

## SMOG CLINICAL ADVERSE EVENTS

Subject ID: 10 -    -     
 Subject Initials:        
 Visit Number:     
 Visit Date:    /    /    Month Day Year

(Clinic Coordinator completed)

**Complete this log if the subject experienced any clinical adverse events (including intercurrent events) since the last visit. Check the "None" box if the subject has not experienced any clinical adverse events since the last visit. If "None", sign and date this page.**

CC's Signature: \_\_\_\_\_  
 Date:    /    /    Month Day Year

None

(1000) DESCRIPTION OF ADVERSE EVENT	(1010) ICD9 CODE	(1020) 2. DATE STARTED (Top Line)		(1030) 3. DATE STOPPED (Bottom Line)		(1040) 4. ONGOING at current visit	(1050) 5. DURATION	(1060) 6. TYPE	(1070) 7. SEVERITY	(1080) 8. SERIOUS	(1090) 9. LIKELIHOOD OF RELATIONSHIP TO STUDY DRUG	(1100) 10. CHANGE IN STUDY MEDICATIONS	(1110) 11. OUTCOME (Skip if #3 is missing.)	(1120) 12. TREATMENT REQUIRED	
		MONTH/DAY/YEAR	MONTH/DAY/YEAR	Complete ONLY if duration is less than 24 hours.	HOUR(S)										
---	---	---/---/---	---/---/---	---/---/---	---/---/---	<input type="checkbox"/>	---	1. INTERMITTENT 2. CONTINUOUS	1. MILD 2. MODERATE 3. SEVERE	1. YES 2. NO	1. NONE 2. UNLIKELY (REMOTE) 3. POSSIBLE 4. PROBABLE 5. HIGHLY PROBABLE	1. DISCONTINUED 2. REDUCED 3. INTERRUPTED BUT RESUMED AT CURRENT DOSE 4. UNCHANGED 5. INCREASED	1. COMPLETELY RECOVERED, BUT WITH LASTING EFFECTS 2. RECOVERED, RECOVERED 3. DEATH	1. NONE 2. MEDICATION 3. HOSPITALIZATION 4. OTHER	
---	---	---/---/---	---/---/---	---/---/---	---/---/---	<input type="checkbox"/>	---								
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\* Please complete a Serious Adverse Event Reporting Form (P10\_SERIOUS).

\*\* Please complete the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.

(Technician completed)

1. Serial Number of AM1® being tested \_\_\_\_\_ (1000)
2. Serial Number of turbine being tested \_\_\_\_\_  
(1010) (1020)
3. Test date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (1030)  
month day year
4. Is this a new AM1® device being tested? <sub>1</sub> Yes <sub>0</sub> No (1040)

If **YES**, indicate the primary reason.

- <sub>1</sub> First issuing
- <sub>5</sub> "Old" device was recalled
- <sub>2</sub> "Old" device failed QC testing
- <sub>6</sub> "Old" device was lost
- <sub>3</sub> "Old" device had display problems
- <sub>7</sub> Other (1050)
- <sub>4</sub> "Old" device experienced battery failure

	AM1® (L/Min)	Jones FVC (L/Min)
5. Trial 1 <small>(1060/1070)</small>	_____	_____
6. Trial 2 <small>(1080/1090)</small>	_____	_____
7. Trial 3 <small>(1100/1110)</small>	_____	_____
8. Trial 4 <small>(1120/1130)</small>	_____	_____
9. Trial 5 <small>(1140/1150)</small>	_____	_____

Clinic Use Only	
Relative Bias <small>(AM1 - Jones FVC) * 100 % Jones FVC</small>	Rank <small>smallest to largest</small>
_____ . _____ %	_____
_____ . _____ %	_____
_____ . _____ %	_____
_____ . _____ %	_____
_____ . _____ %	_____

**Clinic Use Only**

Median Relative Bias \_\_\_\_\_ . \_\_\_\_\_ %      Inter-quartile Range \_\_\_\_\_ . \_\_\_\_\_ %

*The Median Relative Bias is the third largest value of the 5 measures of relative bias.*

*The Inter-quartile Range is determined by subtracting the relative bias of rank 2 from the relative bias of rank 4.*

**When a subject receives a new AM1® or turbine for the first time, the median relative bias must be between -15% and +15%, AND the inter-quartile range must be less than 10%.**

**When a subject returns to the clinic with a used AM1®:** (i) subtract the original median relative bias (the median relative bias when the AM1® or turbine was first dispensed) from the current median relative bias, and (ii) subtract the original inter-quartile range (the inter-quartile range when the AM1® or turbine was first dispensed) from the current inter-quartile range. The difference for (i) must be between -5% and +5% and the difference for (ii) must be less than +5% for the AM1® to be reissued to the subject.

10. Did the AM1® pass? <sub>1</sub> Yes <sub>0</sub> No (1160)
11. If **NO**, is this the second test with this turbine at this visit? <sub>1</sub> Yes <sub>0</sub> No (1170)

→ If **NO**, retest the AM1® with the same turbine and complete another AM1® Quality Control form.

→ If **YES**, issue a new turbine and complete another AM1® Quality Control form. If 2 turbines have been tested with this device, issue a new device and turbine and complete another AM1® Quality Control form.

**SMOG  
CLINIC COORDINATOR  
POST-STUDY  
QUESTIONNAIRE**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                   Month      Day      Year  
 Coordinator ID: \_\_\_\_

*(Coordinator completed)*

***This questionnaire is to be completed at Visit 6 and 10 by the ACRN study coordinator who was primarily responsible for the subject's SMOG visits during the preceeding 8 weeks. If a randomized subject terminates prior to Visit 10, this form should be completed at the time of the termination visit.***

1. Subjects in the SMOG study were randomized to receive either an active inhaled steroid inhaler or a placebo inhaler. You were blinded to the actual treatment assignment. Please check the box that most closely represents your feelings about the treatment the subject received, over the past 8 weeks.

- <sub>1</sub> I am certain it was placebo. (1000)  
<sub>2</sub> I think it was probably placebo.  
<sub>3</sub> I have no idea which treatment the subject received, but my best guess would be:

- <sub>1</sub> Placebo  
<sub>2</sub> Active Drug (1010)

- <sub>4</sub> I think it was probably active drug.  
<sub>5</sub> I am certain it was active drug.

2. Subjects in the SMOG study were randomized to receive either an active tablet or a placebo tablet. You were blinded to the actual treatment assignment. Please check the box that most closely represents your feelings about the treatment the subject received, over the past 8 weeks.

- <sub>1</sub> I am certain it was placebo. (1020)  
<sub>2</sub> I think it was probably placebo.  
<sub>3</sub> I have no idea which treatment the subject received, but my best guess would be:

- <sub>1</sub> Placebo  
<sub>2</sub> Active Drug (1030)

- <sub>4</sub> I think it was probably active drug.  
<sub>5</sub> I am certain it was active drug.

Coordinator's Initials: ____ (1040)
Date: ____ / ____ / ____ (1050)

**CLINIC COORDINATOR  
POST-STUDY  
QUESTIONNAIRE**

Subject ID: 1 0 -    -         

Visit Number:      

3. Please comment with respect to any observations you made that helped you to make your choice in Question #1 or #2.

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**SMOG  
CONCOMITANT MEDICATIONS  
for ASTHMA and ALLERGIES**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year

*(Clinic Coordinator completed)*

**At Visit 0:** Please list all concomitant medications used to treat **asthma** and **allergies** that the subject has taken since signing the informed consent. Indicate the name of the medication, dose, units, frequency, route, and start date. Refer to the SMOG Drug Codes module for applicable codes. Check the "None" box if the subject has not taken any **asthma** or **allergy** concomitant medications since signing the informed consent. **Do not list study drugs or RESCUE medications.**

**Subsequent visits:** Please list all concomitant medications, used to treat asthma and allergies, that the subject has started taking since the last visit. Indicate the name of the medication, code, dose/units, frequency, route, start date, and stop date, if applicable. Refer to the SMOG Drug Codes module for applicable codes. Check the "None" box if the subject has not started taking any **asthma** or **allergy** concomitant medications since the last visit. If the subject is still taking the medication at the end of the current visit, please check the "ongoing" box and leave the stop date column blank. **Do not list study drugs or RESCUE medications.**

None

NAME OF MEDICATION <small>(1000)</small>	CODE <small>(1010)</small>	DOSE	UNITS	FREQUENCY <small>(1020)</small>	ROUTE	START DATE <small>(MM/DD/YYYY)</small>			STOP DATE <small>(MM/DD/YYYY)</small>	ONGOING AT CURRENT VISIT <small>(1070)</small>
						<small>(1030)</small>	<small>(1040)</small>	<small>(1050)</small>	<small>(1060)</small>	<input type="checkbox"/>
---						__/__/__			__/__/__	<input type="checkbox"/>
---						__/__/__			__/__/__	<input type="checkbox"/>
---						__/__/__			__/__/__	<input type="checkbox"/>
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**SMOG  
COMPLIANCE  
CHECKLIST**

Subject ID:   1     0   -    -     
 Subject Initials:     
 Visit Number:     
 Visit Date:    /    /     
                     Month      Day      Year  
 Coordinator ID:   

*(Clinic Coordinator completed)*

**Check the following compliance criteria at Visits 3 through 10.**

**1. Tablet count**

- 1a. Total number of tablets dispensed in eDEM™ vial \_\_\_ \_\_\_ pills (1000)
- 1b. Total number of tablets returned in eDEM™ vial \_\_\_ \_\_\_ pills (1010)
- 1c. Total number of prescribed doses \_\_\_ \_\_\_ doses (1020)
- 1d. Actual number of tablets taken (Question #1a - Question #1b) \_\_\_ \_\_\_ pills (1030)
- 1e. Percent compliance =  $\frac{\text{Question \#1d}}{\text{Question \#1c}} \times 100$  \_\_\_ \_\_\_ . \_\_\_ % (1040)

→ If the percent compliance for the Tablet count is less than 85%, re-emphasize the importance of maintaining the daily dosing schedule.

