

Supplementary Table 3: Annual HBsAg test positivity rates by gender, age group and province, 2015 to 2019

Testing Year	2015 (%)	2016 (%)	2017 (%)	2018 (%)	2019 (%)	2015 - 2019					
						Median (%)	Lower 95% CI	Upper 95% CI	Kendall's tau <sup>a</sup>	Kendall's p-value <sup>a</sup>	Mann-Whitney p-value <sup>b</sup>
<b>Annual</b>	9.77	9.49	9.28	8.48	8.09	<b>9.28</b>	8.09	9.77	-1.0	<b>0.0275*</b>	-
<b>Female</b>	7.23	7.06	6.90	6.06	5.78	<b>6.90</b>	5.78	7.23	-1.0	<b>0.0275*</b>	<b>0.0079*</b>
<b>Male</b>	13.90	13.41	13.09	12.33	11.95	<b>13.09</b>	11.95	13.90	-1.0	<b>0.0275*</b>	-
<b>Age Group 0-4</b>	4.60	5.13	6.16	4.32	3.82	<b>4.60</b>	3.82	6.16	-0.4	0.4624	-
<i>Female</i>	3.94	4.56	5.91	3.83	3.43	<b>3.94</b>	3.43	5.91	-	-	0.1508
<i>Male</i>	5.32	5.66	6.64	4.78	4.40	<b>5.32</b>	4.40	6.64	-	-	-
<b>Age Group 5-9</b>	2.72	3.00	3.08	1.87	1.67	<b>2.72</b>	1.67	3.08	-0.4	0.4624	-
<i>Female</i>	2.32	2.59	2.72	1.59	1.33	<b>2.32</b>	1.33	2.72	-	-	0.2222
<i>Male</i>	3.01	3.63	3.47	2.17	2.18	<b>3.01</b>	2.17	3.63	-	-	-
<b>Age Group 10-14</b>	3.08	2.71	3.05	1.94	2.15	<b>2.71</b>	1.94	3.08	-0.6	0.2207	-
<i>Female</i>	3.23	2.44	2.45	1.84	1.95	<b>2.44</b>	1.84	3.23	-	-	0.3095
<i>Male</i>	2.94	3.26	4.17	2.05	2.43	<b>2.94</b>	2.05	4.17	-	-	-
<b>Age Group 15-19</b>	5.04	4.37	4.25	3.24	2.39	<b>4.25</b>	2.39	5.04	-1.0	<b>0.0275*</b>	-
<i>Female</i>	4.77	4.42	4.09	2.95	2.11	<b>4.09</b>	2.11	4.77	-	-	0.3095
<i>Male</i>	6.09	4.17	4.81	4.22	3.56	<b>4.22</b>	3.56	6.09	-	-	-
<b>Age Group 20-24</b>	9.18	8.41	7.20	5.26	4.17	<b>7.20</b>	4.17	9.18	-1.0	<b>0.0275*</b>	-
<i>Female</i>	7.63	7.17	6.08	4.52	3.73	<b>6.08</b>	3.73	7.63	-	-	0.0556
<i>Male</i>	14.88	13.05	11.57	8.07	5.86	<b>11.57</b>	5.86	14.88	-	-	-
<b>Age Group 25-29</b>	10.29	9.75	9.39	8.42	7.69	<b>9.39</b>	7.69	10.29	-1.0	<b>0.0275*</b>	-
<i>Female</i>	8.02	7.57	7.37	6.72	6.13	<b>7.37</b>	6.13	8.02	-	-	<b>0.0079*</b>
<i>Male</i>	15.72	15.15	14.40	12.75	11.63	<b>14.40</b>	11.63	15.72	-	-	-
<b>Age Group 30-34</b>	10.77	10.41	10.20	9.53	9.53	<b>10.20</b>	9.53	10.77	-0.8	0.0864	-
<i>Female</i>	7.85	7.69	7.77	6.92	6.85	<b>7.69</b>	6.85	7.85	-	-	<b>0.0079*</b>
<i>Male</i>	15.86	15.03	14.39	13.98	14.17	<b>14.39</b>	13.98	15.86	-	-	-
<b>Age Group 35-39</b>	11.40	11.08	10.86	10.54	10.27	<b>10.86</b>	10.27	11.40	-1.0	<b>0.0275*</b>	-
