

Airway microbiome, nasal microRNA, and age 6-year asthma phenotypes in the MARC- 35 cohort

(MARC-35 Age 6-Year Exam)

MANUAL OF PROCEDURES: REDCap FORMS

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GENERAL INFORMATION

Site Roster

The site PI or study coordinator should email the Project Coordinator Daphne Suzin (dsuzin@mgh.harvard.edu) a roster of all study staff (including site-specific study coordinators) and their contact information. All study staff must be approved to work on the study by their local IRB.

Training Log

The site PI or study coordinator must email the Project Coordinator Daphne Suzin (dsuzin@mgh.harvard.edu) signed training log. All study staff must complete the study training components relevant to their specific role on the study. The site PI must confirm that the appropriate trainings have been completed by initialing the training log. All study staff must be approved to work on the study by their local IRB.

Site Communication Plan

The EMNet Coordinating Center website (www.emnet-usa.org) has a section dedicated to training materials for the MARC-Age 6-Year Exam which. The URL is: http://emnet-usa.org/Marc_35.7/M35.7_train.htm

Study-wide announcements and dissemination of study documents will occur through e-mail

The EMNet Coordinating Center will schedule periodic calls with sites post-initiation to assess progress throughout the study.

Study ID assignment

All children enrolled in the original MARC-35 study have been assigned a unique, 6-digit Study ID number, which is the same Study ID number we use for the MARC-35.5 research exam. The Study ID number is made up of a 3-digit site number (assigned by the EMNet Coordinating Center) plus a 3-digit participant number.

Participant numbers were originally assigned sequentially based on enrollment date and time, as well as study year. For Year 1 enrollment (November 2011 to April 2012) we used numbers in the 100s; during Year 2 (November 2012 to April 2013) we used numbers in the 200s; and during Year 3 (November 2013 to April 2014) we used numbers in the 300s. For one site that utilized all numbers in the 300's, we used numbers in the 900's.

For example, the 26th patient from site 011 during the 2nd year of the study would have been listed as "011226."

If you are uncertain of your site number or your participants' study IDs, please email Daphne Suzin (dsuzin@mgh.harvard.edu)

Form Completion Schedule

Following notification from EMNet, Site study staff will complete the Scheduling Form for all parents/legal guardians who verbally agreed to do the exam. Study staff will also complete the Research Exam Form for all participants who attended an exam. When applicable, the Protocol Deviation Form and Adverse Event & Serious Adverse Event Form also should be completed.

Miscellaneous

Times: Time notations should be made based on the 24-hour clock. Valid times should be recorded as 00:00 (midnight) to 23:59. Please note that 24:00 is not a valid time.

Unexpected findings during the exam: If the clinician detects any finding that he/she finds potentially concerning (e.g., unexpected atopic dermatitis, unexpected nasal polyp(s), unexpected wheezing or crackles, and/or an adverse reaction to albuterol), the clinician will tell the parent to contact the child's primary care clinician for further evaluation. In the case of the example of an adverse reaction to albuterol, the clinician will use his/her judgement to determine the need for immediate treatment before referral to the child's primary care clinician for further evaluation.

Instructions for REDCap Data Entry

Selecting the correct Subject and Form for data entry

To begin data entry, click on the “My Projects” tab located at the top of the screen. Select “The WIND Study (MARC-35) Age 6-Year Exam” project. Then, click on the “Add/Edit Records” icon located on the left side of the database screen. This will bring you to the screen where you can either select an existing subject (by Study ID). From the drop-down list select the individual for whom you want to perform the data entry. This will bring you to the appropriate record and display the participant’s data collection instruments, with red/yellow/green dots corresponding with forms with no data entered, that are incomplete, or that are complete. Select the appropriate form.

Pop-up Questions from Branching Logic

Forms in REDCap are programmed with branching logic so some questions will only appear on the screen when certain questions are answered in such a way to make them “pop up.” In other words, some questions on the hard-copy form are “hidden” on the online version until they are prompted.

Variable Validation

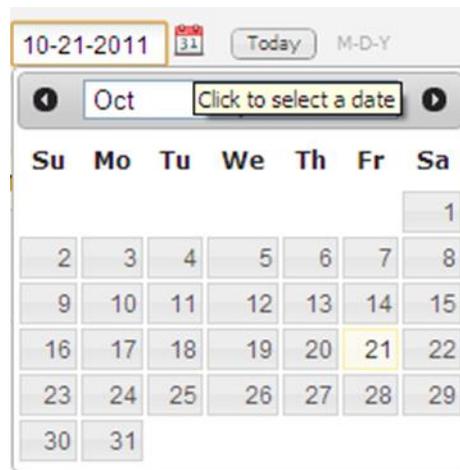
Some questions have been programmed so that answers are only accepted after they have been validated. If an invalid answer is typed into a response, a pop-up screen will appear with an error message, and a valid response must be entered.

‘Other’ Response

When the “Other” response is selected, a pop-up text box will appear that allows one to enter text to specify the response.

Dates

One can use the calendar function and click the date, or simply type the date. One also can click the “Today” button to enter the date on which the button is clicked.



Some questions require that the parent/legal guardian provide a date of an event (e.g., the date of a diagnosis of atopic dermatitis/eczema by a medical professional). For this type of question, the date variables of interest are the month and year, so please enter ‘01’ for ‘DD’ (day) and record month and year based on the parent/legal guardian response.

Times

Click on the clock button to enter time. Another option is to click the “Now” button to insert the time at which the button is clicked. If you type the time, use military time format (HH:MM).

Required Responses

When saving a form, a pop-up screen will inform you if you have skipped any questions that are required. If you have skipped any questions or need to return to the form later in order to complete it, please select “unverified” as the form status prior to saving the record. Please return to the skipped question(s) and provide a response.

If one is unable to provide a response because the information is unavailable (e.g., question not answered by parent), leave the question blank. When one is ready to save the form, choose “complete” as the form status prior to saving the record.

Saving Data

When saving each form, the form status must be categorized as “incomplete,” “unverified,” or “complete” as follows:

Click “Incomplete” if there are no data entered and you want to exit the form. You may also exit by clicking “cancel.” The button for this form will remain red on the data entry event grid.

Click “Unverified” if any fields are pending responses (i.e., the form is partially filled out). The button for this form will turn yellow on the data entry event grid.

Click “Complete” only if all fields have responses. The button for this form will turn green on the data entry event grid. Please do not mark a form with no data entered into it as “complete.”

Remember to click the “Save” or “Save and Continue” button when you are done regardless of whether the form is complete or incomplete. REDCap is programmed to time-out after 10 minutes; please be sure to save data frequently.

Save data before trying to move to any new screens or forms! Do not click on the back or forward arrows at the top left hand portion of the screen (the browser arrows). Any unsaved data will be lost.

Specific Form Instructions

Scheduling Form

The scheduling form should be completed for any child who is eligible to participate in the exam at your site following notification from EMNet that a parent has verbally agreed to participate in the exam.

Scheduling Form

Question

Instructions

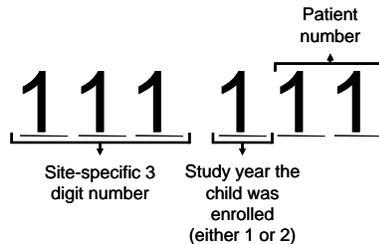
Parent/Legal Guardian Availability & Allergy Information

This section is completed by the **EMNet Coordinating Staff** and is referenced by your site for information on parent/legal guardian scheduling availability, pre-existing medical conditions, food and latex allergies, or other concerns.

Study ID

This is a unique study identification number used to specify participant data and biological specimens. Each Study ID is made of a 3-digit site specific number followed by a 3-digit individual study participant number, which is the same Study ID number assigned to the child in the original MARC-35 study.

If you are uncertain of your 3-digit site-specific number, email Daphne Suzin (dsuzin@mgh.harvard.edu)



The first digit of the 3-digit individual study participant number indicates the year the subject was enrolled (either year 1, 2, or 3); the last two digits specify the number in which this child was enrolled.

This Study ID is pre-populated in the REDCap Scheduling Form and appears at the top of the form. However, please re-enter the Study ID to confirm that you are in the correct participant record. Please also note that the Study ID must match the labels used for subsequent study forms and biospecimen samples.

Scheduling Form

Question	Instructions
Will the parent/legal guardian participate in the in-person visit?	<p>Select 'Yes' if the parent/legal guardian agreed to participation in the research exam.</p> <p>Select 'No, parent/legal guardian will not participate in the in-person visit' if the parent/legal guardian declined participation in the research exam. No further action on this form (or others) is required.</p> <p>Select 'No, parent/legal guardian not reachable' if:</p> <ol style="list-style-type: none">1. <u>At least</u> 5 telephone attempts have been made over at least 3 days in the first week of trying to schedule the exam, with supplemental emails used (if parent/legal guardian has a working e-mail address); and2. The parent/legal guardian continues to be unreachable after a <u>minimum</u> of 1 attempt via phone and email per month until the child is no longer eligible to participate in the exam (>6.0 years or >7.9 years). <p>Use the 'Telephone Correspondence Log' and 'E-mail Correspondence Log' sections to document all communication attempts.</p>
Will the exam be scheduled by hospital/clinic staff?	<p>Select 'Yes, exam will occur at hospital/clinic site' if exam will occur at a MARC-35 enrolling hospital or clinic.</p> <p>Select 'No, exam will be scheduled by EMNet Staff since exam will occur outside of hospital/clinic site' if the exam will occur outside of a MARC-35 enrolling hospital or clinic.</p> <p>Select 'Other (specify)' if the way in which the exam will be scheduled/occur does not fit into either of the two prior categories.</p>
Please specify 'other' way in which exam will be scheduled	<p>If 'Other (specify)' selected for 'Will the exam be scheduled by hospital/clinic staff?' use the free text box to describe the way in which the exam will be scheduled and occur.</p>
Ask parent/legal guardian: What are some good days or times of the week that you would be available to come in for the exam? Feel free to tell us times that would absolutely not work as well.	<p>Use the free text box to describe in detail the dates and times that work best for the parent/legal guardian to come in for the exam. Also make notes of any dates and times that are <i>not</i> convenient.</p>

Scheduling Form

Question	Instructions
Tell parent/legal guardian: I have a few questions to ask you about [child's name]'s allergies, in preparation for [child's name]'s visit. The people who do the exams typically like to have this type of information available ahead of time.	Read this to the parent during the telephone call accompanying the Scheduling Form, prior to asking the questions which follow.
Ask parent/legal guardian: does [child's name] have any known medication allergies?	Select 'Yes (specify)' if parent/legal guardian reports any known medication allergies for their child. Select 'No' if parent/legal guardian reports no known medication allergies for their child.
Ask parent/legal guardian: what are the specific medication allergies that [child's name] has?	If 'Yes (specify)' selected for 'Ask parent/legal guardian: does [child's name] have any known medication allergies?' use the free text box to describe the medication allergies in detail.
Ask parent/legal guardian: I'd like to confirm that your child does NOT have a known allergy or hypersensitivity to albuterol. Is this true?	Select 'Yes, no allergy or hypersensitivity' if parent/legal guardian reports that child does not have known allergy or hypersensitivity to albuterol. Also select 'Yes, no allergy or hypersensitivity' if the child has never had albuterol so it is not known if there is an allergy or hypersensitivity. Select 'No, child is allergic or hypersensitive to albuterol' if parent/legal guardian reports that child has a known allergy or hypersensitivity to albuterol.
Given the allergy to albuterol, we will NOT administer this medication during the visit. Your child may still complete the rest of the exam, however.	If 'No, child is allergic or hypersensitive to albuterol,' inform the parent that study staff will not administer albuterol to child during the visit, but that child may still complete the rest of the exam.
Ask parent/legal guardian: Does [child's name] have any known latex allergies?	Select 'Yes (specify)' if parent/legal guardian reports any known latex allergies for their child. Select 'No' if parent/legal guardian reports no known latex allergies for their child.

