SUPPLEMENT ONLINE MATERIAL

Allergies, Allergic Comorbidities and the Home Environment in Pediatric Asthma in Southern Florida - Supplement Online Material Nadia T. Saif ¹, Gary I. Kleiner ², Lourdes Q. Forster ², Eugene R. Hershorin ², Andrew A. Colin³, Mehdi Mirsaeidi ⁴ and Naresh Kumar ^{1,*}

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Survey Instrument

1. Date of birth (dd/mm/yyyy): dd/mm/yyyy

2. Gender: Female □ Male □

- 3. Where was your child born?
 - o Florida □
 - o Outside Florida, but in U.S. \Box
 - When did your child move to Florida (month and year)? <u>mm/yyyy</u>
 - o Outside U.S. \Box
 - When did your child move to Florida (month and year)? <u>mm/yyyy</u>

4. Current residential address: city, zip code:_____

5. Does anyone who lives in your child's home smoke?

- Yes 🗆
- No □
- Decline to answer \square

6. Do you have any pets at home?

- Yes 🗆
- No □
- Decline to answer \square

7. Has your child ever had wheezing or whistling in the chest at any time in the past?

- Yes 🗆
 - Has your child had wheezing or whistling in the chest in the **past 12 months?**
 - Yes □
 - No □
 - Don't know □
 - How many attacks of wheezing has your child had in the past 12 months?
 - None □

- 1 to 3 □
- 4 to 12 □
- More than 12 \square
- In the past 12 months, how often, on average, has your child's sleep been disturbed due to wheezing?
 - Never woken with wheezing \Box
 - Less than one night per week \Box
 - One or more nights per week \Box
- No □
- Don't know \square

8. In the past 12 months, has your child's chest sounded wheezy during or after physical activity?

- Yes □
- No □
- Don't know

9. In the past 12 months, has your child had a dry cough at night, apart from a cough associated with a cold or chest infection?

- Yes □
- No □
- Don't know 🗆

10. Has a doctor or other health professional ever told your child that he/she has asthma?

- Yes 🗆
 - How old was he/she when he/she was first told that he/she has asthma? two-digit year:_____
 - Does he/she still have asthma?
 - Yes □
 - No □
 - Don't know □
 - o During the past 12 months, has he/she had an episode of asthma or an asthma attack?
 - Yes □
 - No 🗆
 - Don't know □
 - o During the past 12 months, has he/she had to visit an emergency room or urgent care center because of asthma?
 - Yes □
 - No □
 - Don't know □
 - o During the past 3 months, has your child taken medication prescribed by a doctor or other health professionals for asthma?

- Yes □
- No □
- Don't know □

During the past week for how many days {child's name} could not attend school due to worsening of his/her asthma?

NONE 1 DAY 2-3 DAYS FULL WEEK DON'T KNOW

- Did he/she develop asthma in Miami?
 - Yes □
 - No 🗆
 - Don't know □
- o Once in Miami, his/her asthma symptoms have:
 - worsened \Box
 - improved \Box
 - not changed □
 - don't know
- No □
- Don't know

11. Has a doctor or other health professional ever told your child that he/she has hay fever?

- Yes 🗆
 - How old was your child when he/she was first told he/she had hay fever? two-digit year:
 - o During the past 12 months, has your child had an episode of hay fever?
 - Yes □
 - No □
 - Don't know □
 - Once in Miami, his/her episodes of hay fever have:
 - increased/occur more often □
 - decreased/occur less often □
 - not changed □
 - don't know
- No □
- Don't know 🗆

12. Has a doctor or other health professional ever told your child that he/she has allergies?

- Yes □
 - How old was your child when he/she was first told he/she had allergies? two-digit year:
 - During the past 12 months, has your child had any allergy symptoms or an allergy attack?
 - o Yes □
 - o No □
 - o Don't know \square
 - Once you moved to Miami, his/her allergy symptoms have:
 - \circ increased in frequency or severity \square
 - o decreased in frequency or severity \Box
 - \circ not changed \square
 - o don't know \square
- No □
- Don't Know

13. Has your child been tested for "environmental allergies"?

- Yes 🗆
 - At what age was he/she tested? ______
 - Where was he/she tested?
 - Florida 🛛
 - Elsewhere □

