Supplemental table 1: Observations with missing information for each analysis

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|  | Approach 1 2005-2013 | Logistic regression 2010-2013 | Approach 22005-2013 | Cox Regression2010-2013 |
| NHIS Interviews of children 2-17 years of age | 31,668 | 10,132 | 85,087 | 33,889 |
| Observations missing information for asthma status (% of all interviews) | 67 (0.2%)  | 26 (0.3%) | 193 (0.2%) | 60 (0.2%) |
| Of those with asthma status available, number of observations missing information on influenza vaccine status (% of all interviews) | 988 (3.1%) | 311 (3.1%) | 2,823 (3.3%) | 1,393 (4.1%) |
| Of those with information for asthma status and influenza vaccination status, number of observations reporting influenza vaccination  | 10,494  | 1,913 | 27,261 | 14,586 |
| Observations reporting an influenza vaccination, but missing information on time and date of received influenza vaccine (% of those reporting asthma status and influenza vaccination status) | 1,027 (9.8%) | 143 (7.5%) | 2,406 (8.8%) | 1,691 (11.6%) |
| Children with asthma 2-17 years of age | 3,303 | 1,006 | 8,761 | 3,543 |
| Children with asthma missing influenza vaccine status (% of children with asthma) | 93 (2.8%) | 21 (2.1%) | 281 (3.2%) | 152 (4.3%) |
| Children with asthma reporting influenza vaccination | 1,510 | 330 | 3,861 | 1,819 |
| Children with asthma reporting influenza vaccination, but missing information on timing of received influenza vaccine (% of children with asthma reporting influenza vaccination) | 123 (8.1%) | 22 (6.7%) | 284 (7.4%) | 188 (10.3%) |
| Children without asthma 2-17 years of age | 28,298 | 9,100 | 76,133 | 30,286 |
| Children without asthma missing influenza vaccine status (% of children without asthma) | 895 (3.2%) | 290 (3.2%) | 2,570 (3.4%) | 1,241(4.1%) |
| Children without asthma reporting influenza vaccination | 8,984 | 1,583 | 23,400 | 12,767 |
| Children without asthma reporting influenza vaccination, but missing information on timing of received influenza vaccine (% of children without asthma reporting influenza vaccination) | 904 (10.1%) | 121 (7.6%) | 2,122 (9.1%) | 1,503 (11.8%) |