Multimedia Appendix. Reasons for parental human papilloma virus (HPV) vaccine hesitancy as perceived by pediatric provider type.

| Variable | All Providers (N=136) | Physicians (N=98) | NPs/PAs (N=38) | P value |
|----------|-----------------------|-------------------|----------------|---------|
| **Parental concerns: HPV vaccine safety, n (%)** | | | | |
| Not a barrier at all | 3 (2) | 3 (3) | 0 (0) | .53 |
| A minor barrier | 13 (10) | 8 (8) | 5 (14) | —b |
| Somewhat of a barrier | 57 (43) | 40 (41) | 17 (47) | — |
| A major barrier | 60 (45) | 46 (47) | 14 (39) | — |
| **Parental belief: child is too young for HPV vaccine, n (%)** | | | | |
| Not a barrier at all | 8 (6) | 5 (5) | 3 (8) | .04 |
| A minor barrier | 21 (16) | 14 (15) | 7 (19) | — |
| Somewhat of a barrier | 57 (43) | 37 (39) | 20 (56) | — |
| A major barrier | 46 (35) | 40 (42) | 6 (17) | — |
| **Parental belief: child is not at risk for HPV infection through sexual contact, n (%)** | | | | |
| Not a barrier at all | 10 (8) | 6 (6) | 4 (11) | .20 |
| A minor barrier | 30 (23) | 19 (20) | 11 (31) | — |
| Somewhat of a barrier | 55 (42) | 40 (42) | 15 (42) | — |
| A major barrier | 37 (28) | 31 (32) | 6 (17) | — |
| **Parental mistrust: vaccines in general, n (%)** | | | | |
| Not a barrier at all | 5 (4) | 4 (4) | 1 (3) | .99 |
| A minor barrier | 49 (37) | 36 (37) | 13 (36) | — |
| Parental concern: getting HPV, Tdap, and Meningococcal is too many shots for the same visit, n (%) |
|-------------------------------------------------|-----------------|-----------------|-----------------|----------|
| Not a barrier at all                            | 22 (17)         | 9 (9)           | 13 (36)         | .03      |
| A minor barrier                                 | 58 (44)         | 44 (45)         | 14 (39)         | —        |
| Somewhat of a barrier                           | 40 (30)         | 32 (33)         | 8 (22)          | —        |
| A major barrier                                 | 13 (10)         | 12 (12)         | 1 (3)           | —        |

| Parental concerns: HPV vaccine efficacy, n (%) |
|-------------------------------------------------|-----------------|-----------------|-----------------|----------|
| Not a barrier at all                            | 41 (31)         | 31 (32)         | 10 (28)         | .79      |
| A minor barrier                                 | 52 (39)         | 35 (36)         | 17 (47)         | —        |
| Somewhat of a barrier                           | 30 (23)         | 23 (24)         | 7 (19)          | —        |
| A major barrier                                 | 9 (7)           | 7 (7)           | 2 (6)           | —        |

| Parental concerns: out-of-pocket costs for HPV vaccine, n (%) |
|-------------------------------------------------|-----------------|-----------------|-----------------|----------|
| Not a barrier at all                            | 64 (49)         | 41 (43)         | 23 (64)         | .14      |
| A minor barrier                                 | 51 (39)         | 42 (44)         | 9 (25)          | —        |
| Somewhat of a barrier                           | 14 (11)         | 10 (11)         | 4 (11)          | —        |
| A major barrier                                 | 2 (2)           | 2 (2)           | 0 (0)           | —        |

aNP/PA: nurse practitioners/physician assistant.

bNot applicable.