

Purpose

The purpose of the literature review was to conclude which risk indicators from the JCIH 2007 Position Statement should be monitored based on evidence based research.

Purpose of survey development: To determine if EHDI programs across US and Canada monitor and track risk indicators for congenital or delayed-onset hearing loss

JCIH (2007) guidelines indicate to provide continued surveillance of children who have risk indicators for delayed onset hearing loss, but description to complete the monitoring is limited.

Methods

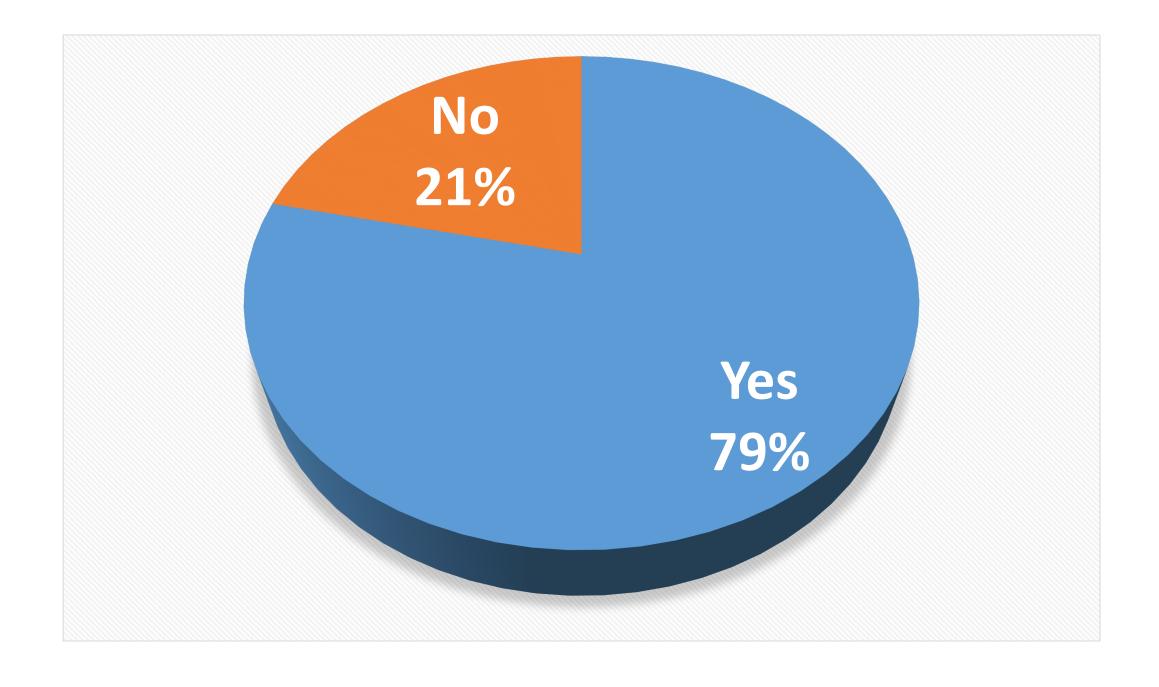
A review of the literature was completed on the risk indicators found in the JCIH 2007 Position Statement.

Data collected from October 2016-January 2017 Survey sent to:

- 66 EHDI coordinators across United States
- Unknown number across Canada (11 territories)
- 42 responses received
 - 37 from US (response rate of 56.1%)
 - 5 from Canada (response rate of 45.5%)

Survey Results

Does your EHDI program <u>monitor risk indicators</u> for delayed-onset and/or progressive hearing loss?