Scheduling Form

Question	Instructions
Ask parent/legal guardian: do you have any additional information to share with us on [child's name] latex allergies?	<p>If 'Yes (specify)' selected for 'Ask parent/legal guardian: do you have any additional information to share with us on [child's name] latex allergies?' use text box to describe the latex allergies in detail.</p> <p>If there is no additional information shared by the parent, enter 'No additional information provided.'</p>
Ask parent/legal guardian: does [child's name] have any known food allergies?	<p>Select 'Yes (specify)' if parent/legal guardian reports any known food allergies for their child.</p> <p>Select 'No' if parent/legal guardian reports no known food allergies for their child.</p>
Ask parent/legal guardian: what are the specific food allergies [child's name] has?	<p>If 'Yes' selected for 'Ask parent/legal guardian: does [child's name] have any known food allergies?', use text box to describe the food allergies in detail.</p>
Ask parent/legal guardian: Has [child's name] had any surgery in the past 4 weeks?	<p>Select 'Yes (specify)' if child has had surgery in the past 4 weeks. If 'Yes (specify)' selected, please inform parent that exam must be scheduled at least 4 weeks after the surgery, and schedule exam accordingly.</p> <p>Select 'No' if parent/legal guardian reports that child has not had surgery in the past 4 weeks.</p>
Ask parent/legal guardian: I am going to read to you the names of some medical conditions. Please tell me "no" if your child does not have the condition and "yes" if [he/she] does.	<p>Read this to the parent during the telephone call accompanying the Scheduling Form, prior to asking the questions that follow regarding medical conditions that the child may or may not have.</p>
Thyrotoxicosis (hyperthyroidism)	<p>Select 'Yes' if parent/legal guardian reports that child has thyrotoxicosis (hyperthyroidism).</p> <p>Select 'No' if parent/legal guardian reports that child does not have thyrotoxicosis (hyperthyroidism).</p>
Heart failure, tachydysrhythmias (heart rhythms with	<p>Select 'Yes' if parent/legal guardian reports that child has heart failure, tachydysrhythmias (heart rhythms with rapid rates) or any other heart condition.</p>

Scheduling Form

Question	Instructions
rapid rates) or any other heart condition	Select 'No' if parent/legal guardian reports that child does not have heart failure, tachydysrhythmias (heart rhythms with rapid rates) or any other heart condition.
Hypertension	Select 'Yes' if parent/legal guardian reports that child has hypertension. Select 'No' if parent/legal guardian reports that child does not have hypertension.
Decreased glucose tolerance	Select 'Yes' if parent/legal guardian reports that child has decreased glucose tolerance. Select 'No' if parent/legal guardian reports that child does not have decreased glucose tolerance.
Unstable diabetes mellitus	Select 'Yes' if parent/legal guardian reports that child has unstable diabetes mellitus. Select 'No' if parent/legal guardian reports that child does not have unstable diabetes mellitus.
Ask parent/legal guardian: Does your child take cardiac glycosides?	Select 'Yes' if parent/legal guardian reports that child takes cardiac glycosides. Select 'No' if parent/legal guardian reports that child does not take cardiac glycosides.
Thank you for this information. We will review this with a study physician and determine whether or not to administer albuterol as part of the visit.	If 'Yes' selected for any of the questions about medical conditions or cardiac glycosides, please read this prompt to the parent. Please then review information with a study physician to determine whether or not to administer albuterol as part of the visit.
Ask parent/legal guardian: Is your child toilet trained?	This question is used to determine the best way to instruct the parent about how to collect the stool sample. Answer 'Yes' if the child is toilet trained. Answer 'No' if the child is not toilet trained. Also answer 'No' if the child is in the process of being toilet trained.
Ask parent/legal guardian: do you have any special requests or	Select 'Yes (specify)' if parent/legal guardian has any special requests or concerns regarding the exam to share with you.

Scheduling Form

Question	Instructions
concerns that are relevant to the exam?	Select 'No' if parent/legal guardian does not have any special requests or concerns regarding the exam to share with you.
Ask parent/legal guardian: could you share these with us at this time, so that we can communicate them to the hospital/clinic staff?	If 'Yes (specify)' selected for 'Ask parent/legal guardian: do you have any special requests or concerns that are relevant to the exam?' use the free text box to describe these requests or concerns in detail.

Child's Age Calculator

This is section calculates the age of the child in months at the date of the exam. The IDEAL age that we would prefer the exam to occur, whenever possible, is between age 6.0 years (72 months) and age 6.9 years (83.9 months); however, the exam may be conducted from age 6.0 years (72 months) to age 7.9 years (94.9 months). Completion of this section is optional.

Please enter the child's date of birth	Enter the date of the child's birth in MM-DD-YYYY format.
Please enter date of proposed exam	Enter the date of the proposed exam in MM-DD-YYYY format.
Child's age in months at date of proposed exam	This value is calculated automatically by REDCap. The resulting age will always appear in red regardless of whether it is within the required age window. For guidance on the appropriate age range for the exam, please refer to the ages listed under the 'Child's Age Calculator' section header.

Telephone Correspondence Log

The site/clinic staff must log both successful and unsuccessful telephone call attempts with the parent/legal guardian. Please note that call attempt #1 will be used below as an example for how to complete the fields, but that repeating fields exist in REDCap for call attempts #2, #3, and beyond.

Please make at least 5 telephone attempts over at least 3 days in the first week of trying to schedule the exam, with supplemental emails used (if parent/legal guardian has a working e-mail address). If one is still unable to reach the parent/legal guardian, please make a minimum of 1 attempt via phone and email per month until the child is not longer eligible to participate in the exam (>95 months or >7.9 years).

Was CALL ATTEMPT #1 made to parent/legal guardian?	Select 'yes' if CALL ATTEMPT #1 was made to parent/legal guardian. Select 'no' if CALL ATTEMPT #1 was not made to parent/legal guardian.
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Scheduling Form

Question	Instructions
Study staff initials	<p>Enter the initials of the study staff member conducting the telephone call.</p> <p>If the hospital/clinic staff member does not have a middle name, use X for the middle initial.</p> <p>Example: Jane A. Jones: J A J Sam Smith: S X S</p>
Date and time of telephone encounter	<p>Enter the date of the call in MM-DD-YYYY format. Enter the time of the call in military time format (HH:MM).</p>
Communication type(s):	<p>Select 'Live phone call' if telephone encounter is a live phone call.</p> <p>Select 'Live voicemail message' if telephone encounter is a live voicemail message.</p> <p>Select 'Call made; no voicemail message' if telephone encounter was a call made, but no voicemail message left.</p> <p>Select 'Text message' if telephone encounter is a text message.</p> <p>Select 'Disconnected/wrong number' if telephone encounter results in contacting a disconnected or wrong number.</p> <p>Check <u>all options that apply</u> for attempts on the above date/time for the telephone encounter in question.</p>
Nature of telephone encounter:	<p>Select 'Visit scheduling' if nature of telephone encounter is to schedule the visit.</p> <p>Select 'Visit reminder' if nature of telephone encounter is to remind participant of an already scheduled visit.</p> <p>Select 'Consent' if nature of telephone encounter is to obtain consent from parent/legal guardian for attending the visit.</p> <p>Select 'Other (specify)' if nature of telephone encounter does not fit into any of the categories listed above. Please specify nature of telephone encounter in the field 'Brief description of telephone encounter'.</p>
Phone number called	<p>Enter the 10-digit phone number dialed.</p>

Scheduling Form

Question	Instructions
Name of telephone encounter recipient	Enter name of telephone encounter recipient in 'first name, last name' format. Example: Jane Smith
Relationship to child	Select 'Mother' if call recipient is the child's mother. Select 'Father', if call recipient is the child's father. Select 'Legal guardian' if call recipient is the child's legal guardian. Select 'Other (specify)' if the call recipient does not fit into any of the categories listed above (e.g., alternate contact).
Please specify 'Other'	If 'Other (specify)' was selected for 'Relationship to child', describe the relationship to the child in the text box.
Brief description of telephone encounter	Use the free text to describe content of the telephone encounter.

E-mail Correspondence Log

The site/clinic staff logs all e-mail correspondence attempts with parent/legal guardian. Please note that e-mail attempt #1 will be used as an example below, but that repeating fields will exist for e-mail attempt #2, #3, and beyond.

Please make at least 2 e-mail attempts over at least 3 days in the first week of trying to schedule the exam, with supplemental emails used (if parent/legal guardian has a working e-mail address). If one is still unable to reach the parent/legal guardian, please make a minimum of 1 attempt via phone and email per month until the child is no longer eligible to participate in the exam (>95 months or >7.9 years).

Was E-MAIL ATTEMPT #1 made to parent/legal guardian?	Select 'yes' if EMAIL ATTEMPT #1 was made. Select 'no' if EMAIL ATTEMPT #1 was not made.
Hospital/clinic staff initials:	Enter the initials of the hospital/clinic staff member communicating via e-mail. If the hospital/clinic staff member does not have a middle name, use X for the middle initial. Example: Jane A. Jones: J A J

Scheduling Form

Question	Instructions
	Sam Smith: S X S
Date and time of e-mail	Enter the date of the e-mail in MM-DD-YYYY format. Enter the time of the e-mail in military time format (HH:MM).
Nature of e-mail encounter:	Select 'Visit scheduling' if nature of e-mail encounter is to schedule the visit. Select 'Visit reminder' if nature of e-mail encounter is to remind participant to attend an already scheduled visit. Select 'Other (specify)' if nature of e-mail encounter does not fit into any of the categories listed above. Check all options that apply for attempts on the above date/time for the e-mail encounter in question.
Please specify the nature of e-mail encounter:	If 'Other (specify)' was selected for 'Nature of e-mail encounter', describe the nature of e-mail encounter in the text box.
E-mail address of recipient	Enter email address of recipient in the following format: <i>janesmith@email.com</i>
Name of e-mail recipient	Enter name of e-mail recipient in the following format: Example: Jane Smith
Relationship to child	Select 'Mother' if e-mail recipient is the child's mother. Select 'Father' if e-mail recipient is the child's father. Select 'Legal guardian' if e-mail recipient is the child's legal guardian. Select 'Other (specify)' if the e-mail recipient does not fit into any of the categories listed above.
Please specify 'other'	If 'Other (specify)' was selected for 'Relationship to child', describe the relationship of the e-mail recipient to the child in the text box.
Brief description of e-mail	Use free text to briefly describe the content of the e-mail.

Question

Instructions

Scheduling Attempts for Initial (Second, or Third) Visit

This section is completed by hospital/clinic staff after scheduling the exam and prior to the exam occurring. Please note that 'Scheduling Attempts for Initial Visit' will be used below as an example of how to complete the fields, but that repeating fields exist in REDCap for a potential second and third visit that the participant may attend to complete missed or unsuccessful assessments. This assumes that some participants may need to return to clinic one or even two additional times (e.g., unable to do spirometry or blood) so we have created these 'scheduling attempt loops' for each of the visits we are trying to schedule. Furthermore, in REDCap, there will exist five scheduling attempt fields for each of the sections corresponding to initial, second, and third visits.