**2. eDEM™ Monitor (Visit 4 ONLY)**

*The information for Question #2a - Question #2d is obtained from the 14 day eDEM™ Monitor Report.*

- 2a. Number of monitored days \_\_\_ \_\_\_ days (1120)
- 2b. Number of doses taken \_\_\_ \_\_\_ doses (1130)
- 2c. % Prescribed number of doses taken \_\_\_ \_\_\_ . \_\_\_ % (1140)
- 2d. Doses in time window/prescribed doses  
(Percent compliance) \_\_\_ \_\_\_ . \_\_\_ % (1150)

→ If the percent compliance for the eDEM™ is less than 85%, the subject is ineligible for study participation.

**3. eDEM™ Monitor**

*At All Visits, the information for Question #3a-3d is obtained from the eDEM™ Monitor Report.*

- 3a. Number of monitored days \_\_\_ \_\_\_ days (1050)
- 3b. Number of doses taken \_\_\_ \_\_\_ doses (1060)
- 3c. % Prescribed number of doses taken \_\_\_ \_\_\_ . \_\_\_ % (1070)
- 3d. Doses in the time window/prescribed doses  
(Percent compliance) \_\_\_ \_\_\_ . \_\_\_ % (1080)

→ If the percent compliance for the eDEM™ is less than 85%, re-emphasize the importance of maintaining the daily dosing schedule.

**SMOG  
COMPLIANCE CHECKLIST**

Subject ID:   1     0   -    -   

Visit Number:      

**4. Doser™ Compliance for Scheduled Inhaler (Visit 4 ONLY)**

The information for Question #4a - #4c is obtained from the last 14 full days prior to Visit 4.

4a. Total number of scheduled puffs. \_\_\_ \_\_\_ \_\_\_ puffs (1160)

→ Value obtained from Question 4 on the P10\_COMPLY\_WKS

4b. Total number of puffs in Doser™ history \_\_\_ \_\_\_ \_\_\_ puffs (1170)

→ Value obtained from Question 5 on the P10\_COMPLY\_WKS

4c. Percent compliance \_\_\_ \_\_\_ \_\_\_ . \_\_\_ % (1180)

→ Value obtained from Question 6 on the P10\_COMPLY\_WKS

→ If the percent compliance for the Doser™ is less than 85%, the subject is ineligible for study participation.

**5. Doser™ Compliance for Scheduled Inhaler**

*At Visits 3-10, if the interval between visits exceeds 30 days, complete Questions #5a-5c using data for the 30 days prior to the visit.*

5a. Total number of scheduled puffs since the last visit \_\_\_ \_\_\_ \_\_\_ puffs (1090)

→ Value obtained from Question 1 on the P10\_COMPLY\_WKS

5b. Total number of puffs in Doser™ history \_\_\_ \_\_\_ \_\_\_ puffs (1100)

→ Value obtained from Question 2 on the P10\_COMPLY\_WKS

5c. Percent compliance \_\_\_ \_\_\_ \_\_\_ . \_\_\_ % (1110)

→ Value obtained from Question 3 on the P10\_COMPLY\_WKS

→ If the percent compliance for the Doser™ is less than 85%, re-emphasize the importance of maintaining the daily dosing schedule.

# SMOG DIARY CARD

Subject's Initials: \_\_\_\_\_  
Date: \_\_\_ / \_\_\_ / \_\_\_\_\_

Subject ID: 1\_0 - \_\_\_ - \_\_\_\_\_

Subject Initials: \_\_\_\_\_

Return Visit Number: \_\_\_\_\_

Return Visit Date: \_\_\_ / \_\_\_ / \_\_\_  
Month Day Year

**To the subject:**

If your peak flow is below \_\_\_\_\_ liters/minute, use your RESCUE inhaler as instructed in the handout "If Your Asthma Gets Worse."  
Contact study personnel if your peak flow does not increase to this value after two hours of RESCUE use, or if you are experiencing extreme symptoms.  
If you have taken more than \_\_\_\_\_ puffs/24 hours for the past 48 hours from your RESCUE inhaler (combined, total puffs), contact study personnel.

<b>Please use black ink to complete.</b>	Day 1: _____	Day 2: _____	Day 3: _____	Day 4: _____	Day 5: _____	Day 6: _____	Day 7: _____
Date <small>(dmonth/day)</small>	___ / ___ month day	___ / ___ month day	___ / ___ month day	___ / ___ month day	___ / ___ month day	___ / ___ month day	___ / ___ month day

**MORNING EVALUATION (Between 5 AM and 10 AM)**

1. Number of times that you woke up last night due to asthma <small>(1000)</small>	___	___	___	___	___	___	___
2. Time of AM Peak Flow (within 15 minutes of awakening) <small>(1010)</small>	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___
3. AM Peak Flow (liters/min)** <small>(1020)/(1025)</small>	___	___	___	___	___	___	___
4. Total number of puff(s) from scheduled inhaler (AM) <small>(1040)</small>	___	___	___	___	___	___	___
<b>Symptoms<sup>++</sup></b> during the night.	5. Shortness of Breath <small>(1050)</small>						
	6. Chest Tightness <small>(1060)</small>						
	7. Wheezing <small>(1070)</small>						
	8. Cough <small>(1080)</small>						
	9. Phlegm/Mucus <small>(1090)</small>						

**NIGHT-TIME EVALUATION (Between 8 PM and 1 AM)**

10. Time of PM Peak Flow (between 8 PM and 1 AM) <small>(1100)</small>	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___	___ : ___
11. PM Peak Flow (liters/min)** <small>(1110)/(1115)</small>	___	___	___	___	___	___	___
12. Total number of puff(s) from scheduled inhaler (PM) <small>(1130)</small>	___	___	___	___	___	___	___
13. Number of pill(s) taken (PM) <small>(1140)</small>	___	___	___	___	___	___	___
<b>Symptoms<sup>++</sup></b> since you woke.	14. Shortness of Breath <small>(1150)</small>						
	15. Chest Tightness <small>(1160)</small>						
	16. Wheezing <small>(1170)</small>						
	17. Cough <small>(1180)</small>						
	18. Phlegm/Mucus <small>(1190)</small>						

**24 HOUR EVALUATION**

19. Total number of puffs from albuterol (RESCUE) inhaler over a 24 hour period. (Do not record preventive use.) <small>(1200)</small>	___	___	___	___	___	___	___
--	-----	-----	-----	-----	-----	-----	-----

\*\* Record the best of three attempts. Circle the value if you have taken any albuterol (RESCUE) inhaler medication in the last two hours.

**++ Symptom Severity Rating Scale**

- 0 = Absent      No symptom
- 1 = Mild        Symptom was minimally troublesome, i.e. not sufficient to interfere with normal daily activity or sleep.
- 2 = Moderate    Symptom was sufficiently troublesome to interfere with normal daily activity or sleep.
- 3 = Severe       Symptom was so severe as to prevent normal activity and/or sleep.



**SMOG  
SCREEN DROPOUT  
(Prior to Visit 1)**

Subject ID: 10 - \_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_\_  
 Visit Number: 0  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year  
 Coordinator ID: \_\_\_\_\_

*(Clinic Coordinator completed)*

**Complete this form only for those subjects who have successfully completed the screening visit and have been terminated or deemed ineligible prior to Visit 1. After the form is completed, fax it immediately to the SMOG Primary Data Manager at the DCC at (717) 531-4359.**

1. Has the subject withdrawn consent? <sub>1</sub> Yes <sub>0</sub> No (1000)  
 If **YES**, indicate the **primary** reason.  
<sub>1</sub> no longer interested in participating  
<sub>2</sub> access to clinic is difficult (location, transportation, parking)  
<sub>3</sub> moving out of the area  
<sub>4</sub> unable to continue in study due to personal constraints  
<sub>5</sub> unable to continue due to medical condition unrelated to asthma  
<sub>6</sub> other \_\_\_\_\_ (1010)
  
2. Is the subject being withdrawn from the study due to a match not being found? <sub>1</sub> Yes <sub>0</sub> No (1020)
  
3. Has the subject been lost to follow-up? <sub>1</sub> Yes <sub>0</sub> No (1030)
  
4. Is the subject withdrawing from the study due to pregnancy? <sub>1</sub> Yes <sub>0</sub> No <sub>9</sub> N/A (1040)  
*(Check N/A if the subject is male.)*
  
5. Is the subject being withdrawn for other reasons? <sub>1</sub> Yes <sub>0</sub> No (1070)  
 If **YES**, describe \_\_\_\_\_

**SIGNATURES**

**Please complete the following section regardless of the reason for termination of study participation.**

I verify that all information collected on the ACRN SMOG data collection forms for this subject is correct to the best of my knowledge and was collected in accordance with the procedures outlined in the ACRN SMOG Protocol.

\_\_\_\_\_  
(1080)  
 Clinic Coordinator Signature

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
(1090)  
month day year

*(Technician completed)*

1. Serial Number of eDEM™ monitor being tested \_\_\_\_\_ (1000)
2. Test date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (1010)  
month day year
3. Record monitor's validity \_\_\_\_\_ . \_\_\_\_\_  
month (1020) year (1030)
4. Record battery voltage \_\_\_\_\_ . \_\_\_\_\_ volts (1040)
5. Is this a new eDEM™ monitor being tested? <sub>1</sub> Yes <sub>0</sub> No (1050)  
 If **YES**, indicate the primary reason.
  - <sub>1</sub> "Old" device was recalled
  - <sub>2</sub> "Old" device experiencing low voltage (< 2.90 volts)
  - <sub>3</sub> "Old" device had downloading problems
  - <sub>4</sub> "Old" device experienced AC adaptor failure
  - <sub>5</sub> "Old" device experienced battery failure
  - <sub>6</sub> "Old" device was lost
  - <sub>7</sub> Other (1060)

6. Did the eDEM™ monitor pass? <sub>1</sub> Yes <sub>0</sub> No (1070)  
 → If **NO**, issue a new eDEM™ monitor and complete another eDEM™ Monitor Quality Control form.

