics, Nov. 2011, e-pub

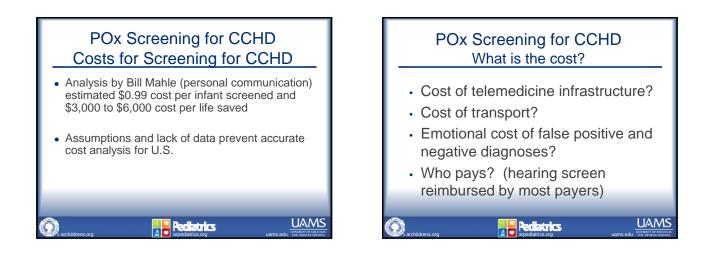
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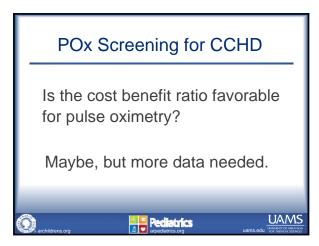
What can pediatricians do to help facilitate screening?

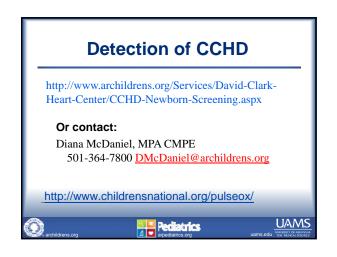
- Work with your hospital or delivery center.
- Engage your AAP Chapter leadership.
- Advocate with state health department to support statewide adoption of screening.
- Where legislation is required engage legislators and policy makers, educate, and advocate for screening.
- Some states have adopted (Maryland, New Jersey, Mississippi, others)
- Advocate for evidence based screening based on guidelines of the working group (Kemper, et al Pediatrics, Nov. 2011)

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Detection of CCHD in the
NewbornImage: State of the state

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