**Appendix 5**: Results for individual pneumococcal vaccine measures.

| Measure | Baseline(N = 157,335) | Follow-up(N = 153,688) | p-value |
| --- | --- | --- | --- |
| **Primary Measures** |  |  |  |
| **Pneumonia Vaccination Status for Older Adults**Percentage of adults > 65 years with a record of receiving BOTH one PCV13 AND at least one PPSV23 vaccine. | 13,290/44,800 (29.7%) | 25,724/44,495 (57.8%) | < 0.0001 |
| **Pneumococcal Vaccination for High-Risk Adults aged 19-64 years**Percentage of patients aged 19-64 with an immunocompromising condition OR Immunocompetent with a chronic medical condition who received both PPSV23 and PCV13 (if high risk condition is immunocompromising) OR PPSV23 only (if immunocompetent with chronic medical condition). | 7,866/26,807 (29.3%) | 11,787/30,371 (38.8%) | < 0.0001 |
| **Secondary Measures** |  |  |  |
| Percentage of adults > 65 years with a record of ever receiving ANY **pneumococcal** vaccination. | 34,732/44,800 (77.5%) | 38,758/44,495 (87.1%) | < 0.0001 |
| Percentage of older adults > 65 years with a record of receiving one **PPSV23** vaccine (after age of 65 or within the last 5 years). |

|  |  |  |
| --- | --- | --- |
| 23,937/44,800 (53.4%) | 29,936/44,495 (67.3%) | < 0.0001 |

 | 29,936/44,495 (67.3%) | < 0.0001 |
| Percentage of adults > 65 years with a record of receiving one **PCV13** vaccine. | 24,060/44,800 (53.7%) | 34,456/44,495 (77.4%) | < 0.0001 |
| Percentage of patients aged 19 - 64 with an immunocompromising condition with a record of **ANY pneumococcal** vaccination | 2,482/9,213 (26.9%) | 3,820/10,711 (35.7%) | < 0.0001 |
| Percentage of patients aged 19 - 64 with an immunocompromising condition with a record of ever receiving **PPSV23** pneumococcal vaccination. | 2,131/9,213 (23.1%) | 3,395/10,711 (31.7%) | < 0.0001 |
| Percentage of patients aged 19 - 64 with an immunocompromising condition with a record of ever receiving **PCV13** pneumococcal vaccination. | 739/9,213 (8.0%) | 1,300/10,711 (12.1%) | < 0.0001 |
| Percentage of patients aged 19 - 64 with an immunocompromising condition with a record of ever receiving **both PPSV23 and PCV13** | 388/9,213 (4.2%) | 875/10,711 (8.2%) | < 0.0001 |
| Percentage of patients aged 19 - 64 who are immunocompetent with underlying medical condition who ever received **PPSV23** | 8,708/20,162 (43.2%) | 13,101/23,071 (56.8%) | < 0.0001 |
|  |  |  |  |