**SMOG  
ELIGIBILITY CHECKLIST 1**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: 1  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                   Month       Day       Year  
 Interviewer ID: \_\_\_\_

*(Subject Interview completed)*

- |  |   |  |
|--|---|--|
| 1. Are you planning to move away from this clinical center in the next 12 months such that your ability to complete the study will be jeopardized?                               | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1000)  |
| 2. Have you used any smokeless tobacco products (chew, snuff) in the past year?  | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1010)  |
| 3. Have you smoked a pipe, cigar, or marijuana in the past year?   | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1020)  |
| 4. Have you had a respiratory tract infection in the past 6 weeks?   | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1030)  |
| 5. Do you work night shift or have an altered day/night cycle for other reasons?   | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1040)  |
| 6. Are you potentially able to bear children?<br>(If subject is male, check N/A and go to Question #7.)  | <input type="checkbox"/> <sub>1</sub> Yes                 | <input type="checkbox"/> <sub>0</sub> No <input type="checkbox"/> <sub>9</sub> N/A<br>(1050) |
| 6a. If <b>YES</b> , are you currently pregnant or lactating?   | <input checked="" type="checkbox"/> <sub>1</sub> Yes      | <input type="checkbox"/> <sub>0</sub> No (1060)  |
| 6b. If <b>YES</b> , are you using one of the approved birth control methods indicated on this reference card?<br><i>(Show subject the Birth Control Methods reference card.)</i> | <input type="checkbox"/> <sub>1</sub> Yes                 | <input checked="" type="checkbox"/> <sub>0</sub> No (1070)                                   |
| 6c. If <b>YES</b> , record results of pregnancy test.  | <input checked="" type="checkbox"/> <sub>1</sub> Positive | <input type="checkbox"/> <sub>2</sub> Negative (1075)  |

7. Is the subject eligible? <b><i>If any of the shaded boxes are filled in, the subject is ineligible.</i></b>  → If NO, please complete the Termination of Study Participation (P10_TERM) form.	<input type="checkbox"/> <sub>1</sub> Yes	<input checked="" type="checkbox"/> <sub>0</sub> No (1080)
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Subject's Initials: \_\_\_\_ (1090)  
 Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (1100)

**SMOG  
ELIGIBILITY CHECKLIST 2**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: 4  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                   Month      Day      Year  
 Coordinator ID: \_\_\_\_

*(Clinic Coordinator completed)*

1. Since Visit 1, has the subject experienced a significant asthma exacerbation as defined in the protocol? <sub>1</sub> Yes <sub>0</sub> No (1000)
2. Since Visit 1, has the subject received treatment with any excluded medications (EXCLDRUG)? <sub>1</sub> Yes <sub>0</sub> No (1010)
3. Using the history stored in the Doser™, did the subject take at least 85% of the required puffs from his or her scheduled inhaler during the last two weeks of the run-in period? <sub>1</sub> Yes <sub>0</sub> No (1020)
4. Using the eDEM™ Monitor, did the subject take at least 85% of the required puffs from his or her eDEM™ Monitor during the last two weeks of the run-in period? <sub>1</sub> Yes <sub>0</sub> No (1030)
5. During the last two weeks of the run-in period, did the subject record both AM and PM peak flow measurements and symptoms on his or her Diary Card (P10\_DIARY) an average of at least six days per week? <sub>1</sub> Yes <sub>0</sub> No (1040)
6. During the last two weeks of the run-in period, did the subject use an average of less than 56 puffs per week from his or her rescue inhaler (albuterol)? <sub>1</sub> Yes <sub>0</sub> No (1050)
7. Does the subject wish to withdraw consent from the study? <sub>1</sub> Yes <sub>0</sub> No (1060)
8. Is there any new information that makes the subject ineligible according to the eligibility criteria?  
If **YES**, describe: \_\_\_\_\_ <sub>1</sub> Yes <sub>0</sub> No (1070)
9. Is there any other reason why this subject should not be included in the study?  
If **YES**, describe: \_\_\_\_\_ <sub>1</sub> Yes <sub>0</sub> No (1080)

10. Is the subject eligible? *If any of the shaded boxes are filled in, the subject is ineligible.* <sub>1</sub> Yes <sub>0</sub> No (1090)

**→ If the subject is eligible and will participate in SMOG, randomize the subject. Otherwise, please complete the Termination of Study Participation (P10\_TERM) form.**

11. Drug Packet Number (record on LOG)

**1 0** - \_\_\_\_ - \_\_\_\_  
 (1100) (1110) (1120)

SMOG  
LONG PHYSICAL EXAM

Subject ID: 1 0 - - - - -

Subject Initials: - - - - -

Visit Number: - - - - -

Visit Date: - - - / - - - / - - -  
Month Day Year

Coordinator ID: - - - - -

(Clinic Coordinator completed)

VITAL SIGNS

*The subject should sit quietly for five minutes before blood pressure measurements are recorded and maintain this position while all vital signs are taken.*

1. Resting blood pressure

\_\_\_\_\_ / \_\_\_\_\_ mm Hg  
systolic (1000) diastolic (1010)

2. Pulse

\_\_\_\_\_ beats/min (1020)

3. Respiratory rate

\_\_\_\_\_ breaths/min (1030)

4. Body temperature

\_\_\_\_\_ . \_\_\_\_\_ ° F (1040)

**LONG PHYSICAL EXAM**

Subject ID:   1     0   -    -   

Visit Number:      

*(Physician completed)*

**Please indicate current physical findings by checking the appropriate boxes below.  
If ABNORMAL, please describe concisely.**

	Not Done	Normal	Abnormal	
6. Hair and Skin	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1080)
7. Lymph nodes	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1090)
8. Eyes (excluding corrective lenses)	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1100)
9. Ears, Nose, and Throat	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1110)
10. Respiratory (excluding asthma)	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1120)
11. Cardiovascular	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1130)
12. Gastrointestinal	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1140)
13. Musculoskeletal	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1150)
14. Neurological	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1160)
15. Mental Status	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1170)
16. Other _____ (check Not Done if non-applicable)	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>0</sub>	_____ (1180)

**PULMONARY AUSCULTATION**

17. Indicate subject's condition. *(Check one box only)*

If applicable, describe sounds:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- <sub>1</sub> No wheezing
- <sub>2</sub> Wheeze on inspiration or expiration
- <sub>3</sub> Adventitious sounds other than wheezing (1190)

Physician/Clinician signature: \_\_\_\_\_ (1200)

Date: \_\_\_ / \_\_\_ / \_\_\_\_\_ (1210)

Time: \_\_\_\_\_ (based on 24-hour clock) (1220)

**SMOG  
MAXIMUM REVERSIBILITY  
TESTING**

Supervisor ID: \_\_\_\_\_

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_\_

Subject Initials: \_\_\_\_\_

Visit Number: 2

Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year

Technician ID: \_\_\_\_\_

(Subject Interview completed)

1. Have you consumed caffeine in the past 6 hours? <sub>1</sub> Yes <sub>0</sub> No (1000)  
**Examples:** Caffeinated colas (Pepsi, Coke), Coffee, Mello-Yello, Mountain Dew, Tea, Barq's Rootbeer, Red Bull
2. Have you used medications with caffeine in the past 6 hours? <sub>1</sub> Yes <sub>0</sub> No (1010)  
**Examples:** Anacin, Darvon compound, Esgic, Excedrin, Fiorinal, Fioricet, No Doz, Norgesic, Vivarin
3. Have you consumed any food containing alcohol or beverages containing alcohol in the past 6 hours? <sub>1</sub> Yes <sub>0</sub> No (1020)
- 4a. Have you used any antihistamines in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1030)
- 4b. Have you used any oral decongestants or cold remedies in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1040)
- 4c. Have you used any nasal steroids in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1050)
- 4d. Have you used a rescue intermediate-acting inhaled beta-agonist [e.g. albuterol (Ventolin or Proventil)] in the past 6 hours? <sub>1</sub> Yes <sub>0</sub> No (1060)
- 4e. Have you taken any other medications (see the EXCLDRUG reference card) to treat your asthma or allergies in the past 6 weeks? <sub>1</sub> Yes <sub>0</sub> No (1100)  
→ **If YES, complete the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.**
5. At this time, is your asthma worse because of recent exposure to triggers (e.g. cold air, smoke, allergens, or recent exercise)? <sub>1</sub> Yes <sub>0</sub> No (1110)
6. Is there any other reason you should not proceed with the pulmonary function testing? <sub>1</sub> Yes <sub>0</sub> No (1120)  
→ **See MOP for washout periods pertaining to other medications.**  
If **YES**, explain \_\_\_\_\_

7. Is the subject eligible to proceed with the pulmonary function testing? <sub>1</sub> Yes <sub>0</sub> No (1130)  
**If any of the shaded boxes are filled in, the subject is NOT eligible for pulmonary function testing.**

→ **If NO, do NOT complete page 2 or 3. Testing should be rescheduled within the visit window.**

MAXIMUM REVERSIBILITY  
TESTING

Subject ID: 1 0 - - - - -

Visit Number: 2

8. (If subject is > 21 years old, do not complete Question #8.)

Height (without shoes) \_\_\_\_\_ . \_\_\_\_\_ inches (1140)

PREBRONCHODILATOR PULMONARY FUNCTION TESTING

(Technician completed)

9. Time spirometry started (based on 24-hour clock) \_\_\_\_\_ (1150)

**The best effort reflects the trial where the sum of FEV<sub>1</sub> and FVC are maximized.**

10. Results of best effort:

10a. FVC \_\_\_\_\_ . \_\_\_\_\_ L (1160)

10b. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1170)

10c. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1180)

10d. PEFr \_\_\_\_\_ . \_\_\_\_\_ L/S (1190)

10e. FEF<sub>25-75</sub> \_\_\_\_\_ . \_\_\_\_\_ L/S (1200)

→ Administer 4 puffs of albuterol and wait 15 minutes.

11. Time albuterol administered (based on 24-hour clock) \_\_\_\_\_ (1210)

12. Subject's FEV<sub>1</sub> after 4 puffs of albuterol

12a. Time spirometry started (based on 24-hour clock) \_\_\_\_\_ (1220)

12b. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1230)

12c. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1240)

→ Administer 2 puffs of albuterol and wait 15 minutes.

