



AIRQ® EHR TIP SHEET

**INSTRUCTIONS TO INTEGRATE
THE ASTHMA IMPAIRMENT AND
RISK QUESTIONNAIRE (AIRQ®)
IN THE EPIC® ELECTRONIC HEALTH
RECORD (EHR) SYSTEM**

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OVERVIEW AND LIMITATIONS OF INTEGRATING THE AIRQ® INTO THE EPIC® EHR SYSTEM

The AIRQ® is a patient assessment tool intended to help identify patients with asthma 12 years and older whose health may be at risk because of uncontrolled asthma. These instructions can only be used to integrate the AIRQ® in the Epic EHR system and are not appropriate for other health conditions or EHR systems.

The processes outlined in this resource are variable, and not all steps will apply to every health system. Any steps or settings that are not part of a health system's standard process should be excluded or modified accordingly. Any questions should be directed to your EHR system's point of contact. The organization is solely responsible for implementing, testing, monitoring, and ongoing operation of any EHR tools. Please note, no modifications of the AIRQ® questions or their sequencing can be made.

Reach out to your licensing representative at RWS to obtain a free* license to use AIRQ® in your clinic, practice, or health system. Please send an email message to astrazeneca@rws.com to initiate the licensing process. Include the best contacts on your team and the purpose for which you will be using the tool (eg, "clinical assessment of patients with asthma" or "quality improvement or research study") as long as the use of the tool remains in line with intended use.

The Epic Build Guide section describes how to integrate the AIRQ® into the EHR. The instructions are not intended to replace your health system's processes or protocols, nor is this guide intended to imply that AIRQ® should be used to determine management recommendations. Any decision related to patient care should be made by a patient's health care provider in consultation with the patient.

To integrate the AIRQ®, follow these 3 steps:

1. Secure licensing* from RWS by emailing a request to astrazeneca@rws.com
2. Integrate the English and Spanish versions of the AIRQ® as is appropriate for your system. You may also reach out to RWS for options for securing additional AIRQ® translations
3. Release to the production environment, and provide training and/or an EHR update to end users

*Licenses for use of the US English and US Spanish versions of AIRQ® with patients in a clinical practice, academic setting, or health care system are **free in perpetuity**.

ABOUT THE AIRQ®

The AIRQ® can be found at www.airqscore.com, where PDF and digital versions can be accessed and information on AIRQ® indications and intended use can be obtained.

There are 2 versions of the AIRQ® available for implementation:

AIRQ®: Taken by the patient once every 12 months

Follow-up AIRQ®: Taken by the patient for an HCP encounter occurring between annual visits

The instructions in this build guide are written specifically for implementing the AIRQ®. Guidance around adapting these instructions for implementing the Follow-up AIRQ® are found toward the end of this document.

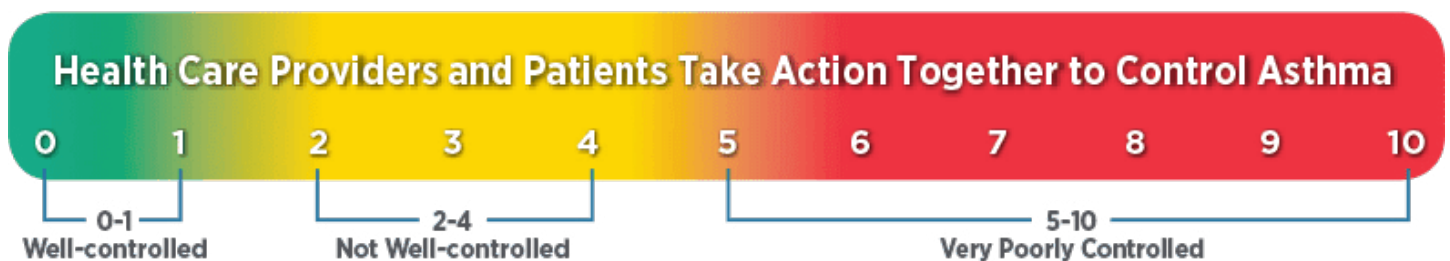
The Asthma Impairment and Risk Questionnaire (AIRQ®) contains 2 key sections:

Section 1: The questions

- Each question is individually scored and equally weighted (Yes equals 1 point, No equals zero points)

Section 2: The score and interpretation

- The number of yes responses to each of the 10 individual questions is summed to generate the total AIRQ® score
- The interpretation of the total AIRQ® score relative to asthma control is pictured below in the graphic



Note: As asthma control worsens, the chance of an asthma attack increases.¹

When integrating the AIRQ® into the EHR, potential options for how a patient could access the results include:

Option 1: Upon completion of the 10 questions, the patient will be able to view their Total Score interpretation graphics. This option will give the patient the opportunity to review their results in advance and help them engage in a shared-decision conversation with their health care provider prior to the actual clinical encounter

Option 2: Upon completion of the 10 questions, the patient cannot see their Total Score interpretation graphics (the total AIRQ® score is withheld until the health care provider or their staff can discuss it with the patient)

Both options are included in the build instructions. Before implementing the AIRQ® in the EHR, ascertain if Option 1 is feasible.

