Asthma Impairment and Risk Questionnaire (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.
- 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.
- The AIRQ[®] was validated against a standard of ACTTM score (impairment) + prior-year, chartdocumented 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[®].
- The AIRQ[®] performed well with respect to the ACT[™] + exacerbations standard in identifying wellcontrolled 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.
- 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).
- 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.

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