13. Time albuterol administered (based on 24-hour clock) \_\_\_\_\_ (1250)



MAXIMUM REVERSIBILITY  
TESTING

Subject ID: 1 0 - - - - -

Visit Number: 2

14. Subject's FEV<sub>1</sub> after additional 2 puffs of albuterol
- 14a. Time spirometry started (*based on 24-hour clock*) \_\_\_\_\_ (1260)
- 14b. FEV<sub>1</sub> \_\_\_\_\_ L (1270)
- 14c. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1280)
- 14d. Percent difference in FEV<sub>1</sub>  $\frac{(\text{Question \#14b} - \text{Question \#12b})}{\text{Question \#12b}} \times 100$  \_\_\_\_\_ % (1290)
- 14e. Is the percent difference from Question #14d  $\leq 5.0\%$ ? <sub>1</sub> Yes <sub>0</sub> No (1300)

**→ If YES, STOP HERE and continue with remaining visit procedures.  
→ If NO, administer 2 puffs of albuterol and wait 15 minutes.**

15. Time albuterol administered (*based on 24-hour clock*) \_\_\_\_\_ (1310)
16. Subject's FEV<sub>1</sub> after last 2 puffs of albuterol
- 16a. Time spirometry started (*based on 24-hour clock*) \_\_\_\_\_ (1320)
- 16b. FEV<sub>1</sub> \_\_\_\_\_ L (1330)
- 16c. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1340)

*(Subject Interview completed)*

**ASTHMA HISTORY**

1. Approximately how old were you when your asthma first appeared? *(Check one box only)*

- <sub>1</sub> less than 10 years old
- <sub>2</sub> 10-19 years old
- <sub>3</sub> 20-29 years old
- <sub>4</sub> 30-39 years old
- <sub>5</sub> 40-49 years old
- <sub>6</sub> 50 years or more
- <sub>8</sub> unknown (1000)

2. How many years have you had asthma? *(Check one box only)*

- <sub>1</sub> less than 1 year
- <sub>2</sub> 1-4 years
- <sub>3</sub> 5-9 years
- <sub>4</sub> 10-14 years
- <sub>5</sub> 15 years or more
- <sub>8</sub> unknown (1010)

3. What season is your asthma the worst? *(Check one box only)*

- <sub>1</sub> Winter
- <sub>2</sub> Spring
- <sub>3</sub> Summer
- <sub>4</sub> Fall
- <sub>5</sub> Same all year (1020)

4. In the last 12 months, how many: *(Enter '00' if none)*

4a. Asthma episodes have you had that required emergency care or an unscheduled office visit?

\_\_\_\_ (1030)

4b. Hospitalizations have you had due to asthma?

\_\_\_\_ (1040)

4c. Courses of oral corticosteroid therapy for asthma (such as prednisone or Medrol) have you taken?

\_\_\_\_ (1050)

5. Have you missed any days of work or school due to asthma in the last 12 months?

- <sub>1</sub> Yes
- <sub>0</sub> No
- <sub>9</sub> N/A (1060)

If **YES**, record your best estimate of the number of days missed.

\_\_\_\_ (1070)

# MEDICAL HISTORY

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_

Visit Number: 1

6. Have any of your immediate blood relatives been told by a physician that they have asthma? (Check the 'N/A' box if the subject does not have siblings or children.)

- |                         |   |  |  |  |
|-------------------------|---|--|--|--|
| 6a. Mother              | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Don't Know | <small>(1080)</small>  |
| 6b. Father              | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Don't Know | <small>(1090)</small>  |
| 6c. Brothers or Sisters | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Don't Know | <input type="checkbox"/> <sub>9</sub> N/A<br><small>(1100)</small> |
| 6d. Child(ren)          | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Don't Know | <input type="checkbox"/> <sub>9</sub> N/A<br><small>(1110)</small> |

## PRIOR ASTHMA TREATMENT

Next, I will read a list of medications. Indicate if you have ever used the medication. If you have, please indicate, to the best of your knowledge, the date last taken.

If Yes, indicate date  
medication was last taken  
month / day / year

- |  |   |  |   |  |
|--|---|--|---|--|
| 7. Short-acting Inhaled Beta-Agonists (MDI)<br><b>(Bronkaid Mist, Duo-Medihaler, Medihaler-Epi, Primatene Mist and others)</b>   | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1120) (1130) (1140) (1150)</small> |
| 8. Intermediate-acting Inhaled Beta-Agonists (MDI)<br><b>(Alupent, Brethaire, Brethine, Bronkometer, Maxair, Metaprel, Proventil, Tornalate, Ventolin, Xopenex and others)</b> | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1160) (1170) (1180) (1190)</small> |
| 9. Long-acting Inhaled Beta-Agonists (MDI)<br><b>(Serevent, Foradil, Advair Diskus)</b>  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1200) (1210) (1220) (1230)</small> |
| 10. Asthma medication via a Nebulizer Machine  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1240) (1250) (1260) (1270)</small> |
| 11. Intermediate-acting Oral Beta-Agonists<br><b>(Alupent, Brethine, Bricanyl, Metaprel, Proventil, Ventolin and others)</b>   | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1280) (1290) (1300) (1310)</small> |
| 12. Long-acting Oral Beta-Agonists<br><b>(Repetabs, Volmax)</b>  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | <u>   </u> / <u>   </u> / <u>   </u><br><small>(1320) (1330) (1340) (1350)</small> |

# MEDICAL HISTORY

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_

Visit Number: 1

If Yes, indicate date  
medication was last taken  
month / day / year

- |   |   |  |   |   |
|---|---|--|---|---|
| 13. Short-acting Oral Theophylline<br><b>(Aminophylline, Slo-Phyllin and others)</b>                                    | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1360)    (1370) (1380)    (1390) |
| 14. Sustained release Oral Theophylline<br><b>(Slo-bid, Theo-Dur, Uniphyll and others)</b>                              | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1400)    (1410) (1420)    (1430) |
| 15. Inhaled Anticholinergic<br><b>(Atrovent, Combivent)</b>   | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1440)    (1450) (1460)    (1470) |
| 16. Anti-allergic Inhaled Medications<br><b>(Intal, Tilade and others)</b>  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1480)    (1490) (1500)    (1510) |
| 17. Anti-allergic Nasal Medications<br><b>(Nasal crom, Astelin and others)</b>  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1520)    (1530) (1540)    (1550) |
| 18. Anti-allergic Oral Medications<br><b>(Allegra, Claritin, Zyrtec, Chlor-Trimeton and others)</b>                     | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1560)    (1570) (1580)    (1590) |
| 19. Oral Steroids<br><b>(Prednisone, Medrol and others)</b>   | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1600)    (1610) (1620)    (1630) |
| 20. Inhaled Steroids<br><b>(Azmacort, Beclovent, Vancertil, AeroBid, Flovent, Pulmicort, Advair Diskus and others)</b>  | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1640)    (1650) (1660)    (1670) |
| 21. Nasal Steroids<br><b>(Beconase, Vancenase, Flonase, Nasacort, Nasalide, Nasarel, Rhinocort, Nasonex and others)</b> | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1680)    (1690) (1700)    (1710) |
| 22. Topical Steroids - Prescription<br><b>(Synalar, Lidex, Dermacin, Fluocinonide and others)</b>                       | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1720)    (1730) (1740)    (1750) |
| 23. Topical Steroids - OTC<br><b>(Hydrocortisone - multiple strengths and products)</b>                                 | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1760)    (1770) (1780)    (1790) |
| 24. Leukotriene Antagonist / 5L0 Inhibitors<br><b>(Accolate, Zylflo, Singulair)</b>                                     | <input type="checkbox"/> <sub>1</sub> Yes | <input type="checkbox"/> <sub>0</sub> No | <input type="checkbox"/> <sub>8</sub> Unknown | ____/____/____<br>(1800)    (1810) (1820)    (1830) |

MEDICAL HISTORY

Subject ID: 1\_0 - - - - -

Visit Number: 1

Have you had any diseases, illnesses, or surgeries related to the following areas?

If Yes, Comment

- 25. Skin <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1840)
- 26. Blood, Lymph, or Immune Systems <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1850)
- 27. Eyes <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1860)
- 28. Ears, Nose, or Throat <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1870)
- 29. Breasts <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1880)
- 30. Endocrine Systems <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1890)
- 31. Lung - other than asthma <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1900)
- 32. Heart and Blood Vessels <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1910)
- 33. Liver or Pancreas <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1920)
- 34. Kidneys or Urinary Tract System <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1930)
- 35. Reproductive System <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1940)
- 36. Stomach or Intestines <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1950)
- 37. Muscles or Bones <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1960)
- 38. Nervous System <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1970)
- 39. Psychiatric <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1980)
- 40. Other \_\_\_\_\_ <sub>1</sub> Yes <sub>0</sub> No \_\_\_\_\_ (1990)

Subject's Initials: \_\_\_\_\_ (2000)

Date: \_\_\_ / \_\_\_ / \_\_\_\_\_ (2010)

**SMOG  
METHACHOLINE CHALLENGE  
TESTING**

Supervisor ID: \_\_\_\_\_

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_\_

Subject Initials: \_\_\_\_\_

Visit Number: \_\_\_\_\_

Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year

Technician ID: \_\_\_\_\_

(Clinic Coordinator completed)

**Complete this form only if the subject has successfully completed the Spirometry Testing (P10\_SPIRO) form.**

1. Has the subject had any severe acute illness in the past 4 weeks? <sub>1</sub> Yes <sub>0</sub> No (1000)

If **YES**, has the subject received permission from the supervising physician to proceed with the methacholine challenge testing?  
Name of physician: \_\_\_\_\_ <sub>1</sub> Yes <sub>0</sub> No (1010)

2. Does the subject have a baseline (pre-diluent) FEV<sub>1</sub> less than 55% of predicted?  
**Use the prebronchodilator FEV<sub>1</sub> value from the P10\_SPIRO form as the baseline reference.** <sub>1</sub> Yes <sub>0</sub> No (1020)

3. Does the subject have a history of urinary retention? <sub>1</sub> Yes <sub>0</sub> No (1025)  
**If YES, the subject may not proceed with the methacholine challenge testing without written medical clearance from the study physician.**  
**If YES, and the subject is not randomized, the subject is ineligible to participate in the study and a Termination of Study Participation (P10\_TERM) form should be completed.**

4. Is there any other reason the subject should not proceed with the methacholine challenge testing? <sub>1</sub> Yes <sub>0</sub> No (1030)  
If **YES**, explain \_\_\_\_\_

5. Is the subject eligible to proceed with the diluent (solution #0) pulmonary function testing for the methacholine challenge? <sub>1</sub> Yes <sub>0</sub> No (1040)  
**If any of the shaded boxes are filled in, the subject is NOT eligible for the methacholine challenge.**

→ **If NO, do NOT complete the rest of this form.**  
If possible, the baseline pulmonary function testing and the methacholine challenge should be rescheduled within the visit window.