Hospital/clinic staff initials

Enter the initials of the hospital/clinic staff member completing the form.

If the hospital/clinic staff member does not have a middle name, use X for the middle initial.

Example:

Jane A. Jones: J A J

Sam Smith: S X S

Initial (Second, or Third) visit, scheduling attempt #1:

Select 'Yes' if you were able to successfully schedule the exam.

Was visit successfully scheduled?

Select 'No, parent/legal guardian not reachable' if the parent/legal guardian was not reachable after at least 5 telephone attempts have been made over at least 3 days in the first week of trying to schedule the exam, with supplemental emails used (if parent/legal guardian has a working e-mail address) and parent/legal guardian continues to be unreachable after a minimum of 1 attempt via phone and email per month until the child is no longer eligible to participate in the exam (between the ages of 6.0 years and 7.9 years).

Document all communication efforts in the 'Telephone Correspondence Log' and 'E-mail Correspondence Log'.

Select 'No, parent/legal guardian changed mind and will no longer participate' if parent/legal guardian is no longer interested in participating in the research exam. No further action is required for this form.

Select 'No, other (specify)' if there is another reason (not specified above) for why the exam was not successfully scheduled.

Scheduling Form

Question	Instructions
Please specify 'other' reason visit was not successfully scheduled	If 'No, other (specify)' was selected for 'Were you able to successfully schedule the exam for [child's name]?' then use free text box to describe reason.
Date and time of visit:	If 'Yes' selected for 'Were you able to successfully schedule the exam for [child's name]?' enter the date of the scheduled exam in MM-DD-YYYY format.
Did visit occur?	Select 'Yes' if visit occurred. Select 'No' if visit did not occur.
Why did visit not occur?	Select 'Parent/legal guardian requested re-schedule or had unforeseen circumstance' if visit did not occur because the parent/legal guardian was unable to attend the visit and provided a justification why. Select 'Hospital/site requested re-schedule or had unforeseen circumstance' if visit did not occur because the hospital/site ended up being unable to accommodate the visit due to an unforeseen circumstance. Select 'Parent/legal guardian no-showed (reason unknown) and/or unreachable' if parent/legal guardian did not attend visit, but did not provide justification why, and had been unreachable for visit correspondence follow-up. Select 'Parent/legal guardian will no longer participate' if parent/legal guardian decided after having scheduled a visit that they would no longer like to attend the visit. Select 'Other reason (specify)' if the reason for visit did not occur does not fit into any of the categories above.
Please specify why visit did not occur:	If 'Other reason (specify)' was selected for 'Why did visit not occur?' describe the nature of the circumstances due to which visit did not occur in the text box.
Will visit be re-scheduled?	Select 'Yes' if visit will be re-scheduled. Select 'No, specify reason' if visit will not be re-scheduled.
Please specify why visit will not be re-scheduled:	If 'No, specify reason' was selected for 'Will visit be re-scheduled?' describe why visit will not be re-scheduled.

Question

Instructions

Completion Status of Initial (Second, or Third) Visit

This section is completed by hospital/clinic staff after the exam has occurred. Like the 'scheduling attempt loops' above for the initial, second, or third visit that a participant attends, the 'Completion Status of Initial (Second, or Third) Visit' section exists in REDCap for each of these attended visits. The section below will serve as a template for how to complete the fields in REDCap.

Please note that after the third visit, there will be no option to schedule an additional visit.

Completion status after initial (second, or third) visit:	Select 'Complete after initial visit' if parent/legal guardian attended the visit and all components of the age 6-year exam are complete. Select 'Incomplete after initial visit' if parent/legal guardian attended the visit, but needs to return to complete one or more components of the age 6-year exam.
Please check off all missing data elements that apply:	Check all options that apply for missing or incomplete data elements.
Was a second (or third) visit to complete the exam successfully scheduled?	If 'Incomplete after initial visit' was selected for 'Completion status after initial visit': Select 'Yes' if a second (or third) visit to complete the exam was successfully scheduled. Select 'Not needed since missing information was collected by alternate means' if missing information was collected by alternate means (e.g., phone call, e-mail). Select 'No, parent/legal guardian not reachable' if study staff was unable to reach parent/legal guardian to schedule an additional visit. Select 'No, parent/legal guardian declined to return' if study staff could reach parent/legal guardian to schedule an additional visit, but parent/legal guardian declined to do so. Select 'No, other reason (specify)' if the reason for a second (or third) visit not being scheduled does not fit into any of the categories above.
Please specify 'other' reason second (or third)	If 'No, other reason (specify)' was selected for 'Was a second (or third) visit to complete the exam successfully scheduled?'

Scheduling Form

Question

visit was not successfully scheduled.

Instructions

use the text box to describe the reason an additional visit was not successfully scheduled.

Research Exam Form

Research Exam Form

Question

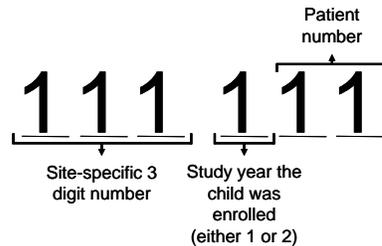
Informed Consent

Instructions

Study ID

This is a unique study identification number used to specify participant data and biological specimens. Each Study ID is made of a 3-digit site specific number followed by a 3-digit individual study participant number.

If you are uncertain of your 3-digit site-specific number, email Daphne Suzin (dsuzin@mgh.harvard.edu).



The first digit of the 3-digit individual study participant number indicates the year the subject was enrolled (either year 1, 2, or 3); the last two digits specify the number in which this child was enrolled.

This Study ID is pre-populated from the REDCap Scheduling Form and appears at the top of the form. However, please re-enter the Study ID to confirm that you are in the correct participant record. Please also note that the Study ID must match the labels used for subsequent study forms and biospecimen samples.

Date of assessment

Enter the date of the research exam in MM-DD-YYYY format.

Hospital/clinic staff Initials

Enter the initials of the hospital/clinic staff member completing the form.

If the hospital/clinic staff member does not have a middle name, use X for the middle initial.

Research Exam Form

Question	Instructions
	Example: Jane A. Jones: J A J Sam Smith: S X S
Child's first name	Enter the child's first name.
Child's last name	Enter the child's last name.
Child's date of birth	Enter the date of the child's birth in MM-DD-YYYY format.
Parent/legal guardian first name	Enter the parent/legal guardian's first name.
Parent/legal guardian last name	Enter the parent/legal guardian's last name.
Relationship to child	Indicate the parent/legal guardian's relationship to the child from the following choices: Select 'Father' if the parent/legal guardian is the child's father. Select 'Mother' if the parent/legal guardian is the child's mother. Select 'Legal guardian' if the parent/legal guardian is the legal guardian. Select 'Other (specify)' if the adult present at the exam is not the child's father, mother or legal guardian. Please note that only the parent/legal guardian may provide consent for the exam. If the individual is providing informed consent at the time of the exam and is not the parent/legal guardian, please re-schedule the exam for a time when parent/legal guardian is available to accompany the child to the exam.
Please specify 'other'	If 'Other (specify)' is selected for 'Relationship to child' use free text box to describe the adult's relationship to the child.
Was informed consent for the exam obtained from the child's parent/legal guardian?	Select 'Yes' if informed consent for the exam was obtained from the parent/legal guardian. For exams that occur outside of one of the originally enrolling sites, consent may be obtained prior to the exam. In these cases, the EMNet Coordinating Center will provide the clinician performing the exam confirmation of informed consent.

Research Exam Form

Question

Instructions

	Select 'No' if informed consent for the exam was not obtained from the parent/legal guardian. If informed consent was not obtained, please do not proceed with study assessments at this time.
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Please specify reason why parent/legal guardian declined consent	If 'No' was selected for 'Was informed consent for the exam obtained from the child's parent/legal guardian?' use the free text box to describe the reason in detail.
---	---

Please indicate the parent/legal guardian's answer to the (optional) genetic testing part of the study	Select 'Yes, interested in participating in the genetic part of this study' if parent/legal guardian agreed to participate in the optional genetic testing. Select 'No, not interested in participating in the genetic part of this study' if parent/legal guardian declined participation in the optional genetic testing.
---	--

Contact Information

Street address, apartment #	Enter the parent/legal guardian's street address and apartment number (if applicable) Example: 99 Main Street, Apartment #99
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City	Enter city or town of the parent/legal guardian's residence.
-------------	--

State	Enter the state of the parent/legal guardian's residence using the two-letter state abbreviation. Example: Massachusetts would be 'MA.'
--------------	--

ZIP code	Enter numerical value for ZIP code of the parent/legal guardian's residence.
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Primary phone number	Enter the parent/legal guardian's primary phone number. Example: (123) 456-7890
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Primary phone type	Select the parent/legal guardian's primary phone type from the following options: Select 'Home' if the primary phone type is a home phone number.
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Research Exam Form

Question	Instructions
	<p>Select 'Work' if the primary phone type is a work phone number.</p> <p>Select 'Cell' if the primary phone type is a cellular/mobile phone number.</p> <p>Select 'Other (specify)' if the primary phone type is a phone number that does not fit into one of the existing categories.</p>
Specify 'other' phone type	If 'Other (specify)' was selected for 'Primary phone type' use the free text box to describe the primary phone type.
Is there a second best phone number?	<p>Select 'Yes' if parent/legal guardian indicates an alternate number.</p> <p>Select 'No' if parent/legal guardian indicates there is no alternate phone number.</p>
Second best phone number	<p>Enter parent/legal guardian's second best phone number.</p> <p>Example: (123) 456-7890</p>
Second best phone type	<p>Select parent/legal guardian's second best phone type from the following options:</p> <p>Select 'Home' if the second best phone type is a home phone number.</p> <p>Select 'Work' if the second best phone type is a work phone number.</p> <p>Select 'Cell' if the second best phone type is a cellular/mobile phone number.</p> <p>Select 'Other (specify)' if the second best phone type is a phone number that does not fit into one of the existing categories.</p>
E-mail address	<p>Enter parent/legal guardian's email address.</p> <p>Example: janesmith@email.com</p> <p>If the parent/legal guardian does not have an email address, enter "no email."</p>

Research Exam Form

Question	Instructions
Are you planning to move or change any of your contact information (such as address, e-mail or phone) in the near future?	Select 'Yes' if the parent/legal guardian is planning to move or change their contact information in the future. Select 'No' if the parent/legal guardian is not planning to move or change their contact information in the near future.
Do you have some details to share with us at this time about the new contact information?	If 'Yes' was selected for 'Are you planning to move or change any of your contact information (such as address, e-mail or phone) in the near future?,' use the free text box to provide details.

Primary Care Clinician Information

This section applies to the information collected from the parent/legal guardian regarding the child's primary care clinician.