¹Global Strategy for Asthma Management and Prevention: ©2021 Global Initiative for Asthma

Printable Version of the AIRQ® in English

AIRQ® (Asthma Impairment and Risk Questionnaire)



For use by health care providers with their patients 12 years and older who have been diagnosed with asthma. AIRQ® is intended to be part of an asthma clinic visit.

Please answer all of the questions below.

In the **past 2 weeks**, has coughing, wheezing, shortness of breath, or chest tightness:

1. Bothered you during the day on **more than 4 days**?
2. Woke you up from sleep **more than 1 time**?
3. Limited the activities you want to do **every day**?
4. Caused you to use your rescue inhaler or nebulizer **every day**?



Please see all prescribing information for all products.

In the **past 2 weeks**:

5. Did you have to limit your social activities (such as visiting with friends/relatives or playing with pets/children) because of your asthma?
6. Did coughing, wheezing, shortness of breath, or chest tightness limit your ability to exercise?
7. Did you feel that it was difficult to control your asthma?

In the **past 12 months**, has coughing, wheezing, shortness of breath, or chest tightness:

8. Caused you to take steroid pills or shots, such as prednisone or Medrol**?
9. Caused you to go to the emergency room or have unplanned visits to a health care provider?
10. Caused you to stay in the hospital overnight?

Total YES Answers

What Does My AIRQ® Score Mean?

The AIRQ® is meant to help your health care providers talk with you about your asthma control. The AIRQ® does not diagnose asthma. Whatever your AIRQ® score (total YES answers), it is important for your health care team to discuss the number and answers to each of the questions with you. All patients with asthma, even those who may be well-controlled, can have an asthma attack. As asthma control worsens, the chance of an asthma attack increases.¹ Only your medical provider can decide how best to assess and treat your asthma.



*Medrol® (Pfizer, Inc.) or methylprednisolone

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¹Global Strategy for Asthma Management and Prevention: ©2021 Global Initiative for Asthma

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AIRQ® is a registered trademark of AstraZeneca.

Printable Version of the AIRQ® in Spanish



Cuestionario sobre la afectación y el riesgo en el asma (AIRQ™)

Para uso de los proveedores de atención médica con sus pacientes mayores de 12 años que hayan sido diagnosticados de asma. El AIRQ™ está diseñado para formar parte de una visita a una clínica de asma.

Por favor, responda todas las preguntas a continuación.

En las **últimas dos semanas**, la tos, la sibilancia, la dificultad para respirar o la presión en el pecho:

1. ¿Le molestaron en el transcurso del día durante **más de cuatro días**?
2. ¿Lo despertaron **más de una vez**?
3. ¿Limitaron las actividades que desea realizar **todos los días**?
4. ¿Hicieron que tuviera que usar su inhalador de rescate o nebulizador **todos los días**?



Por favor, consulte la ficha técnica completa de todos los productos.

En las **últimas dos semanas**:

5. ¿Tuvo que limitar sus actividades sociales (como visitar a amigos/parientes o jugar con mascotas/niños) debido a su asma?
6. ¿La tos, la sibilancia, la dificultad para respirar o la presión en el pecho limitaron su capacidad de hacer ejercicio?
7. ¿Sintió que era difícil controlar su asma?

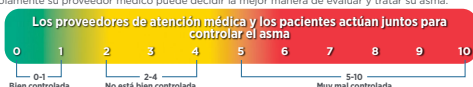
En los **últimos 12 meses**, la tos, la sibilancia, la dificultad para respirar o la presión en el pecho:

8. ¿Hicieron que tuviera que usar pastillas o inyecciones de corticosteroides, como prednisona o Medrol**?
9. ¿Hicieron que tuviera que ir a una sala de emergencias o consultas no planificadas con un proveedor de atención médica?
10. ¿Hicieron que tuviera que permanecer en el hospital durante la noche?

