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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table A.** Summary of Aggregation Information of HPV Vaccination Patients on the Long Island. (The patients from the entire NYSIIS database) 1 | | | | | | | | | | | | | | P value | |
|  |  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Linear | Overall |
| Gender | Male | 20574 | 38493 | 56711 | 77367 | 99946 | 120951 | 142650 | 163788 | 179135 | 193555 | 209654 | 225007 | <0.0005 | <0.0005 |
| Female | 55221 | 70823 | 86802 | 106035 | 126958 | 146873 | 166948 | 187044 | 202339 | 216664 | 232859 | 248334 | <0.0005 | <0.0005 |
| Age | 9-142 | 16458 | 23004 | 28215 | 36383 | 44374 | 49557 | 54729 | 58983 | 56735 | 52808 | 51848 | 51522 | <0.0005 | <0.0005 |
| 14-26 | 59331 | 86296 | 115183 | 146644 | 181202 | 214563 | 246876 | 277885 | 302238 | 322171 | 338127 | 348376 | <0.0005 | <0.0005 |
| >=26 | 162 | 239 | 410 | 725 | 1728 | 4148(1)4 | 8468 | 14473(3) | 23030(1) | 25799(3) | 53149(3) | 74101(6) | <0.0005 | <0.0005 |
| Race and Ethnic | White | 32635 | 49774 | 66838 | 86873 | 109218 | 130939 | 152995 | 174070 | 190051 | 203714 | 218956 | 233244 | <0.0005 | <0.0005 |
| Black | 6643 | 9529 | 12635 | 16727 | 21117 | 25031 | 28954 | 32860 | 35569 | 38436 | 41532 | 44677 | <0.0005 | <0.0005 |
| Asian | 3990 | 5803 | 7830 | 10642 | 13637 | 16675 | 20017 | 23285 | 25957 | 28451 | 31613 | 34801 | <0.0005 | <0.0005 |
| Hispanic | 14329 | 21043 | 29631 | 39846 | 51594 | 61855 | 72568 | 84262 | 92393 | 101611 | 112155 | 122192 | <0.0005 | <0.0005 |
| Non-Hispanic | 38598 | 58515 | 78026 | 101732 | 127471 | 152483 | 177657 | 201188 | 219371 | 234853 | 252642 | 269436 | <0.0005 | <0.0005 |
| Total |  | 75954 | 109540 | 143808 | 183751 | 227304 | 268268 | 310072 | 351339 | 381998 | 410773 | 443121 | 473995 | <0.0005 | <0.0005 |

1. The absolute numbers here represent the number of individuals who in the specific group already initialized the HPV vaccination doses series.
2. Kids with age 9- to 13-year-old are the targeted population to study in this paper.
3. HPV vaccination is not recommended for everyone older than age 26 years.
4. The number in the bracket shows the newly added patients who initialized the HPV vaccination at that year.
5. We use OLS regression to test the linear trend of the 12 years change and for the overall column, F test was utilized to evaluate the overall difference.