

Table S1. Estimate of Incidence Rates.

PNEUMOCOCCAL BACTEREMIA	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
CHIRA							
Shen et al. 2018 (CHIRA 2011)	2.66	8.35	0.94	2.28	0.32	0.87	0.98
CHIRA 2013-2015	0.14	0.29	0.31	0.55	0.15	0.12	0.16
<i>CHIRA Estimate</i>	<i>1.40</i>	<i>4.32</i>	<i>0.63</i>	<i>1.42</i>	<i>0.24</i>	<i>0.50</i>	<i>0.57</i>
NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	3.81	3.80	0.22	0.18	0.36	0.82	4.47
Zhou et al. 2018 (NHIRD 2007)	10.01	12.50	0.74	0.90	0.99	1.00	9.80
<i>NHIRD Estimate</i>	<i>6.91</i>	<i>8.15</i>	<i>0.48</i>	<i>0.54</i>	<i>0.68</i>	<i>0.91</i>	<i>7.14</i>
Chen et al.							
Hu et al. 2014	4.48	5.00	48.81	8.25	8.48	9.21	36.00
Caldwell et al. 2014	4.80	4.70	48.80	16.70	16.70	9.20	36.00
<i>Chen et al. Estimate</i>	<i>4.64</i>	<i>4.85</i>	<i>48.81</i>	<i>12.48</i>	<i>12.59</i>	<i>9.21</i>	<i>36.00</i>
<i>Che et al. 2014</i>	<i>10.20</i>	<i>9.47</i>	-----	-----	-----	-----	-----
<i>Maurer et al. 2016</i>	<i>1.98</i>	<i>1.98</i>	-----	-----	-----	-----	-----
<i>Pneumococcal Bacteremia Estimate</i>	<i>5.03</i>	<i>5.75</i>	<i>16.64</i>	<i>4.81</i>	<i>4.50</i>	<i>3.54</i>	<i>14.57</i>
PNEUMOCOCCAL MENINGITIS	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
CHIRA							
Shen et al. 2018 (CHIRA 2011)	1.25	0.58	1.10	0.64	0.24	0.20	0.10
CHIRA 2013-2015	0.05	0.03	0.07	0.03	0.03	0.02	0.02
<i>CHIRA Estimate</i>	<i>0.65</i>	<i>0.31</i>	<i>0.59</i>	<i>0.34</i>	<i>0.14</i>	<i>0.11</i>	<i>0.06</i>
NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	1.48	0.53	0.11	0.04	0.04	0.08	0.14
Zhou et al. 2018 (NHIRD 2007)	3.89	1.70	0.36	0.20	0.11	0.10	0.20
<i>NHIRD Estimate</i>	<i>2.69</i>	<i>1.12</i>	<i>0.24</i>	<i>0.12</i>	<i>0.08</i>	<i>0.09</i>	<i>0.17</i>
Chen et al.							
Hu et al. 2014	2.82	0.33	14.58	2.46	2.83	3.41	6.86
Caldwell et al. 2014	2.50	0.60	14.60	5.20	.20	3.40	6.90
<i>Chen et al. Estimate</i>	<i>2.66</i>	<i>0.47</i>	<i>14.59</i>	<i>3.83</i>	<i>4.02</i>	<i>3.41</i>	<i>6.88</i>
<i>Che et al. 2014</i>	<i>5.10</i>	<i>4.73</i>	-----	-----	-----	-----	-----
<i>Maurer et al. 2016</i>	<i>1.33</i>	<i>1.33</i>	-----	-----	-----	-----	-----
<i>Pneumococcal Meningitis Estimate</i>	<i>2.49</i>	<i>1.59</i>	<i>5.14</i>	<i>1.43</i>	<i>1.41</i>	<i>1.20</i>	<i>2.37</i>
PNEUMONIA - INPATIENT	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
CHIRA							
Shen et al. 2018 (CHIRA 2011)	14,857	14,059	13,370	2,193	1,131	1,252	1,894
CHIRA 2013-2015	24,581	25,361	12,683	2,038	1,248	1,189	1,818
<i>CHIRA Estimate</i>	<i>19,719</i>	<i>19,710</i>	<i>13,027</i>	<i>2,116</i>	<i>1,190</i>	<i>1,221</i>	<i>1,856</i>

NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	4,625	3,884	459	104	118	367	2,849
Zhou et al. 2018 (NHIRD 2007)	1,274	1,477	210	115	104	244	2,008
<i>NHIRD Estimate</i>	2,949	2,681	334	110	111	305	2,428
LITERATURE							
Hu et al. 2014	4,239	3,830	664	113	215	443	3,700
Caldwell et al. 2014	4,239	3,830	664	164	164	443	3,700
<i>Literature Estimate</i>	4,239	3,830	664	139	190	443	3,700
<i>Pneumonia – Inpatient Estimate</i>	8,969	8,740	4,675	788	497	656	2,661
PNEUMONIA - OUTPATIENT	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
CHIRA							
Shen et al. 2018 (CHIRA 2011)	2,165	2,238	861	254	220	177	190
CHIRA 2013-2015	970	1,045	425	118	112	99	104
<i>CHIRA Estimate</i>	1,568	1,642	643	186	166	138	147
NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	31,633	38,109	6,272	1,516	1,814	2,967	10,008
Zhou et al. 2018 (NHIRD 2007)	16,421	21,605	7,020	1,194	501	895	3,317
<i>NHIRD Estimate</i>	24,027	29,857	6,646	1,355	1,158	1,931	6,663
<i>Pneumonia – Outpatient Estimate</i>	12,797	15,749	3,644	771	662	1,035	3,405
OTITIS MEDIA (MILD)	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
<i>CHIRA 2013-2015</i>	2.32	29.45	24.87	5.39	5.89	3.17	1.63
NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	15,866	17,279	3,978	1,247	1,528	1,892	2,085
Zhou et al. 2018 (NHIRD 2007)	17,657	13,784	-----	-----	-----	-----	-----
<i>NHIRD Estimate</i>	16,762	15,531	3,978	1,247	1,528	1,892	2,085
<i>Shen et al. 2018</i>	10,678	10,678	-----	-----	-----	-----	-----
<i>Otitis Media (Mild) Estimate</i>	9,147	8,746	2,002	626	767	948	1,043
OTITIS MEDIA (MODERATE/SEVERE)	0 - < 2	2 - 4	5 - 17	18 - 34	35 - 49	50 - 64	65+
<i>CHIRA 2013-2015</i>	15.53	105.07	98.43	10.62	8.39	4.99	2.19
NHIRD							
Mo et al. 2016 (NHIRD 2002-2007)	6,894	6,202	889	134	252	343	361
Zhou et al. 2018 (NHIRD 2007)	2,050	1,704	-----	-----	-----	-----	-----
<i>NHIRD Estimate</i>	4,472	3,953	889	134	252	343	361
<i>Shen et al. 2018</i>	3,891	3,891	-----	-----	-----	-----	-----
<i>Otitis Media (Mild) Estimate</i>	2,793	2,650	494	72	130	174	182