Total de respuestas "Sí"

¿Qué significa mi puntuación AIRQ™?

El AIRQ™ tiene como objetivo ayudar a sus proveedores de atención médica a hablar con usted sobre el control de su asma. El AIRQ™ no diagnostica el asma. Cualquiera que sea su puntuación de AIRQ™ (total de respuestas afirmativas), es importante que su equipo de atención médica converse con usted acerca del número que obtenga y las respuestas a cada una de las preguntas. Todos los pacientes con asma, incluso aquellos que podrían estar bien controlados, pueden tener una crisis asmática. A medida que el control del asma empeora, la probabilidad de sufrir una crisis asmática aumenta.¹ Solamente su proveedor médico puede decidir la mejor manera de evaluar y tratar su asma.



*Medrol® (Pfizer, Inc.) o metilprednisolona

Las marcas registradas que se muestran arriba son propiedad de sus respectivos dueños.

¹Estrategia mundial para el tratamiento y la prevención del asma: ©2020 Iniciativa mundial para el asma

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AIRQ™ es una marca registrada de AstraZeneca.

AIRQ® INFORMATION FOR HEALTH CARE PROVIDERS

AIRQ® Indications

The AIRQ® is a patient assessment tool intended to help identify patients 12 years of age and older whose health may be at risk because of uncontrolled asthma. This assessment is based on a series of patient-facing questions about asthma medications, respiratory symptoms, and utilization of health care resources. Depending on the patient's responses to these questions, the patient will receive a score reflecting their level of asthma control. After completion of the AIRQ®, the patient and health care provider should discuss the responses to each of the individual questions, the total AIRQ® score, and the patient's level of asthma control, and form a treatment plan.

The AIRQ® Is Not Intended To:

- Diagnose asthma
- Replace the advice or treatment of a health care provider
- Direct specific actions to treat, mitigate, or improve asthma
- Collect or store any laboratory values or lung function test values

Health Care Provider Instructions for Use

1. Provide your patient with the AIRQ® during or immediately prior to their appointment.
2. Examine the responses to each of the individual questions, the total AIRQ® score, and the patient's level of asthma control.
3. Discuss responses to each of the individual questions, the total AIRQ® score, and the patient's level of asthma control with your patient.
4. Determine a treatment plan with your patient based on the information you've learned during your discussion and clinical assessment of the patient, and through responses to the AIRQ® questions.

Information on the Validation and Interpretation of AIRQ®

1. AIRQ® is a 10-item, equally weighted, yes/no composite asthma control questionnaire that includes 7 impairment and 3 risk items.
2. The AIRQ® was validated against a standard of ACT™ score (impairment) + prior-year, chart-documented exacerbations (risk) in 442 patients 12 years of age and older who were previously diagnosed with asthma.
3. Multivariable logistic regression analyses were used to determine questions with the greatest validity in discriminating between patients of varying levels of control.
4. A total of 10 questions were identified for inclusion in the AIRQ®.
5. The AIRQ® performed well with respect to the ACT™ + exacerbations standard in identifying well-controlled vs not well-/very poorly controlled and well-/not well-controlled vs very poorly controlled asthma, with area under the ROC (receiver operating characteristic) curves of 0.94 and 0.93, respectively.
6. The combination of selected AIRQ® items and cut points of control demonstrated a sensitivity of 0.90 to identify patients whose asthma was well-controlled (cut point of ≥ 2), and a specificity of 0.96 to determine patients whose asthma was very poorly controlled (cut point of ≥ 5).
7. For further information on the development and cross-sectional validation of the AIRQ®, please refer to Murphy KR, et al. *J Allergy Clin Immunol Pract.* 2020;8(7):2263-2274.e5. and Murphy KR, et al. *J Allergy Clin Immunol Pract.* 2021;9(1):603.

EPIC BUILD GUIDE

English Version

The AIRQ® can be integrated using a custom SmartForm. Administrator privileges are required to create the SmartForm.

