

Undergraduate Research Scholars

INTRODUCTION

Since 2013, Screening for Critical Congenital Heart Disease (CCHD) has been the standard of care, using an algorithm developed in Sweden. However, as this algorithm is complex and easily misinterpreted. In summer 2020 a panel of experts proposed a more simplified algorithm. As this strategy has not been tested, the American Academy of Pediatrics (AAP) has not endorsed this algorithm.

METHODS

We sent an anonymous web-based survey regarding the current and proposed CCHD screening algorithms to the members of the American AAP Section on Cardiology and Cardiac Surgery, the Pediheart online community, the Wisconsin AAP, the Wisconsin Guild of Midwives, the Association of Women's Health, Obstetric and Neonatal Nurses as well as the Wisconsin Association for Perinatal Care.

The proposed changes: **1.** All saturations \geq 95% 2. Only two chances to pass

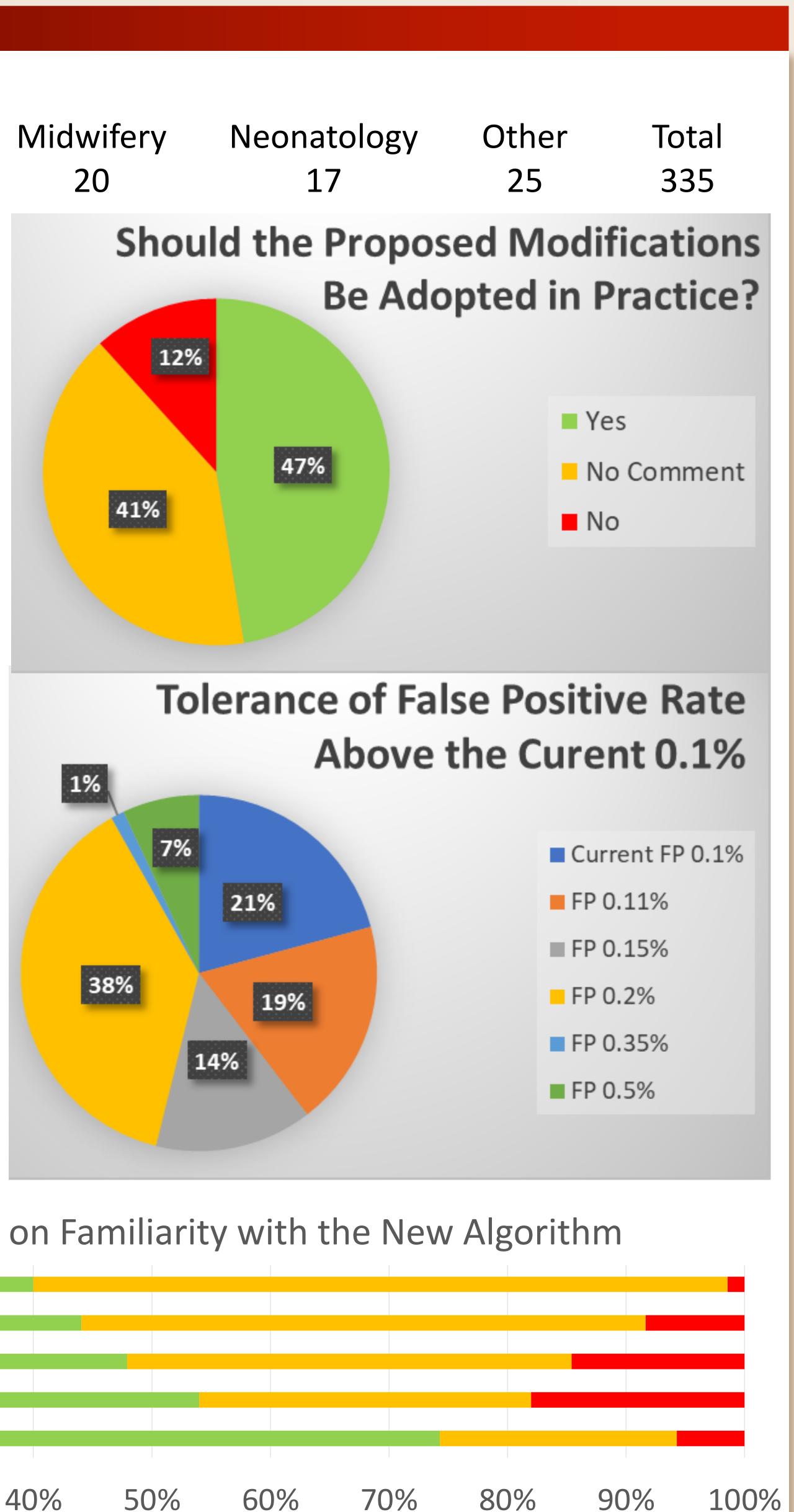
Although these changes would simplify the CCHD screening algorithm, it would come at a cost of a slightly higher false positive rate. We asked if the proposed changes should be implemented and what increase in the false positive rate could be tolerated.

Providers' Attitudes to Proposed Changes in the CCHD Screening Algorithm

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RESULTS			
Table 1 Survey	Respondents		
Nursing Ped	iatric Cardilogy	Primary Ca	re Midwifery
111	104	58	20
87.7% were so	87.7% were somewhat or extremely satisfied		
with the existing protocol.			
Factors Influencei	ng Willingness to		12%
Adopt the Proposed Changes			
Increasing Familiar	ity with Proposed		
Changes Field of Practice		P = 0.001 NS	41%
Years of Experience	2	NS	
Increasing Familiar			
Protocol		NS	Told
			TOR
Factors Influencing	y Willingness to		1%
Accept a Higher Fa			7%
Newborn Echocard		P < 0.001	
Patient Transfer fo Needed	r Evaluation Not	P < 0.001	38%
	nally Performs CCHE)	
Screening	•	P < 0.001	14
Field of Practice		NS	
Years of Experience	5	NS	
Adopti	on of Proposed	I Changes Ba	sed on Familiarity
Not Familia	ar		
Moderately Familiar			
would all the second se	У		
Extremely Familia	ar		
	0% 10%	20% 30%	40% 50%
		yes	no comment 📕 no

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60%

70%



American Family Children's Hospital



Department of Pediatrics UNIVERSITY OF WISCONSIN SCHOOL OF MEDICINE AND PUBLIC HEALTH

CONCLUSIONS

Survey respondents were generally satisfied with the existing CCHD screening protocol but many felt that the proposed protocol modifications should be adopted into clinical practice.

Those most familiar with the proposed changes were the most likely to support these changes.

Although many were willing to tolerate an increased false positive rate in CCHD screening, those providers who could not complete the assessment of a baby who failed the CCHD at the birth site had the **lowest tolerance for an increased false** positive rate.

The respondents' field of practice and years of experience were not significantly significant in regard to their recommendations to adopt the propose modifications or their tolerance of increased false positives.

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