Name of primary care provider (PCP)	Enter the full name of primary care provider.
Name of PCP office/practice (if applicable)	Enter the name of primary care office or practice, if applicable.
PCP street address	Enter the primary care provider's street address, including apartment or suite number. Example: 99 Main Street, Suite #99 If the parent doesn't know the street address at the time of the exam, enter "unknown." Please try to complete the other address fields (e.g., city) even if the street address is unknown.
PCP state	Enter primary care provider's state using the two-letter state abbreviation. Example: Massachusetts would be 'MA.'
PCP ZIP code	Enter primary care provider's ZIP code.
Phone number of PCP	Enter the phone number of primary care provider. Example: (123) 456-7890
Fax number of PCP	Enter the fax number of primary care provider. Example: (123) 456-7890

Research Exam Form

Question

Instructions

E-mail address of PCP

Enter the e-mail address of primary care provider in the following format: *janesmith@email.com*

If the PCP does not have an email address or the parent does not know the email address, enter “no email.”

Asthma Specialist Information

This section applies to the information collected from the parent/legal guardian regarding the child’s asthma specialist.

Does your child have an asthma specialist?

Select ‘Yes’ if child has an asthma specialist.

Select ‘No’ if child does not have an asthma specialist.

Could you share as many details as you know?

If ‘Yes’ selected for ‘Does your child have an asthma specialist?’ this question appears, prompting the user to ask the parent/legal guardian this question along with related follow-up questions.

Name of asthma specialist

Enter the full name of asthma specialist.

Example: Jane Smith

Name of asthma specialist practice (if applicable)

Enter name of asthma specialist practice, if applicable.

Example: Jane Smith Associates

Street address of asthma specialist

Enter asthma specialist’s street address, including apartment or suite number.

Example: 99 Main Street, Suite #99

If the parent doesn’t know the street address at the time of the exam, enter “unknown.” Please try to complete the other address fields (e.g., city) even if the street address is unknown.

State of asthma specialist

Enter the asthma specialist’s state using the two-letter state abbreviation.

Example: Massachusetts would be ‘MA.’

ZIP code of asthma specialist

Enter the asthma specialist’s ZIP code.

Research Exam Form

Question	Instructions
Phone number of asthma specialist	Enter the phone number of asthma specialist in the Example: (123) 456-7890
Fax number of asthma specialist	Enter the fax number of asthma specialist. Example: (123) 456-7890
E-mail address of asthma specialist	Enter e-mail address of primary care provider. Example: janesmith@email.com If the asthma specialist does not have an email address or the parent does not know the email address, enter "no email."

Vital Signs & Lung Exam

This section applies to the lung examination and its associated assessments.

Please measure and record the following values	This directive prompts the user to perform and record a series of assessments for the lung exam.
Please select units used to measure temperature	Select the units used to measure temperature from the following choices: '°F' or '°C'.
Temperature (Fahrenheit)	If '°F' selected for 'Please select and record the following values:' enter the numerical value of degrees in Fahrenheit.
Temperature (Celsius)	If '°C' selected for 'Please select and record the following values:', enter the numerical value of degrees in Celsius.
Conversion of Celsius to Fahrenheit:	If the numerical value of temperature in Celsius is entered for 'Temperature (Celsius)', a conversion to degrees Fahrenheit is automatically calculated by REDCap. The displayed value will always appear in red .
Systolic pressure	Enter the numerical value of the systolic pressure in mm Hg.
Diastolic pressure	Enter the numerical value of the diastolic pressure in mm Hg.

Research Exam Form

Question	Instructions
Heart rate:	Enter the numerical value of the heart rate in beats per minute.
Select units used to measure height	Select 'inches' if units of inch were used to measure height. Select 'centimeters' if units of centimeter were used to measure height.
Height (inches)	If 'inches' selected for 'Select units used to measure height' enter the numerical value of height in inches.
Height (centimeters)	If 'centimeters' selected for 'Select units used to measure height:' enter the numerical value of height in centimeters.
Conversion of height from centimeters to inches	If the numerical value of height in centimeters is entered for 'Height (centimeters)', a conversion to inches is automatically calculated by REDCap. The displayed value will always appear in red .
Select units used to measure weight	Select 'pounds' if units of pound were used to measure height. Select 'kilograms' if units of kilogram were used to measure height.
Weight (pounds)	If 'pounds' selected for 'Select units used to measure weight' enter the weight in units of pound.
Weight (kilograms)	If 'kilograms' selected for 'Select units used to measure weight' enter the weight in units of kilogram.
Conversion of weight from kilograms to pounds:	If the numerical value of weight in kilograms is entered for 'weight (kilograms)', a conversion to pounds is automatically calculated by REDCap. The displayed value will always appear in red .
Please listen to lungs and document findings	These directives instruct the user to perform auscultation on the child, and record the findings. Definitions of wheezing and crackles are provided as a reference below.
Clear to auscultation	Select 'Yes' if lungs are clear to auscultation. Select 'No' if lungs are not clear to auscultation.

Research Exam Form

Question	Instructions
Wheezing	<p>Definition of Wheezing: A continuous whistling sound heard predominantly during expiration that is caused by narrowing of the lumen of a respiratory passageway.</p> <p>Select 'Yes' if wheezing is heard upon auscultation.</p> <p>Select 'No' if wheezing is heard upon auscultation.</p>
Crackles	<p>Definition of crackles: A discontinuous, inspiratory or expiratory lung sound, as opposed to a wheeze, which is continuous. Crackles are produced by air passing over retained airway secretions or the sudden opening of collapsed airways.</p> <p>Select 'Yes' if crackles are heard upon auscultation.</p> <p>Select 'No' if crackles are not heard upon auscultation.</p>
Other lung sounds	<p>Select 'Yes' if other lung sounds (not inclusive of wheezing or crackles) are heard upon auscultation.</p> <p>Select 'No' if other lung sounds (not inclusive of wheezing or crackles) are not heard upon auscultation.</p>
Please specify 'other lung sounds' heard upon auscultation	<p>Please describe the other lung sounds heard upon auscultation.</p>

Flexural Dermatitis Exam

This section applies to the flexural dermatitis examination on the child and the associated questions for the parent/legal guardian.

Please ask parent/guardian:	<p>This directive appears for the user as an instruction to ask the questions that follow.</p>
In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?	<p>Select 'Yes' if the parent/legal guardian reports that child has had itchy skin in the past week.</p> <p>Select 'No' if the parent/legal guardian reports that the child has not had itchy skin in the past week.</p>
In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?	<p>Select 'Yes' if the parent/legal guardian reports that child has had itchy skin in the past year.</p> <p>Select 'No' if the parent/legal guardian reports that child has not had itchy skin in the past year.</p>

Research Exam Form

Question

Instructions

In the past week, has your child suffered from dry skin in general?

Select 'Yes' if the parent/legal guardian reports that child has had dry skin in the past week.

Select 'No' if the parent/legal guardian reports that child has not had dry skin in the past week.

In the past year, has your child suffered from dry skin in general?

Select 'Yes' if the parent/legal guardian reports that child has had dry skin in the past year.

Select 'No' if the parent/legal guardian reports that child has not had dry skin in the past year.

Think about your child's itchy and dry skin and when it generally gets worse. Does it generally get worse when the weather is cold?

If 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?':

Select 'Yes' if the parent/legal guardian reports that child's skin generally gets worse when the weather is cold.

Select 'No' if the parent/legal guardian reports that child's skin does not generally get worse when the weather is cold.

Is your child's itchy and dry skin generally worse during a specific season (mark all that apply)?

If 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?':

Select 'Fall' if the parent/legal guardian reports that child's itchy and dry skin is generally worse during the Fall.

Select 'Winter' if the parent/legal guardian reports that child's itchy and dry skin is generally worse during the Winter.

Select 'Spring' if the parent/legal guardian reports that child's itchy and dry skin is generally worse during the Spring.

Select 'Summer' if the parent/legal guardian reports that child's itchy and dry skin is generally worse during the Summer.

Select 'No, all seasons' if the parent/legal guardian reports that child's itchy and dry skin is not worse during a specific season, but is itchy and dry during all seasons.

Has this skin condition ever affected the skin creases, and by skin creases we mean around the eyes, around the neck, fronts of elbows, behind the knees, or fronts of ankles?

If 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?':

Select 'Yes' if the parent/legal guardian reports that child's skin condition has affected any of the mentioned areas.

Select 'No' if the parent/legal guardian reports that child's skin condition has not affected the mentioned areas.

Has your child ever been diagnosed by a medical professional with atopic dermatitis/eczema?

If 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?':

Select 'Yes' if the parent/legal guardian reports that child has been diagnosed by a medical professional with atopic dermatitis/eczema.

Select 'No' if the parent/legal guardian reports that child has not been diagnosed by a medical professional with atopic dermatitis/eczema.

Select 'Unsure' if the parent/legal guardian is not sure if child has been diagnosed by a medical professional with atopic dermatitis/eczema.

What was the approximate date of this diagnosis?

If 'Yes' to 'Has your child ever been diagnosed by a medical professional with atopic dermatitis/eczema?':

Research Exam Form

Question

Instructions

	Enter the approximate date of this diagnosis in MM-01-YYYY format. '01' should always be used for day, while year and month are based on the parent/legal guardian's response.
Clinician please examine the skin for atopic dermatitis/eczema at each of the following sites and indicate finding	This is a directive which prompts the clinician to examine the child for atopic dermatitis/eczema and record findings.
Around the eyes?	Select 'Yes' if child has atopic dermatitis/eczema around their eyes upon examination. Select 'No' if child does not have atopic dermatitis/eczema around their eyes upon examination.
Front of neck?	Select 'Yes' if child has atopic dermatitis/eczema on the front of their neck upon examination. Select 'No' if child does not have atopic dermatitis/eczema on the front of their neck upon examination.
Around the elbows?	Select 'Yes' if child has atopic dermatitis/eczema around their elbows upon examination. Select 'No' if child does not have atopic dermatitis/eczema around their elbows upon examination.
Behind the knees?	Select 'Yes' if child has atopic dermatitis/eczema behind their knees upon examination. Select 'No' if child does not have atopic dermatitis/eczema behind their knees upon examination.
Fronts of ankles?	Select 'Yes' if child has atopic dermatitis/eczema on the fronts of their ankles upon examination. Select 'No' if child does not have atopic dermatitis/eczema on the fronts of their ankles upon examination.

