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Supplementary table and figure

The fully immunized child: Summarizing intracountry inequalities in coverage with seven routine vaccines in 195 countries and territories

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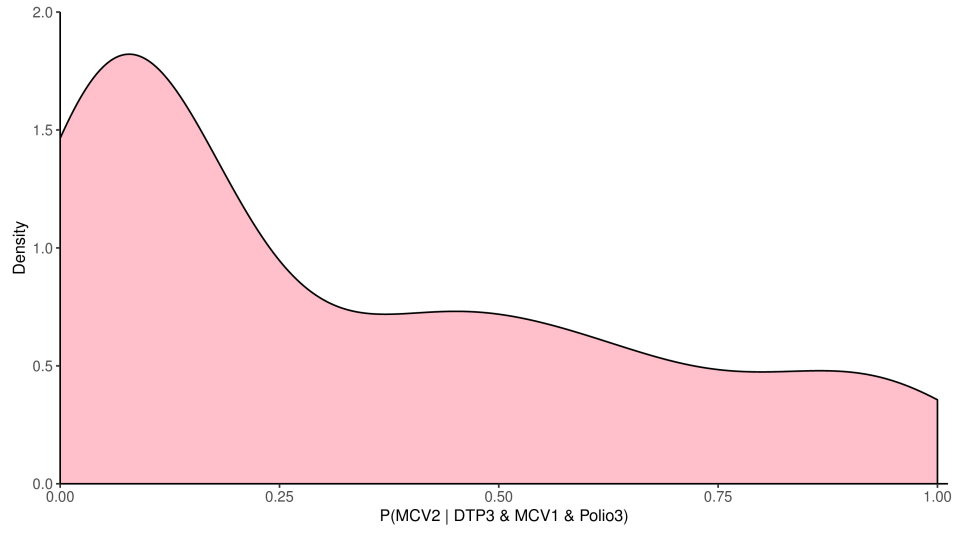


Figure S1: Distribution of $P(\text{MCV2} \mid \text{DTP3} \ \& \ \text{MCV1} \ \& \ \text{Polio3})$ in surveys including second-dose measles vaccination status, tabulated by data source, country, and age in years.

Table S1: Percent of children fully immunized with DTP3, MCV1, Polio3, HepB3, Hib3, PCV3, and RotaC in 2017, with 95% uncertainty intervals, and calendar year of introduction of most recent vaccine in the country's national schedule.

Country	Proportion fully vaccinated (95% UI)	Most recent vaccine introduction, by calendar year
<i>Afghanistan</i>	-	PCV (2014)
<i>Albania</i>	-	PCV (2011)
<i>Algeria</i>	-	PCV (2016)
<i>American Samoa</i>	-	-
<i>Andorra</i>	-	PCV (2007)
<i>Angola</i>	30.6% (25.6 - 35.4)	Rotavirus (2014)
<i>Antigua and Barbuda</i>	-	Hib (2000)
<i>Argentina</i>	58.5% (37.8 - 73.0)	Rotavirus (2015)
<i>Armenia</i>	82.2% (76.4 - 86.3)	PCV (2014)
<i>Australia</i>	65.4% (39.2 - 84.9)	Rotavirus (2007)
<i>Austria</i>	-	Rotavirus (2006)
<i>Azerbaijan</i>	-	PCV (2013)
<i>Bahrain</i>	88.4% (74.9 - 94.8)	Rotavirus, PCV (2008)
<i>Bangladesh</i>	-	PCV (2015)
<i>Barbados</i>	-	PCV (2009)
<i>Belarus</i>	-	PCV (2013)
<i>Belgium</i>	68.7% (41.5 - 86.5)	Rotavirus (2007)
<i>Belize</i>	-	Rotavirus (2017)
<i>Benin</i>	-	PCV (2011)
<i>Bermuda</i>	-	-
<i>Bhutan</i>	-	Hib (2011)
<i>Bolivia</i>	75.5% (68.8 - 81.1)	PCV (2014)
<i>Bosnia and Herzegovina</i>	-	Hib (2003)
<i>Botswana</i>	52.6% (33.5 - 66.2)	Rotavirus, PCV (2012)
<i>Brazil</i>	80.7% (69.6 - 87.0)	PCV (2010)
<i>Brunei</i>	-	Hib (2002)
<i>Bulgaria</i>	-	Hib, PCV (2010)
<i>Burkina Faso</i>	82.1% (77.0 - 86.4)	Rotavirus, PCV (2013)
<i>Burundi</i>	71.1% (60.8 - 79.2)	Rotavirus (2013)
<i>Cambodia</i>	-	PCV (2015)
<i>Cameroon</i>	62.7% (55.2 - 70.1)	Rotavirus (2014)
<i>Canada</i>	6.7% (1.7 - 16.2)	Rotavirus (2010)
<i>Cape Verde</i>	-	Hib (2010)
<i>Central African Republic</i>	17.3% (12.7 - 22.1)	Rotavirus (2017)
<i>Chad</i>	-	HepB, Hib (2008)
<i>Chile</i>	-	PCV (2011)
<i>China</i>	40.6% (20.6 - 60.0)	PCV (2008)
<i>Colombia</i>	71.6% (63.3 - 77.5)	Rotavirus, PCV (2009)
<i>Comoros</i>	-	Hib (2009)
<i>Congo</i>	27.8% (20.5 - 35.5)	Rotavirus (2014)
<i>Costa Rica</i>	-	PCV (2008)
<i>Cote d'Ivoire</i>	53.1% (39.2 - 63.5)	Rotavirus (2017)
<i>Croatia</i>	-	Hib (2002)
<i>Cuba</i>	-	Hib (1999)
<i>Cyprus</i>	-	PCV (2007)
<i>Czech Republic</i>	-	HepB, Hib (2001)

