# SEROTYPES IN ADULT INVASIVE PNEUMOCOCCAL DISEASE IN LATIN AMERICA BEFORE WIDESPREAD USE OF PCV13 AMONG PERSONS >50 YEARS OLD.

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**Background:** Since 2011, pneumococcal conjugate vaccine (PCV13) has been approved for use in adults >50 years of age in Latin American countries.

**Methods:** We assessed the distribution of *Streptococcus pneumoniae* serotypes isolated from invasive pneumococcal disease (IPD) in patients aged 50-59 years and >60 years from Colombia, Chile, Argentina, Brazil, Uruguay and Mexico reported by SIREVAII (2011-2012), and estimated serotypes covered by PCV13 and PPSV23. We included data from 43 IPD cases in Argentina (2011-2012), not yet published by SIREVAII.

**Results:** From January 1st 2011 to December 31st 2012, 1713 IPD strains were reported (565, 50-59 years group; 1148, >60 years group). Table 1 shows frequency distribution of most common serotypes by age group. No relevant differences were found between countries. In the 50-59 years age group, serotype coverage was 52.21% (295/565) for PCV13 and 72.92% (412/565) for PPSV23. In >60 year olds, PCV13 and PPSV23 covered 56.53% (649/1148) and 75.35% (865/1148) of serotypes, respectively.

Table 1

| | Age groups | |
| --- | --- | --- |
| | **50-59 y** <br> n=565 | **>60 y** <br> n=1148 |
| **Serotypes** (%) | **3** (9.02) | **3** (13.6) |
| | **12F** (8.14) | **12F** (6.97) |
| | **7F** (6.37) | **14** (6.97) |
| | **14** (6.0) | **7F** (5.49) |
| | **19F** (4.95) | **19A** (4.88) |
| | **23F** (4.77) | **6A** (4.27) |

**Conclusion**: In the 2-year period before wide use of PCV13 in adults, vaccine serotype coverage was, on average, 54% for PCV13 and 74% for PPSV23. Most common serotypes were 3, 12F, 7F and 14. Continued surveillance of adult IPD in Latin America is warranted.