Table E1 (supplementary): Overview of the definitions of main analysis and sensitivity analyses in ALSPAC and LRC.

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| --- | --- | --- | --- |
|  | **Analysis** | **Definition changed** | **Definition** |
|  | ALSPAC |  |  |
| **A1** | **Main Analysis** | - | **Inclusion criteria**: Wheeze or Cough in the past 12 months and saw a doctor for this. **Scoring variables:** 1)Sex 2)age 3)wheeze past 12 months 4)number of wheeze attacks 5)number of days wheezed 6)breathless due to wheeze 7)exercise as trigger for wheeze 8)allergy as trigger for wheeze 9)rash in the joints 10)family history of asthma or bronchitis. **Outcome definition**: Wheeze past 12 months and use of asthma medication. |
| **A2** | **Altered inclusion criteria** |  |  |
| A2.1 | Only children aged 1 year | Inclusion criteria | Age excluded as prediction variable |
| A2.2 | Only children aged 2 years | Inclusion criteria | Age excluded as prediction variable |
| A2.3 | Only children aged 3 years | Inclusion criteria | Age excluded as prediction variable |
| A2.4 | Wheeze past 12 months | Inclusion criteria | Past 12 months: *Has he/she had periods when there was wheezing with whistling on his/her chest?* or *Has he/she had wheeze?* |
| A2.5 | Cough past 12 months | Inclusion criteria | Past 12 months: *Has he/she ever had a time when he has coughed on and off for at least 2 days?*  or *Has he/she had cough?* |
| **A3** | **Altered scoring variables** |  |  |
| A3.1 | Exclude trigger variables | Scoring variables | Exclude item 7 and 8: Exercise and allergy as triggers for wheeze |
| **A4** | **Altered outcome definition** |  |  |
| A4.1 | Severity: Wheeze past 12 months and use  of asthma medication at 3 or more episodes | Outcome | *Has he had wheeze in the past 12 months?* AND *Please indicate which of the following have been given to your child in the past 12 months* (answer category: asthma medication, on 3 or more episodes) |
|  |  |  |  |
|  | LRC |  |  |
| **L1** | **Main analysis** | - | **Inclusion criteria:** Wheeze or cough apart from colds in the past 12 months and saw a doctor for wheeze or cough. **Scoring variables:** 1)Sex 2)age 3)wheeze apart from colds 4)number of wheeze attacks 5)wheeze interference with daily life 6)shortness of breath due to wheeze 7)exercise or emotion as trigger for wheeze 8)allergy as trigger for wheeze 9)child ever had eczema 10)family history of wheeze, asthma or bronchitis. **Outcome:** wheezing or whistling in the chest in the last 12 months AND use of asthma medication |
| **L2** | **Altered inclusion criteria** |  |  |
| L2.1 | Wheeze past 12 months | Inclusion criteria | *Has your child has wheezing or whistling in the chest in the last 12 months*? |
| **L3** | **Altered scoring variables** |  |  |
| L3.1 | Exclude trigger variables | Scoring variables | Exclude item 7 and 8: Exercise and allergy as triggers for wheeze |
| L3.2 | Exchange wheeze without  colds with current wheeze | Scoring variables | Exchange item 3 ‘wheeze without colds’ with ‘wheezing or whistling in the chest in the last 12 months’ |
| **L4** | **Altered outcome** |  |  |
| L4.1 | Severity: Wheeze past 12 months more than  4 episodes and use of asthma medication | Outcome | More than 4 episodes of wheeze past 12 months and use of asthma medication past 12 months |