|  |  |  |
| --- | --- | --- |
| Variable | Data Source | Assumptions |
| Current Supply of Pediatric Anesthesiologists | Merged four databases:  1) SPA[[1]](#footnote-1) membership  2) ABA[[2]](#footnote-2) Pediatric Anesthesia board examination  3) Healthgrades  4) NPI[[3]](#footnote-3) data | Excludes residents and fellows  Complete list of pediatric anesthesiologists  Upper age limit of 75 years for clinically active pediatric anesthesiologist |
| Additions to the pediatric anesthesiologist workforce due to graduating pediatric anesthesiology fellows | 2002-2016 ACGME[[4]](#footnote-4) Data Resource Books | 75% of pediatric anesthesiology fellows remain in the pediatric anesthesiology workforce  Age- and sex- distribution of fellowship graduates will remain unchanged from base year levels  Patterns of retirement and weekly work hours will remain unchanged within a given age and sex group  Does not account for international medical graduates who completed residency training outside the US |
| Retirement Age | 2013 RAND Anesthesiologist Surveys | Pediatric anesthesiologists retire at same age as all anesthesiologists males (64) and females (64)  The age of retirement does not change |
| Number of Inpatient Procedures per Year | Kids’ Inpatient Database (AHRQ[[5]](#footnote-5)) | All designated procedures involve an anesthesiologist |
| US Pediatric Population | 2012 US Census Bureau Low, Middle, and High Series Population Projections | 0-17 years |
| Market Share of Pediatric Cases | Somme et al. | 40% of inpatient pediatric surgical cases performed at adult general hospitals |

Table 1. Key Model Variables

1. **Society for Pediatric Anesthesia** [↑](#footnote-ref-1)
2. **American Board of Anesthesiology** [↑](#footnote-ref-2)
3. **National Provider Identifier** [↑](#footnote-ref-3)
4. **Accreditation Council of Graduate Medical Education** [↑](#footnote-ref-4)
5. **Agency for Healthcare Research and Quality** [↑](#footnote-ref-5)