1. The SmartForm build tool can be accessed by clicking the Epic logo > Tools > SmartForms > SmartForm Designer
2. Create a new SmartForm in Advanced Mode. For the Display Name, enter “AIRQ®” and set the Type to General
3. Click Create a Blank Form to display the SmartForm Designer
4. Right-click and select Add > Label and set the caption to:
“AIRQ®”
5. Create the first section under the AIRQ® header. Right-click and select Add > Label and set the caption to:
*“For use by health care providers with their patients 12 years and older who have been diagnosed with asthma. AIRQ® is intended to be part of an asthma clinic visit.
Please answer all of the questions below. For more detailed instructions, please click here:
<http://patientifu.digitalairq.com>”*
6. Create the second section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
“In the past 2 weeks, has coughing, wheezing, shortness of breath, or chest tightness:”

English Version (cont'd)

7. Create a table with 2 columns and 4 rows (right-click the blank label > Add > Table > Below). Click Insert Table
 - Create a new list for the 4 questions. Enter the following prompts for the questions and set each element using the parameters below:
 1. Bothered you during the day on more than 4 days?
 - o Prompt: AIRQ® 1. Bothered you during the day on more than 4 days?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager. Create a new field for AIRQ® data (all responses to the AIRQ® questions branch under this field)
 - o Create a data field for the AIRQ® 1 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
 2. Woke you up from sleep more than 1 time?
 - o Prompt: AIRQ® 2. Woke you up from sleep more than 1 time?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 2 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
 3. Limited the activities you want to do every day?
 - o Prompt: AIRQ® 3. Limited the activities you want to do every day?
 - Multiple select: No

English Version (cont'd)

- ☐ Style: Button
 - ☐ Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 3 question using the parameters below:
 - ☐ Data type: Category
 - ☐ Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 4. Caused you to use your rescue inhaler or nebulizer every day?
 - o Prompt: AIRQ® 4. Caused you to use your rescue inhaler or nebulizer every day?
 - ☐ Multiple select: No
 - ☐ Style: Button
 - ☐ Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 4 question using the parameters below:
 - ☐ Data type: Category
 - ☐ Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 8. Right-click and select Add > Label and add a blank label

English Version (cont'd)

9. Right-click the blank label and select Add > Image. Select the image from here: <http://english.inhalers.airqimages.com/> (the image displays rescue inhalers and nebulizers to help the patient with answering question 4)
10. Create the third section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
"In the past 2 weeks:"
11. Create a table with 2 columns and 3 rows (right-click the blank label > Add > Table > Below). Click Insert Table
 - Create a new list for the 3 questions and enter the following prompts for the questions:
 5. Did you have to limit your social activities (such as visiting with friends/relatives or playing with pets/children) because of your asthma?
 - o Prompt: AIRQ® 5. Did you have to limit your social activities (such as visiting with friends/relatives or playing with pets/children) because of your asthma?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - In the Component section, click in the Element field to open the SmartData manager
 - Create a data field for the AIRQ® 5 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
 - Set the Context to Patient
 - Click Save, then Accept
 - 6. Did coughing, wheezing, shortness of breath, or chest tightness limit your ability to exercise?
 - o Prompt: AIRQ® 6. Did coughing, wheezing, shortness of breath, or chest tightness limit your ability to exercise?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 6 question using the parameters below:

English Version (cont'd)

- ☐ Data type: Category
 - ☐ Category list: Yes
No
 - ☐ Set the Context to Patient
 - ☐ Click Save, then Accept
- 7. Did you feel that it was difficult to control your asthma?
 - ☐ Prompt: AIRQ® 7. Did you feel that it was difficult to control your asthma?
 - ☐ Multiple select: No
 - ☐ Style: Button
 - ☐ Data provider: Element
 - ☐ In the Component section, click in the Element field to open the SmartData manager
 - ☐ Create a data field for the AIRQ® 7 question using the parameters below:
 - ☐ Data type: Category
 - ☐ Category list: Yes
No
 - ☐ Set the Context to Patient
 - ☐ Click Save, then Accept
- 12. Create the fourth section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
"In the past 12 months, has coughing, wheezing, shortness of breath, or chest tightness:"
- 13. Create a table with 2 columns and 3 rows (right-click the blank label > Add > Table > Below). Click Insert Table
 - Create a new list for the 3 questions and enter the following prompts for the questions:

English Version (cont'd)

8. Caused you to take steroid pills or shots, such as prednisone or Medrol®?
 - o Prompt: AIRQ® 8. Caused you to take steroid pills or shots, such as prednisone or Medrol®?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 8 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
9. Caused you to go to the emergency room or have unplanned visits to a health care provider?
 - o Prompt: AIRQ® 9. Caused you to go to the emergency room or have unplanned visits to a health care provider?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 9 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
 - o Set the Context to Patient
 - o Click Save, then Accept
10. Caused you to stay in the hospital overnight?
 - o Prompt: AIRQ® 10. Caused you to stay in the hospital overnight?
 - Multiple select: No
 - Style: Button
 - Data provider: Element

English Version (cont'd)