**METHACHOLINE CHALLENGE TEST** *(Technician completed)*

**Clinic Use Only**

Use the prebronchodilator FEV<sub>1</sub> value from the P10\_SPIRO form as the baseline reference.

Baseline FEV<sub>1</sub> prior to methacholine challenge

A. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L

B. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted

**Methacholine Reversal Reference Value** Question A x 0.90 = \_\_\_\_\_ . \_\_\_\_\_ L

6. PC<sub>20</sub> \_\_\_\_\_ . \_\_\_\_\_ mg/ml (1050)

6a. Time methacholine challenge was completed \_\_\_\_\_ (1060)  
(based on 24-hour clock)

7. Subject's FEV<sub>1</sub> after standard reversal from methacholine challenge  
*If subject is continuing with sputum induction, standard reversal = 4 puffs albuterol.*  
*If subject is not continuing with sputum induction, standard reversal = 2 puffs albuterol.*

7a. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1070)

7b. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1080)

7c. Time of FEV<sub>1</sub> in Question #6a (based on 24-hour clock) \_\_\_\_\_ (1090)

7d. Was the FEV<sub>1</sub> from Question #6a ≥ the methacholine reversal reference value in the gray box above? <sub>1</sub> Yes <sub>0</sub> No (1100)  
→ **If YES, STOP HERE and continue with remaining visit procedures.**

8. Was additional treatment used in the first hour? <sub>1</sub> Yes <sub>0</sub> No (1110)  
→ **If NO, skip to Question #9.**  
→ **If YES, please complete the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.**

8a. Additional albuterol by MDI <sub>1</sub> Yes <sub>0</sub> No (1120)  
→ **If NO, skip to Question #7b.**

8ai. Number of additional puffs of albuterol administered <sub>1</sub> two <sub>2</sub> four <sub>3</sub> > four (1130)

8b. Nebulized Beta-agonist <sub>1</sub> Yes <sub>0</sub> No (1140)

8c. Subcutaneous epinephrine <sub>1</sub> Yes <sub>0</sub> No (1150)

8d. Implementation of clinic emergency protocol or algorithm <sub>1</sub> Yes <sub>0</sub> No (1160)

8e. Other \_\_\_\_\_ <sub>1</sub> Yes <sub>0</sub> No (1170)

9. Subject's FEV<sub>1</sub> after additional treatment within first hour.

9a. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1180)

9b. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1190)

9c. Time of FEV<sub>1</sub> in Question #8a (based on 24-hour clock) \_\_\_\_\_ (1200)

9d. Was the FEV<sub>1</sub> from Question #8a  $\geq$  the methacholine reversal reference value in the gray box on page 2 of this form?  
 → If YES, STOP HERE and continue with remaining visit procedures.

<sub>1</sub> Yes      <sub>0</sub> No (1210)

10. Was additional treatment used after one hour?  
 → If NO, skip to Question #10.  
 → If YES, please complete the appropriate Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.

<sub>1</sub> Yes      <sub>0</sub> No (1220)

10a. Additional albuterol by MDI  
 → If NO, skip to Question #9b.

<sub>1</sub> Yes      <sub>0</sub> No (1230)

10ai. Number of additional puffs of albuterol administered <sub>1</sub> two      <sub>2</sub> four      <sub>3</sub> > four (1240)

10b. Nebulized Beta-agonist <sub>1</sub> Yes      <sub>0</sub> No (1250)

10c. Subcutaneous epinephrine <sub>1</sub> Yes      <sub>0</sub> No (1260)

10d. Implementation of clinic emergency protocol or algorithm <sub>1</sub> Yes      <sub>0</sub> No (1270)

10e. Treatment in the emergency room <sub>1</sub> Yes      <sub>0</sub> No (1280)

10f. Overnight hospitalization <sub>1</sub> Yes      <sub>0</sub> No (1290)  
 → If YES, please complete the Serious Adverse Event (P10\_SERIOUS) form.

10g. Other \_\_\_\_\_ <sub>1</sub> Yes      <sub>0</sub> No (1300)

11. Subject's final FEV<sub>1</sub> after methacholine challenge.

11a. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1310)

11b. FEV<sub>1</sub>(% predicted) \_\_\_\_\_ % predicted (1320)

11c. Time of FEV<sub>1</sub> from Question #10a (based on 24-hour clock) \_\_\_\_\_ (1330)

11d. Was the FEV<sub>1</sub> from Question #10a  $\geq$  the methacholine reversal reference value in the gray box on page 2 of this form?  
 → If NO, complete the source documentation box below.

<sub>1</sub> Yes      <sub>0</sub> No (1340)

Physician signature: _____ (1350)
Date: ___ / ___ / _____ (1360)
Time: _____ (based on 24-hour clock) (1370)



**SMOG**  
**SCREENING FORM**

Subject ID: 10 - \_\_\_\_ - \_\_\_\_  
Subject Initials: \_\_\_\_  
Visit Number: 0  
Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                                  Month      Day      Year  
Coordinator ID: \_\_\_\_

*(Clinic Coordinator completed)*

**ADMINISTRATIVE**

1. *Did the subject sign the Informed Consent?*  <sub>1</sub> Yes  <sub>0</sub> No (1000)
- 1a. If **YES**, record the date the form was signed. \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (1010)  
                                  month      day      year  
→ *Consent should be reviewed and signed on the day Visit 0 is performed.*

**DEMOGRAPHICS**

2. Record subject's date of birth. \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (1020)  
                                  month      day      year
- 2a. Is the subject between 18 and 50, inclusive?  <sub>1</sub> Yes  <sub>0</sub> No (1030)
3. Subject's gender  <sub>1</sub> Male  <sub>2</sub> Female (1040)
4. Subject's Race and Ethnicity (*Ask the subject which category best describes him or her.*)
- 4a. Subject's ethnic background  <sub>1</sub> Hispanic or Latino  <sub>2</sub> Not Hispanic or Latino (1042)  
*(Check one box only.)*
- 4b. Subject's racial background
- 4bi. American Indian or Alaskan Native  <sub>1</sub> Yes  <sub>0</sub> No (1046)
- 4bii. Asian  <sub>1</sub> Yes  <sub>0</sub> No (1047)
- 4biii. Black or African American  <sub>1</sub> Yes  <sub>0</sub> No (1048)
- 4biv. White  <sub>1</sub> Yes  <sub>0</sub> No (1049)
- 4bv. Native Hawaiian or Other Pacific Islander  <sub>1</sub> Yes  <sub>0</sub> No (1050)
- 4bvi. Other \_\_\_\_\_  <sub>1</sub> Yes  <sub>0</sub> No (1051)

**MEDICAL HISTORY**

5. Does the subject have current evidence of any of the conditions listed on the Exclusionary Medical Conditions reference card (EXCLMED)?  <sub>1</sub> Yes  <sub>0</sub> No (1060)  
If **YES**, describe \_\_\_\_\_





# SCREENING FORM

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_\_Visit Number: 0

21. Have you used any antihistamines in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1252)
22. Have you used any oral decongestants or cold remedies in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1253)
23. Have you used any nasal steroids in the past 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1254)
24. Have you used a rescue intermediate-acting inhaled beta-agonist [e.g. albuterol (Ventolin or Proventil)] in the past 6 hours? <sub>1</sub> Yes <sub>0</sub> No (1256)
25. At this time, is your asthma worse because of recent exposure to triggers (e.g. cold air, smoke, allergens, or recent exercise)? <sub>1</sub> Yes <sub>0</sub> No (1257)
26. Is there any other reason you should not proceed with the pulmonary function testing? <sub>1</sub> Yes <sub>0</sub> No (1258)

→ See MOP for washout periods pertaining to other medications.