<i>Democratic Republic of the Congo</i>	-	PCV (2011)
<i>Denmark</i>	-	PCV (2007)
<i>Djibouti</i>	28.8% (16.2 - 40.5)	Rotavirus (2014)
<i>Dominica</i>	-	HepB, Hib (2006)
<i>Dominican Republic</i>	22.8% (16.1 - 29.4)	PCV (2013)
<i>Ecuador</i>	15.1% (7.6 - 23.4)	PCV (2010)
<i>Egypt</i>	-	Hib (2014)
<i>El Salvador</i>	85.9% (80.0 - 89.5)	PCV (2010)
<i>Equatorial Guinea</i>	-	HepB, Hib (2013)
<i>Eritrea</i>	80.4% (73.8 - 85.9)	PCV (2015)
<i>Estonia</i>	-	Rotavirus (2014)
<i>Ethiopia</i>	29.8% (22.7 - 37.5)	Rotavirus (2013)
<i>Federated States of Micronesia</i>	22.0% (11.2 - 33.5)	Rotavirus, PCV (2008)
<i>Fiji</i>	70.2% (61.7 - 77.5)	Rotavirus, PCV (2012)
<i>Finland</i>	-	PCV (2010)
<i>France</i>	-	PCV (2006)
<i>Gabon</i>	-	Hib (2010)
<i>Georgia</i>	59.2% (42.6 - 70.8)	PCV (2014)
<i>Germany</i>	6.6% (1.7 - 17.3)	Rotavirus (2013)
<i>Ghana</i>	80.8% (76.0 - 84.8)	Rotavirus, PCV (2012)
<i>Greece</i>	6.0% (1.4 - 16.1)	Rotavirus (2011)
<i>Greenland</i>	-	PCV (2007)
<i>Grenada</i>	-	HepB, Hib (2000)
<i>Guam</i>	-	-
<i>Guatemala</i>	64.9% (58.3 - 70.6)	PCV (2012)
<i>Guinea</i>	-	Hib (2008)
<i>Guinea-Bissau</i>	61.8% (53.7 - 67.7)	Rotavirus, PCV (2015)
<i>Guyana</i>	70.6% (62.9 - 77.3)	PCV (2011)
<i>Haiti</i>	-	Rotavirus (2014)
<i>Honduras</i>	79.4% (72.2 - 85.2)	PCV (2011)
<i>Hungary</i>	-	PCV (2009)
<i>Iceland</i>	-	PCV (2011)
<i>India</i>	12.1% (6.1 - 17.6)	Rotavirus (2016)
<i>Indonesia</i>	-	Hib (2013)
<i>Iran</i>	-	Hib (2014)
<i>Iraq</i>	20.0% (8.5 - 32.8)	PCV (2017)
<i>Ireland</i>	0.7% (0.2 - 2.1)	Rotavirus (2016)
<i>Israel</i>	70.3% (44.9 - 85.8)	Rotavirus (2010)
<i>Italy</i>	1.1% (0.3 - 3.3)	Rotavirus (2016)
<i>Jamaica</i>	-	PCV (2010)
<i>Japan</i>	-	HepB (2016)
<i>Jordan</i>	-	Rotavirus (2015)
<i>Kazakhstan</i>	-	PCV (2010)
<i>Kenya</i>	55.4% (42.3 - 64.4)	Rotavirus (2014)
<i>Kiribati</i>	33.7% (25.2 - 40.8)	Rotavirus (2015)
<i>Kuwait</i>	-	PCV (2007)
<i>Kyrgyzstan</i>	-	PCV (2016)
<i>Laos</i>	-	PCV (2013)
<i>Latvia</i>	71.7% (49.7 - 85.5)	Rotavirus (2015)
<i>Lebanon</i>	-	PCV (2015)
<i>Lesotho</i>	66.6% (57.7 - 74.0)	Rotavirus (2017)
<i>Liberia</i>	42.7% (35.9 - 49.9)	Rotavirus (2016)
<i>Libya</i>	70.7% (52.9 - 80.5)	Rotavirus, PCV (2013)
<i>Lithuania</i>	-	PCV (2014)