- o In the Component section, click in the Element field to open the SmartData manager
- o Create a data field for the AIRQ® 10 question using the parameters below:
 - Data type: Category
 - Category list: Yes
No
- o Set the Context to Patient
- o Click Save, then Accept

The health system has a choice of how to complete the AIRQ®:

• **Option 1:** Upon completion of the 10 questions, the patient will be able to view their Total Score interpretation graphics. This option will give the patient the opportunity to review their results in advance and help them engage in a shared-decision conversation with their health care provider prior to the actual clinical encounter

➡ Complete Steps 14–21; the score can be displayed within the same section as Steps 1–13

• **Option 2:** Upon completion of the 10 questions, the patient cannot see their Total Score Interpretation graphics (the total AIRQ® score is withheld until the health care provider or their staff can discuss it with the patient)

➡ Prior to completing Steps 14–21, add a script to hide the score from the patient or create a new section on the form. Enter “The AIRQ® result is hidden (or available below) so it can be discussed with the patient by their health care provider (or their staff)”

To see the score, scroll down to the next section where all result information is available

14. Create a Total YES Answers score field:

- Prompt: Total YES Answers
 - o Field type: Number entry
 - o Data provider: Element

English Version (cont'd)

- In the Component section, click in the Element field to open the SmartData manager
 - Create a data field for the Total YES Answers using the parameters below:
 - Data type: Number
 - Set the Context to Patient
 - Click Save, then Accept
15. Create a Command button with the caption “**Clear Values**” next to the Total YES Answers score
16. Below the AIRQ® questions, create a label with the caption:
“**What Does My AIRQ® Score Mean?**”
- The AIRQ® is meant to help your health care providers talk with you about your asthma control. The AIRQ® does not diagnose asthma. Whatever your AIRQ® score (total YES answers), it is important for your health care team to discuss the number and answers to each of the questions with you. All patients with asthma, even those who may be well-controlled, can have an asthma attack. As asthma control worsens, the chance of an asthma attack increases.¹ Only your medical provider can decide how best to assess and treat your asthma.*
- *Medrol® (Pfizer, Inc.) or methylprednisolone
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¹Global Strategy for Asthma Management and Prevention ©2021 Global Initiative for Asthma”
17. Below the AIRQ® definition (created in Step 14), create 3 label objects and set the visible property to No:
- Right-click and select Add > Label and add a blank label
 - Right-click the blank label and select Add > Image. Select the image from here:
<http://english.stick.airqimages.com/> (the image displays the scale of the AIRQ® scores)
18. Set the scripting to automatically calculate the Total YES Answers score:
- Click the Scripting tab
 - For each of the AIRQ® questions, set the Value Changes section, conditions, and actions:
 - Set the condition for each question = Yes
 - In the Check component data value:
 - Component: Question
 - Which: Value
 - Operator: Equals
 - Value: Yes
 - Add an action in the true branch:
 - Set Component Data Value
 - Which: Value
 - Options: Overwrite, Limit Chained Scripting Events
 - Value: 1
 - Add an action in the false branch:
 - Set Component Data Value

English Version (cont'd)

- Which: Value
 - Options: Overwrite, Limit Chained Scripting Events
 - Value: 0
- 19. Set the Total YES Answers score field and create a new action:
 - AIRQ® question 1 + AIRQ® question 2 + ... + AIRQ® question 10 (add the equation to add the results of each of the 10 questions)
 - Check Require All Component Values Exists
 - Click Check Script button to make sure there are no errors
- 20. Set the scripting for the Clear Values button:
 - Click the Scripting tab
 - Select the Clear Values button and select the Click action:
 - Click Add Action
 - Set Name to Clear Value
 - Type: Set Component Data Value
 - Which: Value
 - Options: Overwrite, Limit Chained Scripting Events
 - Value: leave blank
 - Repeat for all the AIRQ® questions and AIRQ® score
- 21. Complete testing before releasing to the production environment

Spanish Version

The AIRQ® can be integrated using a custom SmartForm. Administrator privileges are required to create the SmartForm.

