2016 Influenza Imprinting Research Dataset Summary

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| Univariate Distribution of sample (N=1,662 for demographics, 1,912 for visits/admissions) | |
| Variable | n (%) |
| Type |  |
| A/H3 | 775 (47) |
| A/H1N1 | 887 (53) |
| Age Group |  |
| 0–4 | 277 (17) |
| 5–18 | 221 (13) |
| 19–49 | 455 (27) |
| 50–64 | 274 (16) |
| 65+ | 435 (26) |
| Imprinting Group |  |
| Born prior to 1968 | 740 (45) |
| Born in/after 1968 | 922 (55) |
| Sex |  |
| Female | 863 (52) |
| Male | 786 (47) |
| Unknown | 13 (1) |
| Season |  |
| 2015–2016 | 1,552 (93) |
| 2016–2017 | 110 (7) |
| Number of hospital visits per person |  |
| 1 | 1,445 (87) |
| 2 | 189 (11) |
| 3 | 23 (1) |
| 4 | 5 (1) |
| ICU\* |  |
| Yes | 407 (21) |
| No | 1,505 (79) |
| Length of Stay\* |  |
| No admission | 742 (39) |
| 1–3 days | 607 (32) |
| 4–7 days | 316 (17) |
| >1 week | 247 (13) |
| Vent Use\* |  |
| None | 1,752 (92) |
| <24 hours | 17 (<1) |
| 24–96 hours | 41 (1) |
| >96 hours | 104 (7) |
| Died\* |  |
| Yes | 44 (2) |
| No | 1,868 (98) |
| Visit Type\* |  |
| ED | 978 (51) |
| In patient | 934 (49) |

\*Based on number of visits/admissions, not individuals

|  |  |  |  |
| --- | --- | --- | --- |
| Bivariate Distribution of sample by influenza A sub-type (N=1,662 for demographics, 1,912 for visits/admissions) | | | |
|  | A/H3  n (%) | A/H1N1  n (%) | Chi-Square  p-val |
| Age Group |  |  |  |
| 0–4 | 91 (33) | 186 (67) | <0.0001 |
| 5–18 | 121 (55) | 100 (45) |
| 19–49 | 193 (42) | 262 (58) |
| 50–64 | 89 (32) | 185 (68) |
| 65+ | 281 (65) | 154 (35) |
| Sex |  |  |  |
| Female | 423 (49) | 440 (51) | 0.0401 |
| Male | 349 (44) | 437 (56) |
| Unknown | 3 (23) | 10 (77) |
| Imprinting Group |  |  |  |
| Born prior to 1968 | 382 (52) | 358 (48) | 0.0002 |
| Born in/after 1968 | 393 (43) | 529 (57) |
| ICU\* |  |  |  |
| Yes | 165 (41) | 242 (59) | 0.0208 |
| No | 707 (47) | 798 (53) |
| Length of Stay\* |  |  |  |
| No admission | 320 (43) | 422 (57) | 0.0002 |
| 1–3 days | 301 (50) | 360 (50) |
| 4–7 days | 163 (52) | 153 (48) |
| >1 week | 88 (36) | 159 (64) |

\*Based on number of visits/admissions, not individuals

ICU admission by influenza imprinting group (N=1,912)

|  |  |  |  |
| --- | --- | --- | --- |
|  | ICU yes | ICU no | Chi-Square p-val |
| Born prior to 1968 | 277 (32) | 590 (68) | <0.0001 |
| Born in/after 1968 | 130 (12) | 915 (88) |

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| --- | --- | --- | --- | --- |
| Distribution of ICU stays by influenza A sub-type, controlling for imprinting group (N=1,912) | | | | |
|  | Born prior to 1968 | | Born in/after 1968 | |
|  | ICU | | ICU | |
| Sub-type | Yes | No | Yes | No |
| A/H3 | 126 (28) | 318 (72) | 39 (9) | 389 (91) |
| A/H1N1 | 151 (36) | 272 (64) | 91 (15) | 526 (85) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Distribution of admitted days by subtype, controlling for flu imprinting group (N=1,912) | | | | | | | | | |  |  | |  |
| Born prior to 1968 | | | | |  | | Born in/after 1968 | | | | | | |
| Admit Days | | | | |  | | Admit Days | | | | | | |
| Flu subtype | no admit | 1–3 days | 4–7 days | >1 week | |  | |  | no admit | 1–3 days | | 4–7 days | >1 week |
| A/H1N1 | 88 (21) | 131 (31) | 99 (23) | 105 (25) | |  | |  | 334 (54) | 175 (28) | | 54 (9) | 54 (9) |
| A/H3 | 71 (16) | 166 (37) | 130 (29) | 77 (17) | |  | |  | 249 (58) | 135 (32) | | 33 (8) | 11 (3) |

Distribution of death by age (N=1,912)

|  |  |  |
| --- | --- | --- |
| Age Group | Died Yes | Died No |
| 0–4 | 2 (1) | 309 (99) |
| 5–18 | 0 (0) | 243 (100) |
| 19–49 | 9 (2) | 514 (98) |
| 50–64 | 20 (6) | 317 (94) |
| 65+ | 13 (3) | 485 (97) |

Distribution of death by age, stratified by influenza A subtype (N=1,912)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A/H3 | | A/H1N1 | |
| Age group | Died Yes | Died No | Died Yes | Died no |
| 0–4 | 0 (0) | 98 (100) | 2 (1) | 211 (99) |
| 5–18 | 0 (0) | 131 (100) | 0 (0) | 112 (100) |
| 19–49 | 0 (0) | 212 (100) | 9 (3) | 302 (97) |
| 50–64 | 3 (3) | 104 (97) | 17 (7) | 213 (93) |
| 65+ | 7 (2) | 317 (98) | 6 (3) | 168 (97) |