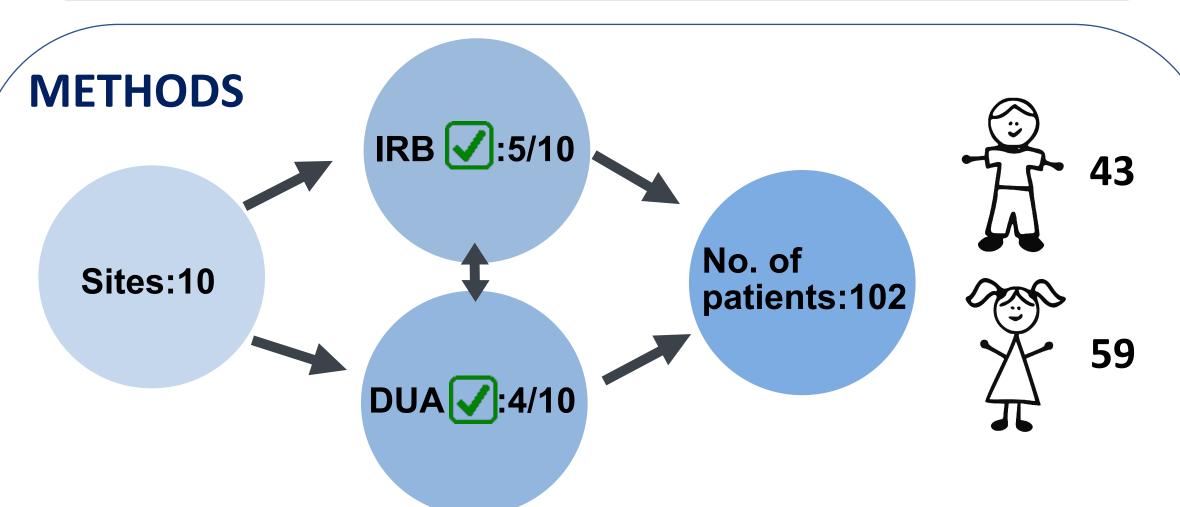
# North American Prospective Pediatric Allergic Contact Dermatitis Registry

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## **INTRO**

- True incidence of allergic contact dermatitis (ACD) in children is unknown.
- Prevalence of contact sensitization varies with respect to age, sex, and geographic location and evolves over time.
- Multi-center studies allows for accrual of geographically diverse and large number of patients.



- Multi-center prospective study
- Children <18 yo from Feb 2018 to Jan 2020</li>
- Data collection: Demographics, medical history, patchtesting results, and logistical information of patchtesting technique

No. of children (%)

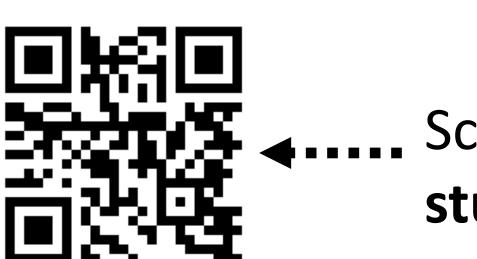
#### **RESULTS**

One or more (+) reaction

All (n=102)	82 (80.3)
History of atopic dermatitis (AD) (n=71)	57 (80.3)
Non-AD (n=31)	25 (80.6)
*P=0.97 AD vs. non-AD	
Allergens	No. of children (%)
Nickel sulfate	18 (17.6)
Cobalt chloride	17 (16.7)
Methylisothiazinolone (MI)	15 (14.7)
<b>Hydroperoxides of Linalool</b>	12 (11.8)
Methylchloroisothiazolinone/MI	12 (11.8)

#### **DISCUSSION**

- This is the first national prospective database of pediatric ACD in North America.
- We seek to create the most comprehensive and accurate collection of pediatric ACD cases which can improve our understanding of this condition in children.



Scan here for more study information!

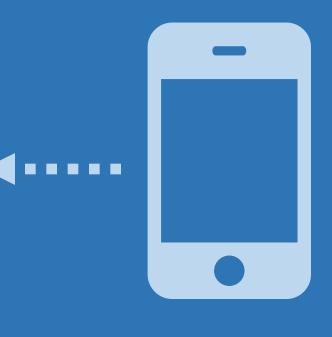
Metals, preservatives, and fragrances are top allergens in children.





More collaboration and sites are needed to improve our understanding of allergic contact dermatitis in children.





"I am interested to <u>participate!</u>"

<u>Scan</u> here with your smart phone's <u>camera</u> to <u>sign up!</u>

## **OTHER RESULTS**



IRB approvedIRB pending

Coordinating center

### Collaborating sites:

- 1. Massachusetts General Hospital
- 2. Brigham and Women's Hospital
- 3. University of Missouri
- 4. Emory University
- 5. Stanford University
- 6. Washington University in St. Louis
- 7. University of Wisconsin
- 8. Texas Children's Hospital
- 9. Northwestern University
- 10. Medical College of South Carolina

Characteristics	No. Children (%
Age at patch testing, mean $\pm$ SD	$9.0 \pm 4.8$
Sex	
Boys	43 (42.2)
Girls	59 (57.8)
Race	
White	82 (80.4)
Black	8 (7.8)
Asian	6 (5.9)
Other	6 (5.9)
Ethnicity	
Non-Hispanic	95 (93.1)
Hispanic	5 (4.9)
Average number of allergens patch tested	
per child, mean $\pm$ SD	97.7 ± 38.7
History of AD	71 (69.6)
Location of dermatitis	
Generalized	24 (23.5)
Scalp	3 (2.9)
Eyelid	7 (6.9)
Perioral	7 (6.9)
Periorbital	6 (5.9)
Facial	48 (47.1)
Neck	14 (13.7)
Chest	7 (6.9)
Abdomen	7 (6.9)
Back	13 (12.7)
Hands	24 (23.5)
Arms	31 (30.4)
Legs	23 (22.5)
Buttocks	6 (5.9)
Feet	12 (11.8)
Treatment at time of patch testing	
Topical corticosteroids	82 (80.4)
Topical calcineurin inhibitor	27 (26.5)
Crisaborole	5 (4.9)
Systemic immunosuppressant	21 (20.6)
None	16 (15.7)