1. The SmartForm build tool can be accessed by clicking the Epic logo > Tools > SmartForms > SmartForm Designer
2. Create a new SmartForm in Advanced Mode. For the Display Name, enter “AIRQ®” and set the Type to General
3. Click Create a Blank Form to display the SmartForm Designer
4. Right-click and select Add > Label and set the caption to:
“AIRQ®”
5. Create the first section under the AIRQ® header. Right-click and select Add > Label and set the caption to:
*“Para uso de los proveedores de atención médica con sus pacientes mayores de 12 años que hayan sido diagnosticados de asma. El AIRQ® está diseñado para formar parte de una visita a una clínica de asma.
Por favor, responda todas las preguntas a continuación. Para mas detalles sobre las instrucciones, por favor oprima aqui: <http://es.patientifu.digitalairq.com>”*
6. Create the second section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
“En las últimas dos semanas, la tos, la sibilancia, la dificultad para respirar o la presión en el pecho:”
7. Create a table with 2 columns and 4 rows (right-click the blank label > Add > Table > Below). Click Insert Table
 - Create a new list for the 4 questions. Enter the following prompts for the questions and set each element using the parameters below:
 1. ¿Le molestaron en el transcurso del día durante más de cuatro días?
 - o Prompt: AIRQ® 1. ¿Le molestaron en el transcurso del día durante más de cuatro días?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager. Create a new field for AIRQ® data (all responses to the AIRQ® questions branch under this field)

Spanish Version (cont'd)

- o Create a data field for the AIRQ® 1 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - Set the Context to Patient
 - Click Save, then Accept
- 2. ¿Lo despertaron más de una vez?
 - o Prompt: AIRQ® 2. ¿Lo despertaron más de una vez?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 2 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 3. ¿Limitaron las actividades que desea realizar todos los días?
 - o Prompt: AIRQ® 3. ¿Limitaron las actividades que desea realizar todos los días?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager

Spanish Version (cont'd)

- o Create a data field for the AIRQ® 3 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 4. ¿Hicieron que tuviera que usar su inhalador de rescate o nebulizador **todos los días?**
 - o Prompt: AIRQ® 4. ¿Hicieron que tuviera que usar su inhalador de rescate o nebulizador **todos los días?**
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 4 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 8. Right-click and select Add > Label and add a blank label
- 9. Right-click the blank label and select Add > Image. Select the image from here: <http://spanish.inhalers.airqimages.com/> (the image displays rescue inhalers and nebulizers to help the patient with answering question 4)
- 10. Create the third section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
"En las últimas dos semanas:"

Spanish Version (cont'd)

11. Create a table with 2 columns and 3 rows (right-click the blank label > Add > Table > Below). Click Insert Table

- Create a new list for the 3 questions and enter the following prompts for the questions:

5. ¿Tuvo que limitar sus actividades sociales (como visitar a amigos/parientes o jugar con mascotas/niños) debido a su asma?

o Prompt: AIRQ® 5. ¿Tuvo que limitar sus actividades sociales (como visitar a amigos/parientes o jugar con mascotas/niños) debido a su asma?

- ☐ Multiple select: No
- ☐ Style: Button
- ☐ Data provider: Element
- ☐ In the Component section, click in the Element field to open the SmartData manager
- ☐ Create a data field for the AIRQ® 5 question using the parameters below:
- ☐ Data type: Category
- ☐ Category list: Sí
No
- ☐ Set the Context to Patient
- ☐ Click Save, then Accept

6. ¿La tos, la sibilancia, la dificultad para respirar o la presión en el pecho limitaron su capacidad de hacer ejercicio?

o Prompt: AIRQ® 6. ¿La tos, la sibilancia, la dificultad para respirar o la presión en el pecho limitaron su capacidad de hacer ejercicio?

- ☐ Multiple select: No
- ☐ Style: Button
- ☐ Data provider: Element

Spanish Version (cont'd)

- o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 6 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - o Set the Context to Patient
 - o Click Save, then Accept
- 7. ¿Sintió que era difícil controlar su asma?
 - o Prompt: AIRQ® 7. ¿Sintió que era difícil controlar su asma?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 7 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - Set the Context to Patient
 - Click Save, then Accept
- 12. Create the fourth section of the AIRQ® SmartForm. Right-click and select Add > Label and set the caption to:
“En los últimos 12 meses, la tos, la sibilancia, la dificultad para respirar o la presión en el pecho.”
- 13. Create a table with 2 columns and 3 rows (right-click the blank label > Add > Table > Below). Click Insert Table
 - Create a new list for the 3 questions and enter the following prompts for the questions:
 - 8. ¿Hicieron que tuviera que usar pastillas o inyecciones de corticosteroides, como prednisona o Medrol®?
 - o Prompt: AIRQ® 8. ¿Hicieron que tuviera que usar pastillas o inyecciones de corticosteroides, como prednisona o Medrol®?
 - Multiple select: No

Spanish Version (cont'd)