<i>Luxembourg</i>	51.5% (28.8 - 69.2)	Rotavirus (2006)
<i>Macedonia</i>	-	Hib (2008)
<i>Madagascar</i>	61.2% (51.5 - 69.1)	Rotavirus (2014)
<i>Malawi</i>	69.4% (63.5 - 74.5)	Rotavirus (2012)
<i>Malaysia</i>	-	Hib (2002)
<i>Maldives</i>	-	Hib (2012)
<i>Mali</i>	38.0% (32.5 - 43.3)	Rotavirus (2014)
<i>Malta</i>	-	HepB (2005)
<i>Marshall Islands</i>	16.2% (7.4 - 25.3)	Rotavirus, PCV (2009)
<i>Mauritania</i>	49.7% (42.4 - 57.0)	Rotavirus (2014)
<i>Mauritius</i>	41.6% (24.8 - 54.9)	PCV (2016)
<i>Mexico</i>	66.0% (56.8 - 73.7)	PCV (2008)
<i>Moldova</i>	30.7% (14.6 - 46.3)	PCV (2013)
<i>Mongolia</i>	-	PCV (2016)
<i>Montenegro</i>	-	HepB, Hib (2006)
<i>Morocco</i>	85.0% (75.8 - 91.1)	Rotavirus, PCV (2010)
<i>Mozambique</i>	66.6% (58.2 - 73.1)	Rotavirus (2015)
<i>Myanmar</i>	-	PCV (2016)
<i>Namibia</i>	63.2% (52.9 - 71.1)	Rotavirus, PCV (2014)
<i>Nepal</i>	-	PCV (2015)
<i>Netherlands</i>	-	PCV (2006)
<i>New Zealand</i>	55.3% (27.7 - 78.6)	Rotavirus (2014)
<i>Nicaragua</i>	92.1% (88.1 - 95.2)	PCV (2010)
<i>Niger</i>	50.4% (42.4 - 57.9)	Rotavirus, PCV (2014)
<i>Nigeria</i>	-	PCV (2015)
<i>North Korea</i>	-	Hib (2012)
<i>Northern Mariana Islands</i>	-	-
<i>Norway</i>	1.6% (0.4 - 4.7)	HepB (2017)
<i>Oman</i>	-	PCV (2008)
<i>Pakistan</i>	23.2% (9.5 - 34.7)	Rotavirus (2016)
<i>Palestine</i>	57.5% (46.4 - 66.3)	Rotavirus (2016)
<i>Panama</i>	58.2% (48.3 - 66.7)	PCV (2010)
<i>Papua New Guinea</i>	-	PCV (2013)
<i>Paraguay</i>	77.7% (69.3 - 83.3)	PCV (2012)
<i>Peru</i>	52.9% (44.1 - 59.9)	Rotavirus, PCV (2007)
<i>Philippines</i>	43.0% (35.0 - 50.2)	PCV (2013)
<i>Poland</i>	-	Hib (2004)
<i>Portugal</i>	-	PCV (2015)
<i>Puerto Rico</i>	43.9% (28.8 - 59.0)	Rotavirus (2006)
<i>Qatar</i>	79.2% (60.0 - 90.6)	Rotavirus (2009)
<i>Romania</i>	-	Hib (2010)
<i>Russian Federation</i>	-	PCV (2014)
<i>Rwanda</i>	90.9% (87.9 - 93.3)	Rotavirus (2012)
<i>Saint Lucia</i>	-	HepB, Hib (2002)
<i>Saint Vincent and the Grenadines</i>	-	HepB, Hib (2003)
<i>Samoa</i>	-	Hib (2007)
<i>Sao Tome and Principe</i>	65.5% (57.8 - 72.3)	Rotavirus (2016)
<i>Saudi Arabia</i>	85.3% (68.5 - 94.1)	Rotavirus (2013)
<i>Senegal</i>	68.3% (63.4 - 73.2)	Rotavirus (2014)
<i>Serbia</i>	-	Hib (2006)
<i>Seychelles</i>	43.4% (14.6 - 63.0)	Rotavirus, PCV (2017)
<i>Sierra Leone</i>	77.1% (71.5 - 81.8)	Rotavirus (2014)
<i>Singapore</i>	-	Hib (2013)
<i>Slovakia</i>	-	PCV (2009)