If YES, explain \_\_\_\_\_  
\_\_\_\_\_

**Perform spirometry and record the results from the best effort.  
The best effort reflects the trial where the sum of FEV<sub>1</sub> and FVC is maximized.**

27. Supervisor ID \_\_\_\_\_ (1260)
28. Technician ID \_\_\_\_\_ (1270)
29. Time spirometry started (based on a 24-hour clock) \_\_\_\_\_ (1275)
30. Spirometry results:
- 30a. FVC \_\_\_\_\_ . \_\_\_\_\_ L (1280)
- 30b. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1290)
- 30c. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1300)
- 30d. Is the subject's FEV<sub>1</sub> ≥ 70% and ≤ 90% of predicted? <sub>1</sub> Yes <sub>0</sub> No (1310)

## DIFFUSING CAPACITY FOR CARBON MONOXIDE TEST

31. D<sub>L</sub>CO \_\_\_\_\_ . \_\_\_\_\_ % predicted (1320)
32. Does the subject have a D<sub>L</sub>CO ≥ 80% predicted? <sub>1</sub> Yes <sub>0</sub> No (1330)

**To qualify for the SMOG study, the subject will need EITHER a  $\geq 12\%$  increase in FEV<sub>1</sub> in response to aerosolized albuterol during reversibility testing, or a methacholine PC<sub>20</sub> value  $\leq 8$  mg/ml.**

**SOURCE DOCUMENTATION**

33. Does the subject have source documentation of a  $\geq 12\%$  increase in FEV<sub>1</sub> in response to aerosolized albuterol (any spirometry system) within the past 6 months? <sub>1</sub> Yes <sub>0</sub> No (1340)

**→ If YES, record values below and proceed to Question #39:**

Prebronchodilator FEV<sub>1</sub> \_\_\_\_ . \_\_\_\_ \_\_\_\_ L (1350)

Postbronchodilator FEV<sub>1</sub> \_\_\_\_ . \_\_\_\_ \_\_\_\_ L (1360)

Date of source documentation \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (1370)  
month day year

**→ If NO, go to Question #34.**

34. Does the subject have source documentation of a methacholine PC<sub>20</sub>  $\leq 8$  mg/ml (ACRN system only) within the past 6 months? <sub>1</sub> Yes <sub>0</sub> No (1380)

**→ If YES, record values below and proceed to Question #39:**

PC<sub>20</sub> \_\_\_\_ . \_\_\_\_ \_\_\_\_ mg/ml (1390)

Date of source documentation \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (1400)  
month day year

**If the subject does not have source documentation of reversibility or methacholine PC<sub>20</sub> perform EITHER a Methacholine Challenge or Reversibility Testing.**

**METHACHOLINE at Visit 0:**

35. Supervisor ID \_\_\_\_\_ (1410)

36. Technician ID \_\_\_\_\_ (1420)

37. Methacholine results:

37a. PC<sub>20</sub> \_\_\_\_\_ . \_\_\_\_ \_\_\_\_ mg/ml (1430)

37b. Time methacholine challenge was completed (based on a 24-hour clock) \_\_\_\_\_ (1440)

37c. Is the subject's PC<sub>20</sub> value  $\leq 8$  mg/ml? <sub>1</sub> Yes <sub>0</sub> No (1450)

# SCREENING FORM

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_\_

Visit Number: 0

## REVERSIBILITY TESTING at Visit 0:

38. Did the subject demonstrate a  $\geq 12\%$  increase in response to aerosolized albuterol during reversibility testing at Visit 0?

<sub>1</sub> Yes

<sub>0</sub> No (1460)

39. Is the subject eligible for the SMOG study?

<sub>1</sub> Yes

<sub>0</sub> No (1470)

*If any of the shaded boxes are filled in, or the subject does not have either a  $\geq 12\%$  increase in  $FEV_1$  in response to aerosolized albuterol during reversibility testing, or a methacholine  $PC_{20}$  value  $\leq 8$  mg/ml, the subject is ineligible.*

**→ If YES, proceed with the P10\_GAMATCH form and blood sampling procedures.**

### Screening Source Documentation

Subject's Initials: \_\_\_\_\_ (1480)

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_ (1490)

**SMOG  
SERIOUS ADVERSE  
EVENT REPORTING FORM**

Subject ID:   1     0   -    -     
 Subject Initials:     
 Visit Number:     
 Current Date:    /    /     
                   Month      Day      Year  
 Coordinator ID:   

*(Clinic Coordinator completed)*

***This form must be faxed to the DCC at (717) 531-4359 and the Project Scientist at NHLBI within 72 hours of notification of a serious event. Also fax the Clinical Adverse Events form (P10\_AECLIN), the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form, and any relevant source documents.***

- 1. Date of Adverse Event    /    /    (1000)  
month day year
- 2. Description of Adverse Event (ICD9 Code)    .    (1010)  
Describe: \_\_\_\_\_
- 3. Time interval between taking the study drug (last dose before symptoms) and subsequent onset of symptoms.    (1020)
- 4. Unit of time for above interval 
 <sub>1</sub> second(s)  
 <sub>2</sub> minute(s)  
 <sub>3</sub> hour(s)  
 <sub>4</sub> day(s) (1030)
- 5. Why was the event serious?  
  - 5a. Fatal Event?  <sub>1</sub> Yes  <sub>0</sub> No (1040)
  - 5b. Life-threatening event?  <sub>1</sub> Yes  <sub>0</sub> No (1050)
  - 5c. Inpatient hospitalization required?  
**→ If NO, skip to Question #5d.**  <sub>1</sub> Yes  <sub>0</sub> No (1060)
    - 5c1. Admission date    /    /    (1070)  
month day year
    - 5c2. Discharge date    /    /    (1080)  
month day year
  - 5d. Hospitalization prolonged?  <sub>1</sub> Yes  <sub>0</sub> No (1090)
  - 5e. Disabling or incapacitating?  <sub>1</sub> Yes  <sub>0</sub> No (1100)
  - 5f. Overdose?  <sub>1</sub> Yes  <sub>0</sub> No (1110)
  - 5g. Cancer?  <sub>1</sub> Yes  <sub>0</sub> No (1120)
  - 5h. Congenital anomaly?  <sub>1</sub> Yes  <sub>0</sub> No (1130)
  - 5i. Serious laboratory abnormality with clinical symptoms?  <sub>1</sub> Yes  <sub>0</sub> No (1140)
  - 5j. Other \_\_\_\_\_  <sub>1</sub> Yes  <sub>0</sub> No (1150)

**SERIOUS ADVERSE EVENT**

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_

Visit Number: \_\_\_\_

6. What, in your opinion, caused the event?

6a. Toxicity of study drug(s)?

<sub>1</sub> Yes

<sub>0</sub> No (1160)

6b. Withdrawal of study drug(s)?

<sub>1</sub> Yes

<sub>0</sub> No (1170)

6c. Concurrent medication?

If **YES**, describe \_\_\_\_\_

<sub>1</sub> Yes

<sub>0</sub> No (1180)

6d. Concurrent disorder?

If **YES**, describe \_\_\_\_\_

<sub>1</sub> Yes

<sub>0</sub> No (1190)

6e. Other event?

If **YES**, describe \_\_\_\_\_

<sub>1</sub> Yes

<sub>0</sub> No (1200)

**DO NOT ENTER QUESTIONS #7 - 8: FOR REPORTING PURPOSES ONLY.**

7. If subject died, cause of death: \_\_\_\_\_  
\_\_\_\_\_

8. Was an autopsy performed?

<sub>1</sub> Yes

<sub>0</sub> No

*If YES, attach report or send as soon as possible.*

**REPORTING INVESTIGATOR:**

Comments (discuss any relevant laboratory data or other assessments which help explain the event):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_





URINE PREGNANCY TEST

5. (Complete Question #5 for Visits 4, 6, 8 Only.)

Pregnancy test results

(Check N/A if subject is male or unable to bear children.)

1 Positive

2 Negative

9 N/A (1080)

→ If pregnancy test results are positive, subject must be terminated from study participation.  
Complete a P10\_TERM form and follow study termination procedures.

Pregnancy Test Source Documentation

Subject's Initials: - - - - (1090)

Date: - - / - - / - - - - - (1100)

**SMOG  
SIGNIFICANT ASTHMA  
EXACERBATION**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                   Month      Day      Year  
 Coordinator ID: \_\_\_\_

*(Clinic Coordinator completed)*

***This form must be completed each time a subject experiences an asthma exacerbation according to the definition below.***

1. Did the subject experience an increase in cough, phlegm/mucus, chest tightness, wheezing, or shortness of breath along with any of the following conditions?
  - 1a. An increase in rescue inhaler use of  $\geq 8$  puffs per 24 hours over baseline rescue inhaler use for a period of 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1000)
  - 1b. Use of rescue inhaler  $\geq 16$  total puffs per 24 hours for a period of 48 hours? <sub>1</sub> Yes <sub>0</sub> No (1010)
  - 1c. A fall in prebronchodilator PEFR to  $\leq 65\%$  of baseline? <sub>1</sub> Yes <sub>0</sub> No (1020)
  - 1d. Symptoms persisting after 60 minutes of rescue treatment? <sub>1</sub> Yes <sub>0</sub> No (1030)
2. Were oral or parenteral corticosteroids given to the subject for his/her asthma exacerbation as a result of rescue intervention or by the opinion of the treating physician? <sub>1</sub> Yes <sub>0</sub> No (1040)

3. Did the subject experience a significant asthma exacerbation? <sub>1</sub> Yes <sub>0</sub> No (1050)  
***If any of the shaded boxes are filled in, the subject experienced a SIGEX.***

***→ If YES, but the subject has not yet been randomized, complete this form, then STOP. The subject is ineligible for the study; please complete the Termination of Study Participation (P10\_TERM) form. If the subject has experienced a significant asthma exacerbation and has been randomized, please complete this form and continue with the treatment failure packet.***

***→ If NO, STOP HERE. DO NOT SUBMIT THIS FORM TO THE DCC.***

**SIGNIFICANT ASTHMA  
EXACERBATION**

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_

Visit Number: \_\_\_\_

4. Date of significant asthma exacerbation \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (1060)  
*month day year*

5. Did the subject seek care for the asthma exacerbation? <sub>1</sub> Yes <sub>0</sub> No (1070)  
**→ If NO, skip to Question #8.**

6. What type of care was sought?

6a. Study Investigator? <sub>1</sub> Yes <sub>0</sub> No (1080)

If **YES**, indicate type of contact.

- <sub>1</sub> Scheduled clinic visit
- <sub>2</sub> Unscheduled clinic visit
- <sub>3</sub> Phone contact (1090)

6b. Primary Care or Other Physician? <sub>1</sub> Yes <sub>0</sub> No (1100)

Name of physician: \_\_\_\_\_

If **YES**, indicate type of contact.