- Style: Button
 - Data provider: Element
 - In the Component section, click in the Element field to open the SmartData manager
 - Create a data field for the AIRQ® 8 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - Set the Context to Patient
 - Click Save, then Accept
- 9. ¿Hicieron que tuviera que ir a una sala de emergencias o consultas no planificadas con un proveedor de atención médica?
 - Prompt: AIRQ® 9. ¿Hicieron que tuviera que ir a una sala de emergencias o consultas no planificadas con un proveedor de atención médica?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - In the Component section, click in the Element field to open the SmartData manager
 - Create a data field for the AIRQ® 9 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - Set the Context to Patient
 - Click Save, then Accept

Spanish Version (cont'd)

10. ¿Hicieron que tuviera que permanecer en el hospital durante la noche?
 - o Prompt: AIRQ® 10. ¿Hicieron que tuviera que permanecer en el hospital durante la noche?
 - Multiple select: No
 - Style: Button
 - Data provider: Element
 - o In the Component section, click in the Element field to open the SmartData manager
 - o Create a data field for the AIRQ® 10 question using the parameters below:
 - Data type: Category
 - Category list: Sí
No
 - o Set the Context to Patient
 - o Click Save, then Accept

The health system has a choice of how to complete the AIRQ®:

- **Option 1:** Upon completion of the 10 questions, the patient will be able to view their Total Score interpretation graphics. This option will give the patient the opportunity to review their results in advance and help them engage in a shared-decision conversation with their health care provider prior to the actual clinical encounter



Complete Steps 14–21; the score can be displayed within the same section as Steps 1–13

- **Option 2:** Upon completion of the 10 questions, the patient cannot see their Total Score Interpretation graphics (the total AIRQ® score is withheld until the health care provider or their staff can discuss it with the patient)



Prior to completing Steps 14–21, add a script to hide the score from the patient or create a new section on the form. Enter “El resultado de AIRQ® está oculto (o disponible abajo) para que pueda ser discutido con el paciente por su proveedor médico (o su personal).”

To see the score, scroll down to the next section where all result information is available

14. Create a Total de respuestas “Sí” score field:

- Prompt: Total de respuestas “Sí”
 - o Field type: Number entry
 - o Data provider: Element

Spanish Version (cont'd)

- In the Component section, click in the Element field to open the SmartData manager
 - Create a data field for the Total de respuestas “Sí” score using the parameters below:
 - o Data type: Number
 - Set the Context to Patient
 - Click Save, then Accept
15. Create a Command button with the caption “*Reiniciar AIRQ®*” next to the Total de respuestas “Sí” score
16. Below the AIRQ® questions, create a label with the caption:
“¿Qué significa mi puntuación AIRQ®?”
- El AIRQ® tiene como objetivo ayudar a sus proveedores de atención médica a hablar con usted sobre el control de su asma. El AIRQ® no diagnostica el asma. Cualquiera que sea su puntuación de AIRQ® (total de respuestas afirmativas), es importante que su equipo de atención médica converse con usted acerca del número que obtenga y las respuestas a cada una de las preguntas. Todos los pacientes con asma, incluso aquellos que podrían estar bien controlados, pueden tener una crisis asmática. A medida que el control del asma empeora, la probabilidad de sufrir una crisis asmática aumenta.¹ Solamente su proveedor médico puede decidir la mejor manera de evaluar y tratar su asma.*
- *Medrol® (Pfizer, Inc.) o metilprednisolona
Las marcas registradas que se muestran arriba son propiedad de sus respectivos dueños.
¹Estrategia mundial para el tratamiento y la prevención del asma: ©2021 Iniciativa mundial para el asma”
17. Below the AIRQ® definition (created in Step 14), create 3 label objects and set the visible property to No:
- Right-click and select Add > Label and add a blank label
 - Right-click the blank label and select Add > Image. Select the image from here: <http://spanish.stick.airqimages.com> (the image displays the scale of the AIRQ® scores)
18. Set the scripting to automatically calculate the Total de respuestas “Sí” score:
- Click the Scripting tab
 - For each of the AIRQ® questions, set the Value Changes section, conditions, and actions:
 - o Set the condition for each question = Sí
 - o In the Check component data value:
 - Component: Question
 - Which: Value
 - Operator: Equals
 - Value: Sí
 - o Add an action in the true branch:
 - Set Component Data Value
 - Which: Value

Spanish Version (cont'd)