Research Exam Form

Question	Instructions
Do you recall the date you first noticed this skin condition?	<p>If evidence of atopic dermatitis/eczema in at least one area above upon examination:</p> <p>Select 'Yes, recall date (specify)' if parent/legal guardian can recall the approximate date that he/she noticed the skin condition.</p> <p>Select 'Cannot recall date' if parent/legal guardian cannot recall approximate date he/she first noticed this skin condition.</p> <p>Select 'Never noticed before' if parent/legal guardian has never noticed this skin condition before.</p>
What was the approximate date when you first noticed this skin condition?	<p>If 'Yes recall date (specify)' selected for 'Do you recall the approximate date you first noticed this skin condition?' enter the date in MM-01-YYYY format.</p> <p>The day should always be listed as '01', while year and month are based on the parent/legal guardian's response.</p>
Clinician ask parent/legal guardian: Now I'd like to ask you if you have ever used anything to treat your child's skin condition, both now (currently) and in the past. Has your child's skin condition ever been treated with the following products currently or in the past? (Check off all that apply)	<p>If 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?' OR there evidence of atopic dermatitis/eczema in at least one area based on clinical examination, ask the questions that follow.</p>
CURRENTLY: Over the counter (OTC) products applied to the skin (e.g. hydrolatum, Vaseline, Aquaphor, Cetaphil, Aveeno, Cortaid, Vanicream, OTC hydrocortizone, or other OTC steroid creams or moisturizers)	<p>Select 'Yes' if parent/legal guardian reports that OTC products are currently being applied to the child's skin to treat the child's skin condition.</p> <p>Select 'No' if parent/legal guardian reports that no OTC products are currently being applied to the child's skin to treat the child's skin condition.</p> <p>Select 'Unsure' if parent/legal guardian is not sure if OTC products are currently being applied to the child's skin to treat the child's skin condition.</p>

Research Exam Form

Question	Instructions
IN THE PAST: Over the counter (OTC) products applied to the skin (e.g. hydrolatum, Vaseline, Aquaphor, Cetaphil, Aveeno, Cortaid, Vanicream, OTC hydrocortizone, or other OTC steroid creams or moisturizers)	<p>Select 'Yes' if parent/legal guardian reports that OTC products have been applied to the child's skin in the past to treat the child's skin condition.</p> <p>Select 'No' if parent/legal guardian reports that no OTC products have been applied to the child's skin in the past to treat the child's skin condition.</p> <p>Select 'Unsure' if parent/legal guardian is not sure if OTC products have been applied to the child's skin in the past to treat the child's skin condition.</p>
CURRENTLY: prescription products applied to the skin (e.g. prescription hydrocortisone, Elocon, Protopic, Elidel, or other prescription atopic dermatitis/eczema treatment)	<p>Select 'Yes' if parent/legal guardian reports that prescription products are currently being applied to the child's skin to treat the child's skin condition.</p> <p>Select 'No' if parent/legal guardian reports that no prescription products are currently being applied to the child's skin to treat the child's skin condition.</p> <p>Select 'Unsure' if parent/legal guardian is not sure if prescription products are currently being applied to the child's skin to treat the child's skin condition.</p>
IN THE PAST: prescription products applied to the skin (e.g. prescription hydrocortisone, Elocon, Protopic, Elidel, or other prescription atopic dermatitis/eczema treatment)	<p>Select 'Yes' if parent/legal guardian reports that prescription products have been applied to the child's skin in the past to treat the child's skin condition.</p> <p>Select 'No' if parent/legal guardian reports that no prescription products have been applied to the child's skin in the past to treat the child's skin condition.</p> <p>Select 'Unsure' if parent/legal guardian is not sure if prescription products have been applied to the child's skin in the past to treat the child's skin condition.</p>
CURRENTLY: Oral medications (e.g. Benadryl, Atarax, Zyrtec, Periactin, cerphalexin (Keflex), other allergy medication, or other antibiotics)	<p>Select 'Yes' if parent/legal guardian reports that oral medications are currently being used to treat the child's skin condition.</p> <p>Select 'No' if parent/legal guardian reports that no oral medications are currently being used to treat the child's skin condition.</p> <p>Select 'Unsure' if parent/legal guardian is not sure if oral medications are currently being used to treat the child's skin condition.</p>

Research Exam Form

Question

Instructions

IN THE PAST: Oral medications (e.g. Benadryl, Atarax, Zyrtec, Periactin, cerphalexin (Keflex), other allergy medication, or other antibiotics)

Select 'Yes' if parent/legal guardian reports that oral medications have been used in the past to treat the child's skin condition.

Select 'No' if parent/legal guardian reports that oral medications have been used in the past to treat the child's skin condition.

Select 'Unsure' if parent/legal guardian is not sure if oral medications have been used in the past to treat the child's skin condition.

Infant Dermatitis Quality of Life Index (IDQOL)

The Infant Dermatitis Quality of Life Index is a brief, 10-question quality of life questionnaire administered to parents of children with symptoms of atopic dermatitis/eczema who have met at least one of the following conditions:

- 'Yes' to EITHER 'In the past week, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past year, has your child had itchy skin, and by itchy we mean scratching or rubbing of the skin?' OR 'In the past week, has your child suffered from dry skin in general?' OR 'In the past year, has your child suffered from dry skin in general?'; or
- There is evidence of atopic dermatitis/eczema in at least one area based on the clinical examination.

If child meets at least one of the above conditions, please ask parent/legal guardian the questions from the IDQOL questionnaire, or hand the corresponding pages of the Research Exam Form to the parent/legal guardian to complete on their own.

Over the last week, how severe do you think your child's dermatitis has been? i.e. how red, scaly, inflamed or widespread.

Based on the parent/legal guardian's response, select one of the following answers: 'Extremely severe', 'Severe', 'Average', 'Fairly good', or 'None'.

1. Over the last week, how much has your child been itching and scratching?

Based on the parent/legal guardian's response, select one of the following answers: 'All the time', 'A lot', 'A little', or 'None'.

2. Over the last week, what has your child's mood been?

Based on the parent/legal guardian's response, select one of the following answers: 'Always crying, extremely difficult', 'Very fretful', 'Slightly fretful', or 'Happy'.

Research Exam Form

Question	Instructions
3. Over the last week, approximately how much time on average has it taken to get your child off to sleep each night?	By “off to sleep each night,” the questionnaire is referring to how long it takes your child to go to sleep after being put in bed. Based on the parent/legal guardian’s response, select one of the following answers: ‘More than 2 hours’, ‘1 to 2 hours’, ‘15 minutes to 1 hour’, ‘0 to 15 minutes’.
4. Over the last week, what was the total time that your child’s sleep was disturbed on average each night?	Based on the parent/legal guardian’s response, select one of the following answers: ‘5 hours or more’, ‘3 to 4 hours’, ‘1 to 2 hours’, ‘Less than 1 hour’.
5. Over the last week, has your child’s eczema interfered with playing or swimming?	Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘Not at all’.
6. Over the last week, has your child’s eczema interfered with your child taking part or enjoying other family activities?	Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘Not at all’.
7. Over the last week, have there been problems with your child at mealtimes because of the eczema?	Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘None’.
8. Over the last week, have there been problems with your child caused by the treatment?	“The treatment” refers to any treatment for dry, itchy skin, or atopic dermatitis/eczema. Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘None’.
9. Over the last week, has your child’s eczema meant that dressing and undressing the child has been uncomfortable?	Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘None’.
10. Over the last week, how much has your child having eczema been a problem at bathtime?	Based on the parent/legal guardian’s response, select one of the following answers: ‘Very much’, ‘A lot’, ‘A little’, ‘None’.

Research Exam Form

Question

Instructions

Nasal Exam

This section applies to the nasal examination of the child and its associated assessments.

Please assess left and right nare for polyps and record findings: Are nasal polyps present in either the left or right nare?

Select 'Yes' if nasal polyps are present in either the left or right nare(s) of the child.

Select 'No' if nasal polyps are not present in either the left or right nare(s) of the child.

Number of polyps in RIGHT nare

If 'Yes' to 'Are nasal polyps present':

Select '0' if no polyps were present in the right nare.

Select '1' if 1 polyp was observed in the right nare.

Select '2 or more' if 2 or more polyps were observed in the right nare.

Number of polyps in LEFT nare

If 'Yes' to 'Are nasal polyps present':

Select '0' if no polyps were present in the left nare.

Select '1' if 1 polyp was observed in the left nare.

Select '2 or more' if 2 or more polyps were observed in the left nare.

Nasal Swab Questionnaire

This section applies to the Nasal Swab Questionnaire administered to the parent/legal guardian and its associated questions.

Please ask parent/legal guardian the questions from the nasal swab questionnaire, or hand the corresponding pages of the Research Exam Form to the parent/legal guardian to complete on their own.

Please ask parent/legal guardian:

This directive prompts the user to ask the parent/legal guardian the questions on the Nasal Swab Questionnaire.

Does your child have a cough?

Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.

If yes, is the cough (select one)

If 'Yes' selected for 'Does your child have a cough?' select the appropriate answer based on the parent/legal guardian response: 'Mild (mostly

Research Exam Form

Question	Instructions
	gagging)', 'Moderate (cough is significant, but not waking child at night)', 'Severe (cough that causes vomiting and/or wakes your child at night).'
Does your child have a runny nose?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.
If yes, is the runny nose (select one)	If 'Yes' to 'Does your child have a runny nose?' select the appropriate answer based on the parent/legal guardian response: 'Mild (have to suction 0-4 times/day, or wipe every 2 hours or less)' or 'Severe (have to suction 5 or more times/day, or wipe every 1 or more times/hour)'.
Do you think your child has a fever (temp of 100°F or higher)?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.
Is your child hoarse (muffled, scratchy voice)?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.
Is your child breathing faster than normal?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.
Do you think your child is "wheezing" (by wheezing we mean high-pitched whistling sounds when your child is breathing out)?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No'.
Nasal Swab Specimen	
This section applies to the nasal swab specimen collection and its associated questions. Please collect a nasal swab specimen using the provided kit and put it into a -80°C freezer. For further instructions, please refer to the protocol.	
Was a nasal swab collected?	Select 'Yes' if nasal swab specimen was collected. Select 'No' if nasal swab specimen was not collected.
What date was nasal swab specimen collected?	If 'Yes' to 'Was a nasal swab specimen collected?': Enter the date nasal swab specimen collected in MM-DD-YYYY format.
What time was nasal swab specimen collected?	If 'Yes' to 'Was a nasal swab specimen collected?'

Research Exam Form

Question	Instructions
	Enter the time nasal swab specimen collected in military time format (HH:MM).
What date was nasal swab specimen placed into a freezer?	If 'Yes' to 'Was a nasal swab specimen collected?': Enter the date the nasal swab specimen was placed into a freezer in MM-DD-YYYY format.
What time was nasal swab specimen placed into a freezer?	If 'Yes' to 'Was a nasal swab specimen collected?': Enter the time nasal swab specimen was placed into a freezer in military time format (HH:MM).
Please specify reason why nasal swab specimen not collected	If 'No' to 'Was a nasal swab specimen collected?': Use free text to describe in detail the reason the nasal swab specimen was not collected.

Saliva Swab Specimen

This section applies to the saliva swab specimen collection and its associated questions. Please collect a saliva swab specimen using the provided kit and put it into a -80°C freezer. For further instructions, please refer to the protocol.

Was a saliva swab collected?	Select 'Yes' if saliva swab specimen was collected. Select 'No' if saliva swab specimen was not collected.
What date was saliva swab specimen collected?	If 'Yes' to 'Was a saliva swab specimen collected?': Enter the date saliva swab specimen collected in MM-DD-YYYY format.
What time was saliva swab specimen collected?	If 'Yes' to 'Was a saliva swab specimen collected?': Enter the time saliva swab specimen collected in military time format (HH:MM).
What date was saliva swab specimen placed into a freezer?	If 'Yes' to 'Was a saliva swab specimen collected?': Enter the date the saliva swab specimen was placed into a freezer in MM-DD-YYYY format.
What time was saliva swab specimen placed into a freezer?	If 'Yes' to 'Was a saliva swab specimen collected?': Enter the time saliva swab specimen was placed into a freezer in military time format (HH:MM).

Research Exam Form

Question

Instructions

Please specify reason why saliva swab specimen not collected

If 'No' to Was a saliva swab specimen collected?':
Use free text to describe in detail the reason the saliva swab specimen was not collected.

Stool Collection Kit Distribution

Please give the parent/legal guardian the stool collection kit, including the stool collection form, and go over the instructions in detail so that he/she understands how to collect the sample, document, and ship.

Please label all materials before giving them to the parent/legal guardian. See the Specimen Manual of Procedures for details.

FENO

This section applies to the measurement of fractional exhaled nitric oxide (FENO). FENO measurement must be done before spirometry.