- <sub>1</sub> Scheduled clinic visit
- <sub>2</sub> Unscheduled clinic visit
- <sub>3</sub> Phone contact (1110)

6c. Emergency Room visit? <sub>1</sub> Yes <sub>0</sub> No (1120)  
Name of hospital: \_\_\_\_\_

7. Was the subject hospitalized? <sub>1</sub> Yes <sub>0</sub> No (1130)

**→ If YES, please complete the Serious Adverse Event (P10\_SERIOUS) form .**

If **YES**,

7a. Name of hospital: \_\_\_\_\_

7b. Duration of hospital stay? \_\_\_\_\_ days (1140)

7c. Was intubation or ventilation assistance required? <sub>1</sub> Yes <sub>0</sub> No (1150)

8. Did the asthma exacerbation require treatment with inhaled, oral, or intravenous glucocorticoids? <sub>1</sub> Yes <sub>0</sub> No (1160)

**→ If YES, please complete the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.**

9. Was the asthma exacerbation resolved solely by increasing PRN use of the rescue inhaler? <sub>1</sub> Yes <sub>0</sub> No (1170)

**SIGNIFICANT ASTHMA  
EXACERBATION**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_

Visit Number: \_\_\_\_

10. Was the asthma exacerbation treated as outlined in the protocol?

<sub>1</sub> Yes      <sub>0</sub> No (1180)

If **NO**, describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Was the significant asthma exacerbation related to the routine pulmonary function testing? *(Check one box only)*

<sub>1</sub> Definitely related  
<sub>2</sub> Probably related  
<sub>3</sub> Relationship undetermined  
<sub>4</sub> Probably not related  
<sub>5</sub> Definitely not related (1190)

12. Was the significant asthma exacerbation related to the methacholine challenge testing? *(Check one box only)*

<sub>1</sub> Definitely related  
<sub>2</sub> Probably related  
<sub>3</sub> Relationship undetermined  
<sub>4</sub> Probably not related  
<sub>5</sub> Definitely not related (1200)

13. Was the significant asthma exacerbation related to the sputum induction procedure? *(Check one box only)*

<sub>1</sub> Definitely related  
<sub>2</sub> Probably related  
<sub>3</sub> Relationship undetermined  
<sub>4</sub> Probably not related  
<sub>5</sub> Definitely not related (1210)

**SMOG  
ALLERGY SKIN TEST RESULTS**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
Subject Initials: \_\_\_\_  
Visit Number: 1  
Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year  
Coordinator ID: \_\_\_\_

(Clinic Coordinator completed)

A. Has the subject had a previous skin test using ACRN procedures within three years of the visit date?

<sub>1</sub> Yes  <sub>0</sub> No (1000)

If **YES**,

Date of previous skin test

\_\_\_\_ / \_\_\_\_ / \_\_\_\_ (1010)  
month day year

ID of coordinator who performed the skin test

\_\_\_\_ (1020)

**If the subject had a previous ACRN skin test within three years of the visit date, attach a photocopy of the previous skin test form to this form.**

**At the time of data entry, enter section A from this form and then enter the data recorded on the photocopy.**

**If any of the medications listed in the skin test section of the ACRN Manual of Operations were taken within the exclusionary periods, reschedule the skin testing procedure.**

B. Skin test site

<sub>1</sub> back  
 <sub>2</sub> forearm (1030)

Method

<sub>1</sub> prick  
 <sub>2</sub> puncture (1040)

Time test sites pricked/punctured (based on 24-hour clock)

\_\_\_\_ (1050)

Time test sites evaluated (based on 24-hour clock)

\_\_\_\_ (1060)

# ALLERGY SKIN TEST RESULTS

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_\_

Visit Number: 1

A reaction is defined as a wheal of at least 3 mm in diameter and an erythema at least 10 mm in diameter. For each allergen, indicate whether there was a reaction. If yes, transfer the tracing of each wheal and record the longest diameter and the diameter at the perpendicular midpoint in mm.

1. Diluting Fluid	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1070)</small> Largest Wheal <small>(1080)</small> Diameter _____ mm Perpendicular Wheal <small>(1090)</small> Diameter _____ mm	8. Alternaria	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1280)</small> Largest Wheal <small>(1290)</small> Diameter _____ mm Perpendicular Wheal <small>(1300)</small> Diameter _____ mm
2. Tree Mix	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1100)</small> Largest Wheal <small>(1110)</small> Diameter _____ mm Perpendicular Wheal <small>(1120)</small> Diameter _____ mm	9. Cladosporium	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1310)</small> Largest Wheal <small>(1320)</small> Diameter _____ mm Perpendicular Wheal <small>(1330)</small> Diameter _____ mm
3. Grass Mix	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1130)</small> Largest Wheal <small>(1140)</small> Diameter _____ mm Perpendicular Wheal <small>(1150)</small> Diameter _____ mm	10. Aspergillus	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1340)</small> Largest Wheal <small>(1350)</small> Diameter _____ mm Perpendicular Wheal <small>(1360)</small> Diameter _____ mm
4. Ragweed	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1160)</small> Largest Wheal <small>(1170)</small> Diameter _____ mm Perpendicular Wheal <small>(1180)</small> Diameter _____ mm	11. D. Farinae	Was there a reaction? <input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <small>(1370)</small> Largest Wheal <small>(1380)</small> Diameter _____ mm Perpendicular Wheal <small>(1390)</small> Diameter _____ mm

# ALLERGY SKIN TEST RESULTS

Subject ID: 1\_0 - \_\_\_\_ - \_\_\_\_\_

Visit Number: 1

5. Weed Mix	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1190)</small></p> <p>Largest Wheal  <small>(1200)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1210)</small>            Diameter _____ mm</p>	12. D. Pteryx	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1400)</small></p> <p>Largest Wheal  <small>(1410)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1420)</small>            Diameter _____ mm</p>
6. Dogs	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1220)</small></p> <p>Largest Wheal  <small>(1230)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1240)</small>            Diameter _____ mm</p>	13. Cockroach	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1430)</small></p> <p>Largest Wheal  <small>(1440)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1450)</small>            Diameter _____ mm</p>
7. Cats	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1250)</small></p> <p>Largest Wheal  <small>(1260)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1270)</small>            Diameter _____ mm</p>	14. Histamine	<p>Was there a reaction?  <input type="checkbox"/> <sub>0</sub> No  <input type="checkbox"/> <sub>1</sub> Yes  <small>(1460)</small></p> <p>Largest Wheal  <small>(1470)</small>            Diameter _____ mm</p> <p>Perpendicular Wheal  <small>(1480)</small>            Diameter _____ mm</p>



**SMOG  
SPIROMETRY TESTING**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                     Month           Day           Year  
 Technician ID: \_\_\_\_

Supervisor ID: \_\_\_\_\_

(Subject Interview completed)

1. Have you consumed caffeine in the past 6 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1000)  
*Examples: Caffeinated colas (Pepsi, Coke), Coffee, Mello-Yello, Mountain Dew, Tea, Barq's Rootbeer, Red Bull*
2. Have you used medications with caffeine in the past 6 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1010)  
*Examples: Anacin, Darvon compound, Esgic, Excedrin, Fiorinal, Fioricet, No Doz, Norgesic, Vivarin*
3. Have you consumed any food containing alcohol or beverages containing alcohol in the past 6 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1020)
- 4a. Have you used any antihistamines in the past 48 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1030)
- 4b. Have you used any oral decongestants or cold remedies in the past 48 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1040)
- 4c. Have you used any nasal steroids in the past 48 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1050)
- 4d. Have you used a rescue intermediate-acting inhaled beta-agonist [e.g. albuterol (Ventolin or Proventil)] in the past 6 hours?  <sub>1</sub> Yes  <sub>0</sub> No (1060)
- 4e. Have you taken any other medications (see the EXCLDRUG reference card) to treat your asthma or allergies in the past 6 weeks?  <sub>1</sub> Yes  <sub>0</sub> No (1100)  
**→ If YES, complete the Concomitant Medications for Asthma and Allergies (P10\_CMED\_AS) form.**
5. At this time, is your asthma worse because of recent exposure to triggers (e.g. cold air, smoke, allergens, or recent exercise)?  <sub>1</sub> Yes  <sub>0</sub> No (1110)
6. Is there any other reason you should not proceed with the pulmonary function testing?  <sub>1</sub> Yes  <sub>0</sub> No (1120)

If YES, explain \_\_\_\_\_  
 \_\_\_\_\_

7. Is the subject eligible to proceed with the pulmonary function testing?  <sub>1</sub> Yes  <sub>0</sub> No (1130)  
**If any of the shaded boxes are filled in, the subject is NOT eligible for pulmonary function testing.**

**→ If NO, do NOT complete page 2. Testing should be rescheduled within the visit window.**

# SPIROMETRY TESTING

Subject ID: 10 - - - - -

Visit Number: - - -

8. *(If subject is > 21 years old, do not complete Question #8.)*

Height (*without shoes*)

\_\_\_\_\_ . \_\_\_\_\_ inches (1140)

## PREBRONCHODILATOR PULMONARY FUNCTION TESTING

*(Technician completed)*

9. Time spirometry started (*based on 24-hour clock*)

\_\_\_\_\_ : \_\_\_\_\_ (1150)

*The best effort reflects the trial where the sum of FEV<sub>1</sub> and FVC is maximized.*

10. Results of best effort:

10a. FVC

\_\_\_\_\_ . \_\_\_\_\_ L (1160)

10b. FEV<sub>1</sub>

\_\_\_\_\_ . \_\_\_\_\_ L (1170)

10c. FEV<sub>1</sub> (% predicted)

\_\_\_\_\_ % predicted (1180)

10d. PEF<sub>R</sub>

\_\_\_\_\_ . \_\_\_\_\_ L/S (1190)

10e. FEF<sub>25-75</sub>

\_\_\_\_\_ . \_\_\_\_\_ L/S (1200)

SMOG  
SPUTUM INDUCTION  
LAB VALUES

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Read Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Month Day Year  
 Technician ID: \_\_\_\_

(Technician completed)

**Total and Differential Cell Counts**

1. Total Cell Count \_\_\_\_\_ . \_\_\_\_\_ x 10<sup>5</sup>/ml (1000)  
 2. Squamous Cells \_\_\_\_\_ . \_\_\_\_\_ % (1010)

3. Did the subject's sputum sample reveal ≥ 80% squamous cells? <sub>1</sub> Yes <sub>0</sub> No (1020)

→ If NO, please complete Question #4 through Question #9 and send the sputum sample for overreading.

→ If YES, STOP HERE and do not send the sputum sample for overreading.