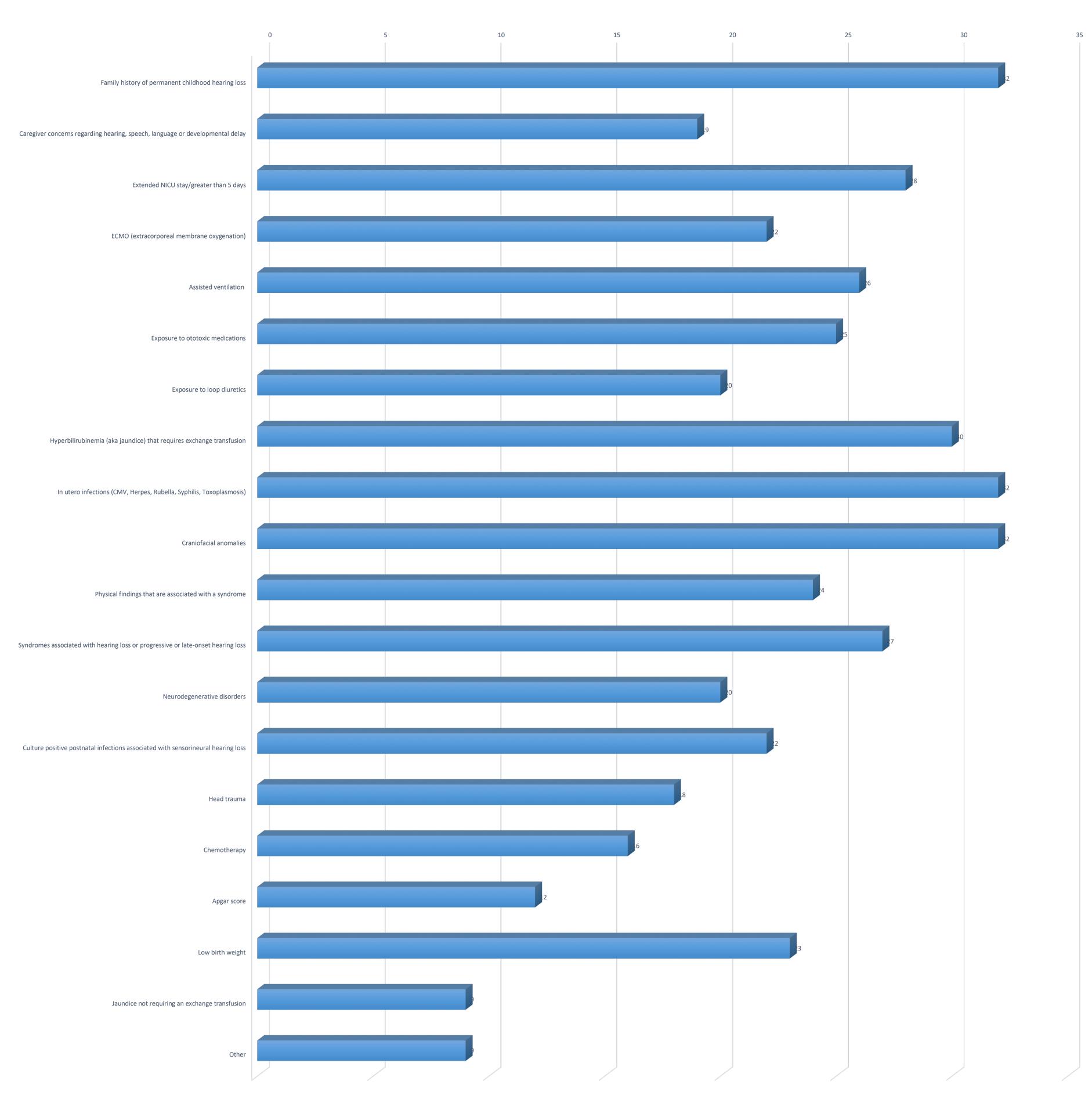


EHDI Programs Risk Indicator Monitoring Practices

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<u>Which risk indicators</u> does your EHDI program monitor?



Common risk indicators that are found on the position statement, but are not being monitored by most programs included: (1) caregiver concerns, (2) exposure to loop diuretics, (3) neurodegenerative disorders, (4) head trauma, (5) chemotherapy, (6) Apgar score, (7) jaundice not requiring exchange transfusion, and (8) others that were listed in the comment section.

One thing that stood out during the course of this research was the fact that cleft palate and cleft lip are not explicitly stated in any of the risk indicators. The prevalence of cleft lip and palate are quite significant and the occurrence of otitis media with effusion is even more significant. By not specifically monitoring children with cleft lip and/or cleft palate, some may fall through the cracks. It is recommended that cleft lip and/or cleft palate be added to the JCIH risk indicator list either under its own risk indicator or clearly stated under craniofacial anomalies. It is also recommended that each risk indicator become more specific in what should plainly stated.





Current Risk Factors Found on JCIH 2007 Position Statement

1.	Caregiver cor
	development
2.	Family histor
3.	Neonatal inte
	following reg
	ventilation, e
	diuretics, and
	transfusion
4.	In-utero infe
	toxoplasmos
5.	Craniofacial
2.	pinna, ear cai
	anomalies
6.	Physical find
0.	with a syndro
	permanent co
7.	Syndromes a
	late-onset he
	osteopetrosis
	identified syr
	and Jervell ar
8.	Neurodegene
0.	sensory moto
	Charcot-Mari
0	
9.	Culture-posit
	sensorineura
10	viral (especia
10.	Head trauma
A 4	that requires
11.	Chemotherap

Discussion



ncerns regarding hearing, speech, language, or ital delay

ry of permanent childhood hearing loss tensive care of more than 5 days or any of the gardless of length of the stay: ECMO, assisted exposure to ototoxic medications or loop d hyperbilirubinemia that requires exchange

ections, such as CMV, herpes, rubella, syphilis, and is

anomalies, including those that involve the anal, ear tags, ear pits, and temporal bone

dings, such as white forelock, that are associated ome known to include a sensorineural or conductive hearing loss

associated with hearing loss or progressive or earing loss, such as neurofibromatosis,

is, and Usher syndrome; other frequently /ndromes including Waardenburg, Alport, Pendred, and Lange-Nielson

nerative disorders, such as Hunter syndrome, or or neuropathies, such as Friedreich ataxia and ie-Tooth syndrome

itive postnatal infections associated with al hearing loss, including confirmed bacterial and ally herpes viruses and varicella) meningitis , especially basal skull/temporal bone fracture hospitalization