Collection date and time of FENO:

Enter the date of FENO collected in MM-DD-YYYY format. Enter the time of FENO collected in military time format (HH:MM)

FENO Value:

Please obtain two valid FENO measurements that are reproducible. Record higher (best) FENO of these similar values value in units of parts per billion (ppb).

How many measurements were performed to obtain the FENO value?

Record how many measurements were performed to obtain the FENO value.

Spirometry

This section applies to the spirometry with bronchodilator reversibility.

Tell parent/legal guardian: I have a few questions to ask you about [child name]'s health history and allergies. You may already have been asked these questions before, but I need to ask them again now before we get started with this part of the visit.

Does [child's name] have any known medication allergies?

Based on the parent/legal guardian's response, select the appropriate answer: 'Yes (specify)' or 'No.'

What are the specific medication allergies that [child's name] has?

If 'Yes (specify)' to 'Does [child's name] have any known medication allergies?' ask parent/legal guardian to specify the child's medical allergies.

Research Exam Form

Question	Instructions
I'd like to confirm that your child does NOT have a known allergy or hypersensitivity to albuterol. Is this true?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes, no allergy or hypersensitivity' or 'No, child is allergic or hypersensitive to albuterol.'
Given the allergy to albuterol we will NOT administer this medication during the visit. Your child may still complete the rest of the exam, however.	If 'No, child is allergic or hypersensitive to albuterol,' inform parent/legal guardian that study staff will not administer albuterol during the visit.
Has [child's name] had a cold in the last 2 weeks?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No.'
Has [child's name] had any surgery in the past 4 weeks?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes (specify)' or 'No.' If 'Yes (specify)' to 'Has [child's name] had any surgery in the past 4 weeks?' STOP. Spirometry must be done at least 4 weeks after the surgery.
I'm going to read to you the names of some medical conditions. Please tell me "no" if your child does not have the condition and "yes" if [he/she] does.	Read to parent/legal guardian the following list of medical conditions and log the responses corresponding to the conditions.
Thyrotoxicosis (hyperthyroidism)	Select 'Yes' if child has thyrotoxicosis (hyperthyroidism). Select 'No' if child does not have thyrotoxicosis (hyperthyroidism).
Heart failure, tachydysrhythmias (heart rhythms with rapid rates), or any other heart condition	Select 'Yes' if child has heart failure, tachydysrhythmias (heart rhythms with rapid rates), or any other heart condition. Select 'No' if child does not have heart failure, tachydysrhythmias (heart rhythms with rapid rates), or any other heart condition.
Hypertension	Select 'Yes' if child has hypertension. Select 'No' if child does not have hypertension.
Decreased glucose tolerance	Select 'Yes' if child has decreased glucose tolerance.

Research Exam Form

Question	Instructions
	Select 'No' if child does not have decreased glucose tolerance.
Unstable diabetes mellitus	Select 'Yes' if child has unstable diabetes mellitus. Select 'No' if child does not have unstable diabetes mellitus.
Does your child take cardiac glycosides?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No.' Select 'Yes' if child takes cardiac glycosides. Select 'No' if child does not take cardiac glycosides.
Thank you for this information. We will review this with a study physician and determine whether to administer albuterol as part of the visit.	If 'Yes' to ANY of the conditions above or 'does your child take cardiac glycosides?' please inform parent/legal guardian that you will review with a study physician whether to administer albuterol during the visit.
Has your child taken any of these medications in the last 24 hours?	Ask parent/legal guardian whether child has taken any short-acting beta agonists, long-acting beta agonists, short-acting anticholinergics, long-acting anticholinergics, montelukast, inhaled corticosteroids, or other asthma medications in the last 24 hours. Mark all that apply.
Has your child taken a short-acting beta agonist in the last 4 hours?	If child has taken a short-acting beta agonist in the last 24 hours, ask parent/legal guardian whether child has taken this medication in the past 4 hours.
Has your child taken a long-acting beta agonist in the last 4 hours?	If child has taken a long-acting beta agonist in the last 24 hours, ask parent/legal guardian whether child has taken this medication in the past 4 hours.
Has your child taken a short-acting anticholinergic in the last 4 hours?	If child has taken a short-acting anticholinergic in the last 24 hours, ask parent/legal guardian whether child has taken this medication in the past 4 hours.
Has your child taken a long-acting anticholinergic in the last 4 hours?	If child has taken a long-acting anticholinergic in the last 24 hours, ask parent/legal guardian whether child has taken this medication in the past 4 hours.
Has your child taken montelukast in the last 4 hours?	If child has taken montelukast in the last 24 hours, ask parent/legal guardian whether child has taken this medication in the past 4 hours.

Research Exam Form

Question	Instructions
Has your child taken a short-acting beta agonist in the last 12 hours?	If 'no' to 'has your child taken a short-acting beta agonist in the last 4 hours?' then ask parent/legal guardian whether child has taken this medication in the last 12 hours.
Has your child taken a long-acting beta agonist in the last 12 hours?	If 'no' to 'has your child taken a long-acting beta agonist in the last 4 hours?' then ask parent/legal guardian whether child has taken this medication in the last 12 hours.
Has your child taken a short-acting anticholinergic in the last 12 hours?	If 'no' to 'has your child taken a short-acting anticholinergic in the last 4 hours?' then ask parent/legal guardian whether child has taken this medication in the last 12 hours.
Has your child taken a long-acting anticholinergic in the last 12 hours?	If 'no' to 'has your child taken a long-acting anticholinergic in the last 4 hours?' then ask parent/legal guardian whether child has taken this medication in the last 12 hours.
Has your child taken montelukast in the last 12 hours?	If 'no' to 'has your child taken montelukast in the last 4 hours?' then ask parent/legal guardian whether child has taken this medication in the last 12 hours.
Does your child take any other asthma medications?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No.'
How many other asthma medications does your child take?	If 'yes' to "does your child take any other asthma medications?" then ask parent/legal guardian how many other asthma medications their child takes.
What is the name of the asthma medication?	Please ask parent/legal guardian the name of each of the other asthma medications their child takes.
Has your child had any caffeine in the last 4 hours?	Based on the parent/legal guardian's response, select the appropriate answer: 'Yes' or 'No.'
Height:	Record height of child on the day spirometry was performed. Specify whether weight is recorded in units of inches or centimeters.
Weight:	Record weight of child on the day spirometry was performed. Specify whether weight is recorded in units of pounds or kilograms.

PRE-Bronchodilator

Research Exam Form

Question

Instructions

Remember to review the qualifying questions and spirometry Manual of Procedures to confirm that the participant is eligible for spirometry on the day of the visit and results comply with training standards.

Please document all values below. ALL values below are required.

Collection date and time of pre-bronchodilator spirometry:	Enter the date pre-bronchodilator spirometry was collected in MM-DD-YYYY format. Enter the time pre-bronchodilator spirometry was collected in HH:MM format.
Largest FVC	Record value of largest FVC from <u>any</u> acceptable maneuver, in units of liters.
Largest FEV₁	Record value of largest FEV ₁ from any acceptable maneuver (does not have the same maneuver as FVC), in units of liters.
FEV₁ / FVC	The value of FEV ₁ divided by FVC recorded as a percentage is calculated by REDCap.
FEF_{25-75%}	Calculate FEF _{25-75%} using data from the maneuver with <u>the largest sum of FVC + FEV₁</u> .
How many of pre-bronchodilator spirometry maneuvers are available?	The answer to this question should be 3, unless there are special circumstances. The maximum number of maneuvers is 8. Please record the number of pre-bronchodilator spirometry maneuvers available.
Please upload a scanned PDF of the PRE-bronchodilator spirometry report (including all flow-volume loops).	For each maneuver available, upload a scanned PDF of the PRE-bronchodilator spirometry report.
Bronchodilator Administration	
Was a bronchodilator administered?	Select 'Yes' if bronchodilator was administered. Select 'No' if bronchodilator was not administered.
Why was a bronchodilator not administered?	If 'No' to 'Was a bronchodilator administered?' Select 'Contraindication' if contraindication was the reason bronchodilator was not administered.

Research Exam Form

Question	Instructions
	<p>Select 'Parent refused' if parent refused administration of the bronchodilator.</p> <p>Select 'Other (specify)' if bronchodilator was not administered for another reason. Please specify this other reason.</p>
<p>Date and time of bronchodilator administration:</p>	<p>Enter the date bronchodilator was administered in MM-DD-YYYY format.</p> <p>Enter the time bronchodilator was administered in HH:MM format.</p>
<p>POST-Bronchodilator</p>	
<p>Please document all values below. ALL values below are required.</p>	
<p>Collection date and time of post-bronchodilator spirometry:</p>	<p>Enter the date pre-bronchodilator spirometry was collected in MM-DD-YYYY format.</p> <p>Enter the time pre-bronchodilator spirometry was collected in HH:MM format.</p> <p>Note: POST-bronchodilator spirometry must be started 10-15 minutes after administration of bronchodilator.</p>
<p>Largest FVC</p>	<p>Record value of largest FVC from <u>any</u> acceptable maneuver, in units of liters.</p>
<p>Largest FEV₁</p>	<p>Record value of largest FEV₁ from any acceptable maneuver (does not have the same maneuver as FVC), in units of liters.</p>
<p>FEV₁ / FVC</p>	<p>The value of FEV₁ divided by FVC recorded as a percentage is calculated by REDCap.</p>
<p>FEF_{25-75%}</p>	<p>Calculate FEF_{25-75%} using data from the maneuver with the largest sum of FVC + FEV₁.</p>
<p>How many of post-bronchodilator spirometry maneuvers are available?</p>	<p>The answer to this question should be 3, unless there are special circumstances. The maximum number of maneuvers is 8. Please record the number of post-bronchodilator spirometry maneuvers available.</p>
<p>Please upload a scanned PDF of the POST-bronchodilator spirometry report (including all flow-volume loops).</p>	<p>For each maneuver available, upload a scanned PDF of the PRE-bronchodilator spirometry report.</p>

Research Exam Form

Question	Instructions
Did an additional visit for spirometry occur?	Select 'Yes' if an additional visit for spirometry occurred. Select 'No' if an additional visit for spirometry did not occur. If 'Yes' to 'Did an additional visit for spirometry occur?' please complete the spirometry section in an additional Research Exam Form in REDCap for each return visit.

Blood Specimen – CBC/diff

This section applies to the complete blood count with differential specimen.

Was a CBC/diff ordered for real-time analysis at your local lab?	Select 'Yes' if a CBC/diff was ordered for real-time analysis at your local lab. A CBC/diff must be ordered for each exam. Select 'No' if a CBC/diff was not ordered for real-time analysis at your local lab.
Please specify why CBC/diff was not collected, and comment on plans for future blood draw attempts	If 'No' selected to 'Was a CBC/diff ordered for real-time analysis at your local lab?' use the text box to describe the reason and plans for future blood draws in detail.
If 'yes' selected for 'Was a CBC/diff ordered for real-time analysis at your local lab?' the user is prompted to answer the following questions:	
Collection date and time of specimen for the CBC/diff	Enter the date of the CBC/diff collection in MM-DD-YYYY format followed by the time of the CBC/diff collection in military time format (HH:MM).
% Hematocrit (HCT)	Enter numerical value for % hematocrit.
Hemoglobin (HGB)	Enter numerical value for hemoglobin.
Hemoglobin (HGB) units	Select the appropriate units of hemoglobin that correspond to your laboratory results from the following choices: 'g/dL', 'g/L', or 'mmol/L'.
Red blood cell count (RBC)	Enter the numerical value for red blood cell count.