• city/state:_____ OR country, if not in the U.S.: _____

- o Please indicate which allergens, if any, your child was found to be allergic to based on that test (please tick all that apply):

 - □ Bahia grass (*Paspalum notatum*)
 - □ Bermuda grass (*Cynodon dactylon*)
 - □ *Blomia tropicalis* (a dust mite)
 - Cat dander
 - Cladosporium herbarum (a plant fungus)
 - Cockroach
 - □ Common ragweed (short; *Ambrosia elatior*)
 - Dermatophagoides farinae (a house dust mite)
 - Dermatophagoides pteronyssinus (a house dust mite)

- Dog dander
- □ Elm (*Ulmus americana*)
- □ Maple (box elder; *Acer negindo*)
- D Mountain cedar (*Juniperus sabinoides*)
- D Mouse Urine Proteins
- D Nettle (*Urtica dioica*)
- \Box Oak (*Quercus alba*)
- D Penicillin
- □ Rough pigweed (*Amaranthus retroflexus*)
- □ Sheep sorrel (*Rumex acetosella*)
- □ Timothy grass (*Phleum pratense*)
- Other: please list ______
- □ None
- No □
- Don't know 🗆

13.a During the past 30 days for how many days did {child's name} take anti-allergy medicines (e.g. Allegra, Zyrtec, Claritin, Benadryl)?

NOT A SINGLE DAY	1
1-2 DAYS	2
3-5 DAYS	3
5-10 DAYS	4
10-30 DAYS	5
EVERY DAY	6
EVERY TWICE	7

14. Do you know of any other allergies that your child has (not based on formal testing, but based on experience)?

- Yes 🗆
 - Please list these:
- No □
- Don't know 🗆

15. In the last 12 months, has a dog, cat, or other small furry animal been removed from your child's home because your child had allergies or asthma?

• Yes 🗆

• What kind of pet was removed from your home?

● No □

16. Have you avoided bringing new pets into your home because your child had allergies or asthma?

- Yes 🗆
- No □

17. Has your child ever had a problem with sneezing, or a runny, blocked nose when he/she did not have the cold or the flu?

- Yes □
 - At what age did this nose problem first occur? two-digit year:

• In the **past 12 months**, has your child had a problem with sneezing, or a runny, or blocked nose when he/she did not have the cold or the flu?

- Yes □
- No 🗆
- In which of the past 12 months did this nose problem occur? (Please tick all tat apply)
 - January □
 - February □
 - March □
 - April □
 - May □
 - June 🗆
 - July 🗆
 - August □
 - September □
 - October □
 - November □
 - December □
- o Once you moved to Miami, his/her nose symptoms have:
 - Increased in frequency or severity \Box
 - Increased in frequency or severity \Box
 - Not changed \Box
 - Don't know □
- No 🗆
- Don't know 🗆

18. Has a doctor or other health professional ever told your child that he/she has eczema?

■ Yes □

• How old was your child when he/she was first told he/she has eczema? two-digit year____

- No □
- Don't Know □

19. Has a doctor or other health professional ever told your child that he/she has eczema?

- Yes □
 - How old was your child when he/she was first told he/she has eczema? two-digit year____
- No □
- Don't Know

Q20. Do you pay close attention to the outdoor pollen in your area?

NEVER RARELY SOMETIMES MOST OF THE TIME ALWAYS

20.a During the past week, how often did you and/or any of the family members access pollen count or allergy index from pollen.com, weather.com or any other local/state/private agency?

NONE 1 DAY 2-3 DAYS EVERY DAY TWICE A DAY

20b. How often do you change your air filter in your air conditioning system?

NEVER EVERY MONTH EVERY TWO MONTHS EVERY SIX MONTHS ONCE A YEAR DON'T KNOW

20.c Do you have any germicidal air purification system, such as ultraviolet-C, in your air condition system?

YES1 NO......2 DON'T KNOW......99 20.d Do you use an air purifier (an electric machine used to clean air) in home?

YES1	
NO	2
DON'T KNOW9	99

20.e Do you ever feel moldy (or must smell) inside your home?

YES1	
NO	2
NOT SURE99	

20.f Can you regulate humidity through your air condition/heating system

YES □ NO □ DON'T KNOW □

Q20.g. During the last 12 months, were any areas inside your home painted, such as walls, trim or ceilings?

YES	1
NO	2
REFUSED	7
DON'T KNOW	9