*The parameters below are calculated following exclusion of squamous cells.*

4. Total Cell Count \_\_\_\_\_ . \_\_\_\_\_ x 10<sup>5</sup>/ml (1030)  
 5. Epithelial Cells \_\_\_\_\_ . \_\_\_\_\_ % (1040)  
 6. Macrophages \_\_\_\_\_ . \_\_\_\_\_ % (1050)  
 7. Neutrophils \_\_\_\_\_ . \_\_\_\_\_ % (1060)  
 8. Eosinophils \_\_\_\_\_ . \_\_\_\_\_ % (1070)  
 9. Lymphocytes \_\_\_\_\_ . \_\_\_\_\_ % (1080)

SMOG  
SPUTUM INDUCTION  
UCSF OVER-READ

Subject ID: 1 0 - - - - -  
Subject Initials: - - - - -  
Visit Number: - - - - -  
Visit Date: - - - / - - - / - - -  
Month Day Year  
Technician ID: - - - - -

(Technician completed)

1. Date of Over-Read

- - - / - - - / - - -  
month day year (1000)

2. Is the slide quality acceptable?

<sub>1</sub> Yes <sub>0</sub> No (1010)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Total and Differential Cell Counts**

3. Squamous Cells

\_\_\_\_\_ . \_\_\_\_\_ % (1020)

*The parameters below are calculated following exclusion of squamous cells.*

4. Epithelial Cells

\_\_\_\_\_ . \_\_\_\_\_ % (1030)

5. Macrophages

\_\_\_\_\_ . \_\_\_\_\_ % (1040)

6. Neutrophils

\_\_\_\_\_ . \_\_\_\_\_ % (1050)

7. Eosinophils

\_\_\_\_\_ . \_\_\_\_\_ % (1060)

8. Lymphocytes

\_\_\_\_\_ . \_\_\_\_\_ % (1070)

SMOG  
SPUTUM INDUCTION

Subject ID: 1 0 - - - - -

Subject Initials: - - - - -

Visit Number: - - - - -

Visit Date: - - - - / - - - - / - - - -  
Month Day Year

Technician ID: - - - - -

Supervisor ID: - - - - -

(Technician completed)

1. (If Visit 4, do not complete Question #1)

At Visit 4, was the subject able to continue sputum induction for more than 4 minutes and able to produce a satisfactory induced sputum sample (< 80% squamous cells)

<sub>1</sub> Yes <sub>0</sub> No (1000)

2. Did the subject complete the methacholine challenge?

<sub>1</sub> Yes <sub>0</sub> No (1010)

→ If YES, complete Question #3.

→ If NO, skip to Question #4.

3. (For subjects who completed the methacholine challenge)

3a. Subject's FEV<sub>1</sub> after reversal from methacholine challenge

\_\_\_ . \_\_\_ L (1020)

3b. Subject's FEV<sub>1</sub> (% predicted) after reversal from methacholine challenge

\_\_\_ \_\_\_ % predicted (1030)

3c. Was the subject's FEV<sub>1</sub> from Question #3a ≥ the methacholine reversal reference value on page 2 of the P10\_METHA form?

<sub>1</sub> Yes <sub>0</sub> No (1040)

→ Skip to Question #5.

4. (For subjects who did NOT complete the methacholine challenge)

4a. Subject's FEV<sub>1</sub> 15 minutes after 4 puffs of albuterol

\_\_\_ . \_\_\_ L (1050)

4b. Subject's FEV<sub>1</sub> 15 minutes after 4 puffs of albuterol (% predicted)

\_\_\_ \_\_\_ % predicted (1060)

5. Was the subject's FEV<sub>1</sub> (% predicted) from Question #3b or Question #4b ≥ 60% predicted?

<sub>1</sub> Yes <sub>0</sub> No (1070)

6. Is there any other reason the subject should not proceed with sputum induction?

<sub>1</sub> Yes <sub>0</sub> No (1080)

If YES, explain \_\_\_\_\_

7. Is the subject eligible for sputum induction? <sub>1</sub> Yes <sub>0</sub> No (1090)  
*If any of the shaded boxes are filled in, the subject is NOT eligible for sputum induction.*

→ If NO, do NOT complete the rest of this form.

8. (If Visit 4, do not complete Question #8.)

What was the duration of sputum induction the first time it exceeded 4 minutes, not including current visit? \_\_\_\_\_ . \_\_\_\_\_ minutes (1100)  
*(Duration of sputum induction at current visit should not exceed this.)*

9. Subject's FEV<sub>1</sub> immediately after completion of sputum induction

9a. FEV<sub>1</sub> \_\_\_\_\_ . \_\_\_\_\_ L (1110)

9b. FEV<sub>1</sub> (% predicted) \_\_\_\_\_ % predicted (1120)

9c. Time of FEV<sub>1</sub> in Question #9a (based on 24-hour clock) \_\_\_\_\_ (1130)

9d. Percent difference in FEV<sub>1</sub>  $\frac{(\text{Question \#3a or \#4a} - \text{Question \#9a})}{\text{Question \#3a or \#4a}} \times 100$  \_\_\_\_\_ . \_\_\_\_\_ % (1140)

10. Duration of sputum induction at this visit \_\_\_\_\_ . \_\_\_\_\_ minutes (1150)

11. Volume of sputum sample at this visit \_\_\_\_\_ . \_\_\_\_\_ ml (1160)

12. Did the subject tolerate sputum induction for > 4 minutes at this visit? <sub>1</sub> Yes <sub>0</sub> No (1170)

13. Is the sample adequate for analysis of squamous cells? <sub>1</sub> Yes <sub>0</sub> No (1180)  
*If the shaded box in Question #12 is filled in, the sputum sample is not adequate and should not be sent for analysis of squamous cell counts.*

14. Did the subject's FEV<sub>1</sub> immediately after completion of sputum induction drop > 20% (from post-albuterol baseline) as indicated in Question #9d? <sub>1</sub> Yes <sub>0</sub> No (1190)

→ If YES, proceed with Question #15 on the next page.

→ If NO, STOP HERE and continue with remaining visit procedures.

**Complete page 3 only if the subject has a fall in FEV<sub>1</sub> (from post-albuterol baseline) of > 20% during or immediately after sputum induction.**

*Clinic Use Only*

*Sputum Induction*  
 Reversal Reference Value (Question #3a or Question #4a) x 0.90 = . . . L

15. Subject's FEV<sub>1</sub> after initial 2 puffs of albuterol following sputum induction

15a. FEV<sub>1</sub> . . . . . L (1200)

15b. FEV<sub>1</sub> (% predicted) . . . . . % predicted (1210)

15c. Time of FEV<sub>1</sub> from Question #15a (*based on 24-hour clock*) . . . . . (1220)

15d. Was the FEV<sub>1</sub> from Question #15a ≥ the sputum induction reversal reference value in the gray box above? <sub>1</sub> Yes <sub>0</sub> No (1230)

- **If YES, stop here and continue with remaining visit procedures.**
- **If NO, proceed with additional procedures as instructed in the MOP and complete Question #16.**

16. Subject's final FEV<sub>1</sub> after sputum induction

16a. FEV<sub>1</sub> . . . . . L (1240)

16b. FEV<sub>1</sub> (% predicted) . . . . . % predicted (1250)

16c. Time of FEV<sub>1</sub> from Question #16a (*based on 24-hour clock*) . . . . . (1260)

16d. Was the FEV<sub>1</sub> from Question #16a ≥ the sputum induction reversal reference value in the gray box on page 3 of this form? <sub>1</sub> Yes <sub>0</sub> No (1270)

- **If NO, complete the source documentation box below.**

Physician/CC signature: \_\_\_\_\_ (1280)

Date: \_\_\_ / \_\_\_ / \_\_\_\_\_ (1290)

Time: \_\_\_\_\_ (*based on a 24-hour clock*) (1300)









**SMOG  
TERMINATION OF STUDY  
PARTICIPATION**

Subject ID: 1 0 - \_\_\_\_ - \_\_\_\_  
 Subject Initials: \_\_\_\_  
 Visit Number: \_\_\_\_  
 Visit Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
                     Month           Day           Year  
 Coordinator ID: \_\_\_\_

*(Clinic Coordinator completed)*

**Please indicate the reason for termination of study participation.**

**1. (Visit 10 Only)**

Pregnancy test results

*(Check N/A if the subject is male or unable to bear children.)*

- <sub>1</sub> Positive  
<sub>2</sub> Negative  
<sub>9</sub> N/A (1000)

**Pregnancy Test Source Documentation**

Subject's Initials: \_\_\_\_ (1030)

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (1040)

**2. (Visit 10 Only)**

Has the subject completed the study?

**→ If YES, skip to the SIGNATURES section on page 2.**

- <sub>1</sub> Yes           <sub>0</sub> No (1010)

**3. Is the subject withdrawing from the study due to pregnancy?**

*(Check N/A if the subject is male.)*

- <sub>1</sub> Yes           <sub>0</sub> No           <sub>9</sub> N/A (1020)

**4. (Visit 1 - Visit 4 non-randomized subjects Only)**

During the run-in period, has the subject experienced a significant asthma exacerbation as defined in the protocol?

- <sub>1</sub> Yes           <sub>0</sub> No (1050)

**5. (Visit 3 - Visit 4 non-randomized subjects Only)**

During the first two weeks of the run-in period, has the subject failed to comply with regular use of study drugs (missed >15%) as reflected on the Diary Cards?

- <sub>1</sub> Yes           <sub>0</sub> No (1060)

**6. (Visit 3 - Visit 4 non-randomized subjects Only)**

During the run-in period, has the subject failed to record his or her peak flow measurements and symptoms on the Diary Cards on average >15% of the required time?

- <sub>1</sub> Yes           <sub>0</sub> No (1070)

**7. (Visit 1 - Visit 4 non-randomized subjects Only)**

Has the subject been deemed ineligible according to any eligibility criteria **other than** a significant asthma exacerbation?

If **YES**, explain \_\_\_\_\_

- <sub>1</sub> Yes           <sub>0</sub> No (1080)