Research Exam Form

Question	Instructions
Red blood cell (RBC) units	Select the appropriate units of red blood cells that correspond to your laboratory results from the following choices: 'x10 ⁶ /mm ³ ', 'x10 ⁶ /μL', or 'x10 ⁹ /L'.
White blood cell (WBC) count	Enter numerical value for white blood cell count.
White blood cell (WBC) units	Select the appropriate units of white blood cells that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', or 'x10 ⁹ /L'.
Platelet count (PLT)	Enter the numerical value for platelet count.
Thrombocyte/platelet (PLT) units	Select the appropriate units of platelets/thrombocytes that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ /mm ³ ', or 'x10 ⁹ /L'.
Absolute neutrophil count (ANC)	Enter the numerical value for absolute neutrophil count.
Absolute neutrophil count (ANC) units	Select the appropriate units for absolute neutrophils that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', or 'x10 ⁹ /L'.
Absolute lymphocyte count (ALC)	Enter the numerical value for absolute lymphocyte count.
Absolute lymphocyte count (ANC) units	Select the appropriate units for absolute lymphocyte count that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', or 'x10 ⁹ /L'.
Absolute monocyte count (AMC)	Enter numerical value for absolute monocyte count.
Absolute monocyte count (AMC) units	Select the appropriate units for absolute monocyte count that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', 'x10 ⁹ /L'.
Absolute eosinophil count (AEC)	Enter numerical value for absolute eosinophil count.
Absolute eosinophil count (AEC) units	Select the appropriate units for absolute eosinophil count that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', 'x10 ⁹ /L'.

Research Exam Form

Question	Instructions
Absolute basophil count (ABC)	Enter numerical value for absolute basophil count.
Absolute basophil count (ABC) units	Select the appropriate units for absolute neutrophil count that correspond to your laboratory results from the following choices: 'x10 ³ /μL', 'x10 ³ / mm ³ ', or 'x10 ⁹ /L'.
% Neutrophils	Enter the numerical value of % neutrophils.
% Lymphocytes	Enter the numerical value of % lymphocytes.
% Monocytes	Enter the numerical value of % monocytes.
% Eosinophils	Enter the numerical value of % eosinophils.
% Basophils	Enter the numerical value of % basophils.

Blood Specimen – Red Top

This section applies to the red top (research blood) specimen.

Please answer the following questions regarding the red top research blood specimen	This directive instructs the user to complete the questions to follow on the red top (research blood) specimen.
Was a red top blood specimen collected?	Select 'Yes' if a red top blood specimen was collected. Select 'No' if a red top blood specimen was not collected.
Please specify why a red top blood specimen was not collected and comment on plans for future blood draw attempts	If 'No' selected for 'Was a red top blood specimen collected?' use the text box to describe reason why and comment on plans for future blood draws in detail.
If 'Yes' selected for 'Was a red top blood specimen collected?' the user is prompted to answer the following questions:	
Collection date and time of red top blood specimen	Enter the date of the red top blood collection in MM-DD-YYYY format, followed by the time of the red top blood collection in military time format (HH:MM).
Total number of red top tubes collected	Select '1' if one red top tube was collected.

Research Exam Form

Question	Instructions
	Select '2' if two red top tubes were collected.
Please choose the appropriate category for your red top blood sample total volume	Select 'equal or greater than 4.5mL' if this corresponds to the volume of red top blood collected. Select 'less than 4.5mL' if this corresponds to the volume of red top blood collected.
Volume of red top blood collected (mL)	Enter the total volume of red top blood collected.
As less than 4.5 mL of the red top was collected, was an additional blood draw attempted or scheduled?	If 'less than 4.5mL' selected for 'please choose the appropriate category for your red top blood sample total volume': Select 'Yes' if an additional blood draw was attempted or scheduled. Select 'No' if an additional blood draw was not attempted or scheduled.
Please specify reason additional red top blood was not attempted or scheduled for a future date	If 'No' selected for 'As less than 4.5 mL of the red top was collected, was an additional blood draw attempted or scheduled?' use the text box to describe the reason(s) in detail.
How many additional red top blood draws were attempted?	If 'Yes' selected for 'As less than 4.5mL of the red top was collected, was an additional blood draw attempted or scheduled?' select the value that corresponds to the number of additional red top blood draw applicable: Select '1' if 1 additional red top blood draw was attempted. Select '2' if 2 additional red top blood draws were attempted. Select '3' if 3 additional red top blood draws were attempted.
Volume of additional red top blood draw attempt (mL)	If any number selected for 'How many additional red top blood draws were attempted?' indicate the volume resulting from the additional blood draw attempt. If more than one additional red top blood draw attempts were made, indicate the combined volume from all additional attempts.

Research Exam Form

Question	Instructions
Total volume of red top blood specimen (original blood draw volume plus all additional draw volumes)	<p>The total volume of red top blood specimen” is calculated automatically by REDCap. It adds the volume resulting from the original blood draw with the volume from any additional blood draw attempts.</p> <p>Example: Original blood draw volume: 2mL Additional blood volume: 4mL Total blood volume: 6mL (value automatically calculated and displayed).</p>
Total number of serum (white top) cryogenic vials available	<p>If ‘Yes’ selected for ‘Was a red top blood specimen collected?’ select the value that corresponds to the number of serum (white top) cryogenic vials available:</p> <p>Select ‘0’ if no serum (white top) cryogenic vials are available.</p> <p>Select ‘1’ if 1 serum (white top) cryogenic vials are available.</p> <p>Select ‘2’ if 2 serum (white top) cryogenic vials are available.</p>
Please specify why no serum (white top) cryogenic vials available	<p>If ‘0’ selected for ‘Total number of serum (white top) cryogenic vials available’ use the text box to indicate the reason in detail.</p>
Total volume of serum (add all white top volumes) (mL)	<p>If ‘1’ or ‘2’ selected for ‘Total number of serum (white top) cryogenic vials available’ indicate the total volume of all vials added together.</p>
Total number of pellet (blue top) cryogenic vials available	<p>If ‘Yes’ selected for ‘Was a red top blood specimen collected?’ select the value that corresponds to the number of pellet (blue top) cryogenic vials available:</p> <p>Select ‘0’ if no pellet (blue top) cryogenic vials are available.</p> <p>Select ‘1’ if 1 pellet (blue top) cryogenic vials are available.</p> <p>Select ‘2’ if 2 pellet (blue top) cryogenic vials are available.</p> <p>Note: For participants who did not agree to the genetics portion of the study, the pellet will NOT undergo genetics analysis, but will be used for non-</p>

Research Exam Form

Question

Instructions

genetics testing so should still be recorded, stored, and shipped to MGH (see shipment instructions below).

Please specify why no pellet (blue top) cryogenic vials available

If '0' selected for 'Total number of pellet (blue top) cryogenic vials available' use the text box to indicate the reason in detail.

Total volume of pellet (add all blue top volumes) (mL)

If '1' or '2' selected for 'Total number of pellet (blue top) cryogenic vials available' indicate the total volume of all vials added together.

Protocol Deviation Report Form

Protocol deviations are reported using the Protocol Deviation Report Form in REDCap. Protocol deviation reports must include the deviation date, subject number, a brief description of the event, the reason for the deviation, and steps taken to resolve or avoid recurrence of the deviation.

A major protocol deviation is any change, divergence or departure from the study design or procedures of a research protocol that affects the study participant's rights, safety, or well-being and/or the completeness, accuracy and reliability of the study data. Changes or alterations in the conduct of the study which do not have a major impact on the study participant's rights, safety, or well-being, or the completeness, accuracy and reliability of the study data are considered non-major protocol deviations. The deviation may be either on the part of the participant, the investigator, or the study site staff.

If there is a major protocol deviation, notify Ashley Sullivan (afsullivan@partners.org) immediately.

The following are examples of noncompliance with the protocol, Good Clinical Practice, or Manual of Procedure guidelines that must be reported:

- Forms or procedures not done or not completed as required;
- Blood specimen storage errors (e.g., supposed to be frozen, but was left sitting out);
- Informed consent not obtained prior to initiation of exam procedures;
- Failure to use the current approved version of the informed consent;
- Consent form is missing, or consent form was not signed and dated by the subject or appropriate legal guardian; and
- Protocol never approved by IRB or other IRB violations.

Protocol Deviation Report Form

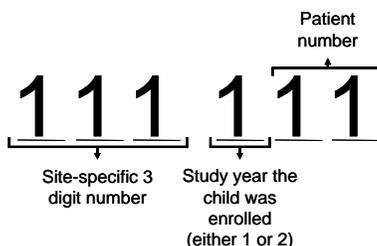
Question

Instructions

Study ID

This is a unique study identification number used to specify participant data and biological specimens. Each Study ID is made of a 3-digit site specific number followed by a 3-digit individual study participant number.

If you are uncertain of your 3-digit site-specific number, email Daphne Suzin (dsuzin@mgh.harvard.edu)



Protocol Deviation Report Form

Question	Instructions
	<p>The first digit of the 3-digit individual study participant number indicates the year the subject was enrolled (either year 1, 2, or 3); the last two digits specify the number in which this child was enrolled.</p> <p>This Study ID is pre-populated from the REDCap Scheduling Form and appears at the top of the form. However, please re-enter the Study ID to confirm that you are in the correct participant record.</p>
Date of Report:	Enter the date in which the protocol deviation was reported. Use the MM-DD-YYYY format.
Date of Protocol Deviation:	Enter the date in which the protocol deviation occurred. Use the MM-DD-YYYY format.
Site	<p>Select your site's name from the drop-down list:</p> <p>APHC: Arnold Palmer Hospital for Children CCHMC: Cincinnati Children's Hospital Medical Center BCH: Boston Children's Hospital CHOP: Children's Hospital of Philadelphia CNMC: Children's National Medical Center Norton: Norton Children's Hospital Mercy: Children's Mercy Hospital & Clinics MGH: Massachusetts General Hospital Texas: Texas Children's Hospital DuPont: Alfred I DuPont Hospital for Children CHLA: Children's Hospital Los Angeles Pittsburgh: Children's Hospital of Pittsburgh Dallas: Children's Medical Center of Dallas Connecticut: Connecticut Children's Medical Center Dell: Dell Children's Medical Center of Central Texas Phoenix: Phoenix Children's Hospital Seattle: Seattle Children's Hospital Saint Francis: Children's Hospital at Saint Francis Off-Site: Local clinician office: Please select this option if the exam location if it is not at one of the sites specified above.</p>
Other (specify)	If 'Off-Site: Local clinician office' selected for 'Site' please enter the name of the exam location.
Site Investigator Name	If the exam took place at one of the m35 enrolling hospitals, enter the site principal investigator's name (first and last name). If the exam too place at another location, enter the lead exam clinician's name (first and last name).