- Options: Overwrite, Limit Chained Scripting Events
 - Value: 1
 - Add an action in the false branch:
 - Set Component Data Value
 - Which: Value
 - Options: Overwrite, Limit Chained Scripting Events
 - Value: 0
- 19. Set the Total de respuestas “Sí” score field and create a new action:
 - AIRQ® question 1 + AIRQ® question 2 + ... + AIRQ® question 10 (add the equation to add the results of each of the 10 questions)
 - Check Require All Component Values Exists
 - Click Check Script button to make sure there are no errors
- 20. Set the scripting for the Clear Values button:
 - Click the Scripting tab
 - Select the Clear Values button and select the Click action:
 - Click Add Action
 - Set Name to Clear Value
 - Type: Set Component Data Value
 - Which: Value
 - Options: Overwrite, Limit Chained Scripting Events
 - Value: leave blank
 - Repeat for all the AIRQ® questions and AIRQ® score
- 21. Complete testing before releasing to the production environment

IMPLEMENTING THE FOLLOW-UP AIRQ®

It is recommended that patients complete the AIRQ® once every 12 months. If you wish for patients to complete the AIRQ® for HCP encounters in the interim, patients should complete the Follow-up AIRQ®.

The Follow-up AIRQ® is almost identical to the AIRQ®; the sole exception is the stem language appearing immediately before question 8:

AIRQ®	Follow-up AIRQ®
In the <u>past 12 months</u> , has coughing, wheezing...	In the <u>past 3 months</u> , has coughing, wheezing...

If you wish to administer the Follow-up AIRQ® in your practice, you will need to implement a second version of the AIRQ® in your system, observing the sole difference in language as noted above.

To execute, update the label set in Step 12 of the SmartForm build guide to the following (the sole difference in language is highlighted for your illustration):

English Version: “In the past 3 months, has coughing, wheezing, shortness of breath, or chest tightness.”

Spanish Version: “En los últimos 3 meses, la tos, la sibilancia, la dificultad para respirar o la presión en el pecho.”

It would be up to your staff to ensure that the patient is directed to the appropriate version of the AIRQ®, whether they need to complete the AIRQ® for their annual visit or the Follow-up AIRQ® for an interim encounter.

NOTES

- The Customer (eg, physician, medical group, IDN) shall be solely responsible for implementation, testing, and monitoring of the instructions to ensure proper orientation in each Customer's EHR system
- Capabilities, functionality, and setup (customization) for each individual EHR system vary. AstraZeneca shall not be responsible for revising the implementation instructions it provides to any Customer in the event that Customer modifies or changes its software, or the configuration of its EHR system, after such time as the implementation instructions have been initially provided by AstraZeneca
- While AstraZeneca tests its implementation instructions on multiple EHR systems, the instructions are not guaranteed to work for all available EHR systems and AstraZeneca shall have no liability thereto
- While EHRs may assist providers in identifying appropriate patients for consideration of assessment and treatment, the decision and action should ultimately be decided by a provider in consultation with the patient, after a review of the patient's records to determine eligibility, and AstraZeneca shall have no liability thereto
- The instructions have not been designed for and are not tools and/or solutions for meeting Advancing Care Information and/or any other quality/accreditation requirement
- All products are trademarks of their respective holders, all rights reserved. Reference to these products is not intended to imply affiliation with or sponsorship of AstraZeneca and/or its affiliates
- Please provide any feedback on the instructions or use of the AIRQ® to precisionfeedback@astrazeneca.com

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Certification

This is to certify that RWS Life Sciences, Inc. has performed the following procedures on the
90047_AZ_US-44918_Asthma Desktop_V4_Spanish-US
[RWS Life Sciences Job #: 230710A]:

Source filename: 90047_AZ_US-33841_Asthma Desktop_V4
Target filename: 90047_AZ_US-44918_Asthma Desktop_V4_Spanish-US
English Asset: US-33841 into Spanish Asset: US-44918
Document(s)
English (US) translated to Spanish (US)

- Two independent forward translations
- One harmonized forward translation
- One independent back-translation
- Reconciliation of back-translation and harmonized translation
- Review of back-translation by Survey Research Analyst
- Review of harmonized translation by on-site sponsor representative
- Cognitive debriefing with five patients with asthma in the United States
- Desktop publishing of validated translation
- Proofreading of validated translation

These documents were translated from English to Spanish and prepared by a team of translators and interviewers who are fully bilingual in both Spanish for the United States and English. All procedures were performed in accordance with current industry standards and FDA guidance.

Authorized Signature:



Digitally signed by
RWS Life Sciences
Date: 2020.11.20
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