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| **Respiratory Rate - Infant Protocol** |
| **Protocol Id:** | 91401 |
| **Description of Protocol** | For infants (15 days to 3 years of age), a study staff member listens to breath sounds via a stethoscope lightly placed on the infant's chest for 60 seconds to count the number of complete respiratory cycles (one inspiration and one expiration). Note that because respiratory rate in infants is significantly different when awake vs. when asleep, studies should be consistent in measuring this variable. |
| **Specific Instructions** | None |
| **Protocol:** | 1) Infants (15 days to 3 years) should be calm, either awake (including quietly seated or quietly playing) or asleep (sleep notassociated with any spontaneous movement, including no eyemovements or vocalizations). Infants: count breath sounds in a complete respiratory cycle for 60 seconds with a stethoscope gently placed on infant’s chest.2) Record results.Date of Measurement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Infant awake:\_\_\_\_\_\_\_\_\_\_\_\_(Y/N)Number of respiratory cycles in one minute:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Selection Rationale** | The infant protocol was used in a study of 618 infants and children (309 healthy, 309 with non-respiratory problems) when awake and calm. |
| **Source** | Rusconi, F., Castagneto, M., Gagliardi, L., Leo, G., Pellegatta, A., Porta, N., Razon, S., & Braga, M. (1994). Reference values for respiratory rate in the first 3 years of life. Pediatrics, 94, 350-355. |
| **Language** | English |
| **Participant** | Infants ages 15 days to 3 years |
| **Personnel and Training Required** | Staff trained to count respiratory rates and auscultate breath sounds with a watch |
| **Equipment Needs** | Watch that can measure time in seconds and a stethoscope |
| **Standards:** |

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| **Standard** | **Name** | **ID** | **Source** |
| Common Data Element (CDE) | Person Respiratory Rate Text | 2970219 | [CDE Browser](https://cdebrowser.nci.nih.gov/CDEBrowser/search?elementDetails=9&FirstTimer=0&PageId=ElementDetailsGroup&publicId=2970219&version=1.0) |
| Logical Observation Identifiers Names and Codes (LOINC) | Resp rate infant proto | 62632-5 | [LOINC](http://s.details.loinc.org/LOINC/62632-5.html?sections=Web) |

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| **General references** | None |
| **Protocol Type** | Physical Measurement |
| **Derived Variables** | None |
| **Requirements** |

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| **Requirement Category** | **Required** |
| Major equipmentThis measure requires a specialized measurement device that may not be readily available in every setting where genome wide association studies are being conducted. Examples of specialized equipment are DEXA, Echocardiography, and Spirometry | No |
| Specialized trainingThis measure requires staff training in the protocol methodology and/or in the conduct of the data analysis. | No |
| Specialized requirements for biospecimen collectionThis protocol requires that blood, urine, etc. be collected from the study participants. | No |
| Average time of greater than 15 minutes in an unaffected individualAverage time of greater than 15 minutes in an unaffected individual | No |

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| **Process and Review:** | The Expert Review Panel has not reviewed this measure yet. |