Protocol Deviation Report Form

Question	Instructions
DAIT Protocol Number	The DAIT protocol number is R01AI127507. This number is automatically populated in REDCap.
Protocol Title or Short Name	The protocol title is “Airway microbiome, nasal microRNA, and age 6-year asthma phenotypes in the MARC-35 cohort.” This title is automatically populated in REDCap.
Did the deviation result in an Adverse Event?	Enter ‘Yes’ if the protocol deviation resulted in an adverse event. If so, also complete an AE & SAE Case Report Form. Enter ‘No’ if the protocol deviation did not result in an adverse event.
Did the deviation result in a Serious Adverse Event?	Enter ‘Yes’ if the protocol deviation resulted in a serious adverse event. If so, also complete an AE & SAE Case Report Form. Enter ‘No’ if the protocol deviation did not result in a serious adverse event.
Did the deviation result in subject termination of study follow-up?	Enter ‘Yes’ if the protocol deviation resulted in a termination of study follow-up for the subject. If so, notify Ashley Sullivan (afsullivan@partners.org ; 617-724-9712) of the termination. Enter ‘No’ if the protocol deviation did not result in termination of the study follow-up for the subject.
Brief deviation description	Use the text box to describe the protocol deviation in detail. For examples of protocol deviations, please see Section 8 of the protocol.
Describe steps take to resolve or avoid recurrent of the deviation and procedures put in place to ensure protocol followed	Describe the steps taken to resolve or avoid this deviation in the future in detail, as well as the procedures put in place to make sure that the protocol is followed.
Does this deviation meet IRB reporting requirements?	Enter ‘Yes’ if the deviation meets your site’s local IRB reporting requirements <u>outside of continuing review reporting requirements</u> (e.g., a major protocol deviation). Please review your IRB’s policies to determine local IRB reporting requirements.

Protocol Deviation Report Form

Question	Instructions
	Enter 'No' if the deviation does not meet your site's IRB reporting requirements or only needs to be reported at continuing review.
If yes, date IRB notified:	If 'Yes' to 'Does this deviation meet IRB reporting requirements', enter the date in which the IRB was notified in MM-DD-YYYY format.
Principal Investigator Signature/Date	If the deviation is a major protocol deviation, download a PDF of the form (upper left-hand corner of REDCap), and have the site principal investigator sign and date the form, then e-mail the form to Ashley Sullivan (afsullivan@partners.org) and save a copy for your files. You do not need to send a signed/dated form to the EMNet Coordinating Center unless the deviation is a major protocol deviation.
I confirm that this form is complete	First confirm that the form is complete, and then enter the initials of the hospital/clinic staff member completing the form. If the hospital/clinic staff member does not have a middle name, use X for the middle initial. Example: Jane A. Jones: J A J Sam Smith: S X S

Adverse Event & Serious Adverse Event Case Report Form

Definitions

Adverse Event (AE) - Any occurrence or worsening of an undesirable or unintended sign, symptom, laboratory finding, or disease that is experienced during participation in the study and is related to a study procedure. If a medical condition is present at the time that the study participant is screened will be considered as baseline and not recorded as an adverse event.

Serious Adverse Event (SAE) - Any adverse event that suggests a significant hazard, contraindication, side effect, or precaution.

Throughout the study all adverse events (serious and non-serious) will be recorded on reported on the Adverse Event Form in REDCap. The following tables explain what is required on every field for these forms. Please see Section 7 of the protocol for an explanation of what is considered an AE or SAE.

An adverse event will be followed until any of the following takes place:

- a) it is resolved
- b) participant is stable
- c) a minimum of 30 days after participant is terminated from the study and the NIAID Medical Officer and the study investigators determine that follow-up is complete.

AE & SAE Case Report Form

Question	Instructions
Study ID	<p>This is a unique study identification number used to specify participants and their biological specimens. Each Study ID is made of a 3-digit site specific number followed by a 3-digit individual study participant number.</p> <p>If you are uncertain of your 3-digit site-specific number, email Daphne Suzin (dsuzin@mgh.harvard.edu).</p> <div style="text-align: center;"><p>1 1 1 1 1 1</p><p>Site-specific 3 digit number Study year the child was enrolled (either 1 or 2) Patient number</p></div> <p>The first digit of the 3-digit individual study participant number indicates the year the subject was enrolled (either year 1, 2, or 3); the last two digits specify the number in which this child was enrolled.</p> <p>This Study ID is pre-populated from the REDCap Scheduling Form and appears at the top of the</p>

AE & SAE Case Report Form

Question	Instructions
	form. However, please re-enter the Study ID to confirm that you are in the correct participant record.
Date of Report:	Enter the date in which the adverse event or serious adverse event was reported using the MM-DD-YYYY format.
Date of Event:	Enter the date in which the adverse event or serious adverse event occurred using the MM-DD-YYYY format.
Site	<p>Select your site's name from the drop-down list:</p> <p>APHC: Arnold Palmer Hospital for Children CCHMC: Cincinnati Children's Hospital Medical Center BCH: Boston Children's Hospital CHOP: Children's Hospital of Philadelphia CNMC: Children's National Medical Center Norton: Norton Children's Hospital Mercy: Children's Mercy Hospital & Clinics MGH: Massachusetts General Hospital Texas: Texas Children's Hospital DuPont: Alfred I DuPont Hospital for Children CHLA: Children's Hospital Los Angeles Pittsburgh: Children's Hospital of Pittsburgh Dallas: Children's Medical Center of Dallas Connecticut: Connecticut Children's Medical Center Dell: Dell Children's Medical Center of Central Texas Phoenix: Phoenix Children's Hospital Seattle: Seattle Children's Hospital Saint Francis: Children's Hospital at Saint Francis Off-Site: Local clinician office: Please select this option if the exam location if it is not at one of the sites specified above.</p>
Other (specify)	If 'Off-Site: Local clinician office' selected for 'Site' please enter the name of the exam location.
Site Principal Investigator Name	If the exam took place at one of the m35 enrolling hospitals, enter the site principal investigator's name (first and last name). If the exam too place at another location, enter the lead exam clinician's name (first and last name).
DAIT Protocol Number	The DAIT protocol number is R01AI127507. This number is automatically populated in REDCap.
Protocol Title or Short Name	The protocol title is "Airway microbiome, nasal microRNA, and age 6-year asthma phenotypes in

AE & SAE Case Report Form

Question

Instructions

the MARC-35 cohort.” This title is automatically populated in REDCap.

Attribution of Adverse Event

Study procedure:

Select ‘Nasal Swab’ if the AE/SAE is attributed to the collection of the nasal swab. An example of an AE is epistaxis within 24 hours of the procedure in which bleeding does not subside spontaneously within five minutes.

Select ‘Blood collection’ if the AE/SAE is attributed to the performance of the blood draw. Examples are bruising at the puncture site larger than 2 cm diameter, bleeding from the puncture site lasting more than 5 minutes, or swelling at the puncture site larger than 2 cm.

Select “Other” if the AE/SAE is attributed to an event other than a nasal swab or blood collection.

Please specify ‘other’ study procedure:

If ‘Other (specify)’ selected for ‘Study procedure’ use the free text box to describe in detail the other study procedure that led to an adverse event or serious adverse event.

Complete description of event

Complete description of event:

Use the free text box to describe the AE/SAE in detail.

Action

What steps do you plan to take as a result of the adverse event reported above?

Identify all steps taken as a result of the AE/SAE. Check ALL that apply.

Check ‘No action taken’ if the AE/SAE does not result in any actions taken.

Check ‘Amend protocol’ if the protocol will be changed.

Check ‘Amend consent document’ if the consent forms will be modified.

AE & SAE Case Report Form

Question

Instructions

Check 'Inform current subjects' if the participants will be told that there was an AE.

Check 'Terminate or suspend protocol' if the study will be terminated or suspended.

Check 'Other (specify)' if another type of action is taken.

Please specify 'other' steps which you plan to take as a result of the adverse event reported here

If 'Other (specify)' was checked for 'What steps do you plan to take as a result of the adverse event reported above?', use the text box to describe the other steps in detail.

Investigator assessment of severity

Severity of adverse events will be graded according to the criteria from the National Cancer Institute's common terminology criteria. Select the severity category that applies to the AE or SAE from the categories below.

Grade	Descriptor	Definition
1	Mild	Asymptomatic or mild symptoms; clinical or diagnostic observations only; interventions not indicated.
2	Moderate	Minimal, local or noninvasive intervention indicated; limiting age-appropriate instrumental activities of daily living (ADL).
3	Severe	Severe or medically significant but not immediately life-threatening; hospitalization or prolongation of hospitalization indicated; disabling; limiting self-care ADL.
4	Life threatening	Life-threatening consequences; or urgent intervention indicated.
5	Death	Death related to the AE.

Relationship to study procedure(s)

Select the relationship of the AE or SAE to the study procedure from the following categories.

Code	Descriptor	Definition (guidelines)
1	Unrelated	The adverse event is clearly not related to study. The event is completely related to an etiology other than the study procedures (the alternative etiology must be documented in the study participant's medical record).

AE & SAE Case Report Form

Question	Instructions
2 Unlikely	The adverse event is doubtfully related to study and likely to be related to factors other than study procedures.
3 Possible	The adverse event may be related to study procedure. There is an association between the event and study procedure and there is a plausible mechanism for the event to be related to the study procedure; there may be also an alternative etiology, such as characteristics of the study participant's clinical status and/or underlying disease.
4 Probable	The adverse event is likely related to study procedure. There is (1) an association between the event and the study procedure, (2) a plausible mechanism for the event to be related to the study procedure, and (3) the event could not be reasonably explained by known characteristics of the study participant's clinical status and or an alternative etiology is not apparent.
5 Definite	The adverse event is clearly related to study procedure. There is (1) an association between the event and the study procedure (2) a plausible mechanism for the event to be related to the related to the study procedure, and (3) causes other than the study procedure have been ruled out.
Resolution/stabilization of the event	Select 'Pending' if the event is currently unresolved or not stabilized. Select 'Complete' if the event is resolved and stabilized.
Expectedness	
An adverse event is considered 'unexpected' when its nature, severity, or frequency is not consistent with the information that is provided in the protocol and is related to a study procedure.	
Was this adverse event unexpected?	Select 'Yes' if this adverse event is unexpected. Select 'No' if this adverse event is expected.
Change in Severity	
Note: if after completing this form the severity of adverse event changes, return and record the change here:	Use the text box to record the change in severity of the adverse event, if applicable.

AE & SAE Case Report Form

Question	Instructions
Does this Adverse Event meet IRB reporting requirements?	<p>The site Principal Investigator will ensure the timely dissemination of AE/SAE information, including expedited reports, to the IRB in accordance with local IRB regulations and guidelines. Please review your IRB's policies to determine local IRB reporting requirements.</p> <p>Enter 'Yes' if the adverse event meets IRB reporting requirements.</p> <p>Enter 'No' if the adverse event does not meet IRB reporting requirements.</p>
If yes, date IRB notified:	<p>If 'Yes' selected for 'Does this adverse event meet IRB reporting requirements?' enter the date that the IRB was notified in MM-DD-YYYY format.</p>
<hr/> Adverse Event or Serious Adverse Event <hr/>	
Does this adverse event qualify as a serious adverse event?	<p>Enter "Yes" if the AE qualifies as a serious AE (SAE). If the event is a SAE, it must be reported immediately to Ashley Sullivan (afsullivan@partners.org). Follow the other reporting responsibilities outlined in REDCap.</p> <p>Enter "No" if the event does not qualify as a serious AE.</p>
Site Principal Investigator Signature	Principal Investigator Signature
Site Principal Investigator Date of Signature	Date on which the form was signed.
I confirm that this form is complete.	<p>First confirm that the form is complete, and then enter the initials of the hospital/clinic staff member completing the form.</p> <p>If the hospital/clinic staff member does not have a middle name, use X for the middle initial.</p> <p>Example: Jane A. Jones: J A J Sam Smith: S X S</p>