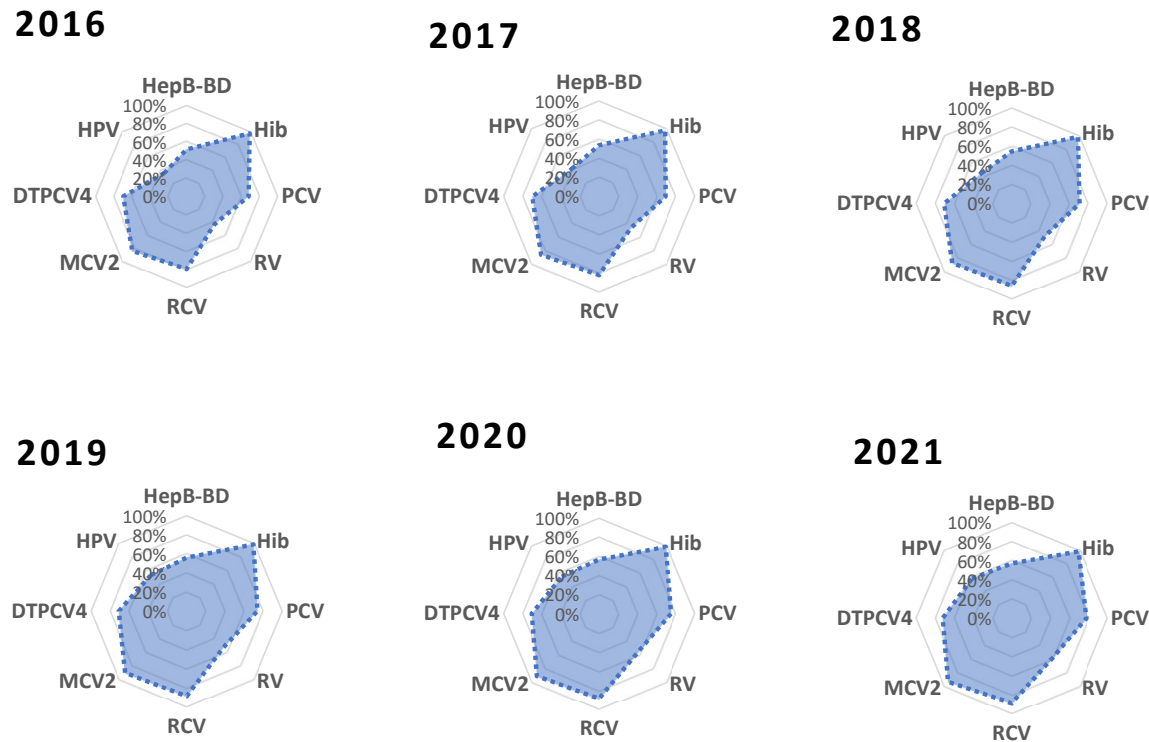


SUPPLEMENTARY FIGURE. Percentage of countries that had eight WHO-recommended new and underutilized vaccines\* in the national immunization schedule, by year — worldwide, 2016–2021



**Abbreviations:** DTPCV4 = first booster dose of diphtheria, tetanus, and pertussis-containing vaccine (reported at any age); HepB-BD = universal hepatitis B vaccine birth dose; Hib = *Haemophilus influenzae* type b vaccine; HPV = human papillomavirus vaccine; MCV2 = second dose of measles-containing vaccine; PCV = pneumococcal conjugate vaccine; RCV = rubella-containing vaccine; RV = rotavirus vaccine; WHO = World Health Organization.

\* Vaccines [Year of WHO recommendation that all countries include in national immunization programs]: HepB-BD: universal hepatitis B vaccine birth dose [2009]; Hib: *Haemophilus influenzae* type b vaccine [2006]; PCV: pneumococcal conjugate vaccine [2007]; RV: rotavirus vaccine [2009]; MCV2: second dose of measles-containing vaccine [2009]; DTPCV4: first booster dose of diphtheria, tetanus, and pertussis-containing vaccine [2017 where first booster dose of tetanus shifted to second year of life to align with first booster dose of pertussis]; HPV: human papillomavirus vaccine [2009 for 3 dose, updated 2014 to 2 dose, alternative single-dose schedule recommended in 2022]; RCV: rubella containing vaccine [2000 in countries where it can be safely introduced].