<i>Slovenia</i>	-	PCV (2015)
<i>Solomon Islands</i>	-	PCV (2015)
<i>Somalia</i>	-	HepB, Hib (2013)
<i>South Africa</i>	49.2% (35.8 - 57.6)	Rotavirus, PCV (2008)
<i>South Korea</i>	-	PCV (2014)
<i>South Sudan</i>	-	HepB, Hib (2014)
<i>Spain</i>	-	PCV (2016)
<i>Sri Lanka</i>	-	Hib (2008)
<i>Sudan</i>	64.0% (53.7 - 70.8)	PCV (2013)
<i>Suriname</i>	-	PCV (2017)
<i>Swaziland</i>	66.0% (54.5 - 74.2)	Rotavirus (2015)
<i>Sweden</i>	1.5% (0.3 - 4.1)	HepB, Rotavirus (2014)
<i>Switzerland</i>	-	HepB (2013)
<i>Syria</i>	-	Hib (2001)
<i>Taiwan</i>	-	PCV (2005)
<i>Tajikistan</i>	-	Rotavirus (2015)
<i>Tanzania</i>	72.6% (64.9 - 78.4)	Rotavirus, PCV (2013)
<i>Thailand</i>	-	HepB (1988)
<i>The Bahamas</i>	46.2% (23.5 - 62.0)	Rotavirus (2010)
<i>The Gambia</i>	78.7% (72.7 - 83.4)	Rotavirus (2013)
<i>Timor-Leste</i>	-	Hib (2012)
<i>Togo</i>	42.4% (35.4 - 49.1)	Rotavirus, PCV (2014)
<i>Tonga</i>	-	Hib (2005)
<i>Trinidad and Tobago</i>	-	PCV (2012)
<i>Tunisia</i>	-	Hib (2011)
<i>Turkey</i>	-	PCV (2008)
<i>Turkmenistan</i>	-	Hib (2010)
<i>Uganda</i>	9.3% (3.8 - 16.4)	Rotavirus (2017)
<i>Ukraine</i>	-	Hib (2006)
<i>United Arab Emirates</i>	80.2% (65.3 - 89.4)	Rotavirus (2014)
<i>United Kingdom</i>	59.0% (30.6 - 80.3)	HepB (2017)
<i>United States</i>	51.3% (41.1 - 59.9)	Rotavirus (2006)
<i>Uruguay</i>	-	PCV (2008)
<i>Uzbekistan</i>	86.5% (78.0 - 90.9)	PCV (2015)
<i>Vanuatu</i>	-	Hib (2011)
<i>Venezuela</i>	12.5% (6.6 - 19.8)	PCV (2014)
<i>Vietnam</i>	-	Hib (2010)
<i>Virgin Islands, U.S.</i>	39.8% (27.2 - 49.9)	Rotavirus (2006)
<i>Yemen</i>	37.1% (24.9 - 48.2)	Rotavirus (2012)
<i>Zambia</i>	76.6% (70.0 - 81.7)	PCV (2013)
<i>Zimbabwe</i>	65.9% (59.7 - 71.2)	Rotavirus (2014)