<i>Female</i>	7.86	7.58	7.71	7.11	7.19	<b>7.58</b>	7.11	7.86	-	-	<b>0.0079*</b>
<i>Male</i>	16.07	15.74	15.09	15.02	14.51	<b>15.09</b>	14.51	16.07	-	-	-
<b>Age Group 40-44</b>	10.99	10.67	10.80	10.80	10.52	<b>10.80</b>	10.52	10.99	-0.6	0.2207	-
<i>Female</i>	7.39	7.35	7.18	7.32	7.20	<b>7.32</b>	7.18	7.39	-	-	<b>0.0079*</b>
<i>Male</i>	15.22	14.37	14.75	14.53	14.19	<b>14.53</b>	14.19	15.22	-	-	-
<b>Age Group 45-49</b>	9.98	10.11	10.04	9.78	9.77	<b>9.98</b>	9.77	10.11	-0.6	0.2207	-
<i>Female</i>	6.69	6.91	6.69	6.21	6.69	<b>6.69</b>	6.21	6.91	-	-	<b>0.0079*</b>
<i>Male</i>	13.76	13.62	13.52	13.51	12.98	<b>13.52</b>	12.98	13.76	-	-	-
<b>Age Group 50-54</b>	8.80	8.71	8.85	8.52	8.88	<b>8.80</b>	8.52	8.88	+0.2	0.8065	-
<i>Female</i>	6.21	6.50	6.51	5.82	6.07	<b>6.21</b>	5.82	6.51	-	-	<b>0.0079*</b>
<i>Male</i>	11.92	11.37	11.49	11.55	11.95	<b>11.55</b>	11.37	11.95	-	-	-
<b>Age Group 55-59</b>	7.68	7.72	7.79	7.20	7.49	<b>7.68</b>	7.20	7.79	-0.2	0.8065	-
<i>Female</i>	5.50	5.82	5.47	5.01	5.20	<b>5.47</b>	5.01	5.82	-	-	<b>0.0079*</b>
<i>Male</i>	10.24	9.90	10.37	9.60	10.13	<b>10.13</b>	9.60	10.37	-	-	-
<b>Age Group 60+</b>	7.01	6.90	7.10	5.73	5.76	<b>6.90</b>	5.73	7.10	-0.4	0.4624	-
<i>Female</i>	5.56	5.41	5.97	4.37	4.28	<b>5.41</b>	4.28	5.97	-	-	<b>0.0079*</b>
<i>Male</i>	8.68	8.54	8.27	7.22	7.48	<b>8.27</b>	7.22	8.68	-	-	-
<b>Age Group 15-49</b>	10.29	10.11	10.04	9.53	9.53	<b>10.04</b>	9.53	10.29	-	-	-
<b>Female</b>	<b>7.63</b>	<b>7.35</b>	<b>7.18</b>	<b>6.72</b>	<b>6.69</b>	<b>7.18</b>	<b>6.69</b>	<b>7.63</b>	-	-	-
<b>Male</b>	<b>15.22</b>	<b>14.37</b>	<b>14.39</b>	<b>13.51</b>	<b>12.98</b>	<b>14.37</b>	<b>12.98</b>	<b>15.22</b>	-	-	-
<b>Province</b>											
<i>Eastern Cape</i>	8.95	8.90	9.12	8.96	8.25	<b>8.95</b>	8.25	9.12	-0.2	0.8065	-
<i>Free State</i>	9.33	9.05	8.14	7.94	8.82	<b>8.82</b>	7.94	9.33	-0.6	0.2207	-
<i>Gauteng</i>	8.91	8.63	8.26	7.62	7.34	<b>8.26</b>	7.34	8.91	-1.0	<b>0.0275*</b>	-
<i>Kwazulu-Natal</i>	10.65	9.97	9.42	8.71	8.28	<b>9.42</b>	8.28	10.65	-1.0	<b>0.0275*</b>	-
<i>Limpopo</i>	19.25	16.26	19.52	11.93	9.50	<b>16.26</b>	9.50	19.52	-0.6	0.2207	-
<i>Mpumalanga</i>	15.41	14.93	13.56	12.24	12.37	<b>13.56</b>	12.24	15.41	-0.8	0.0864	-
<i>North West</i>	10.82	9.51	8.79	8.95	8.86	<b>8.95</b>	8.79	10.82	-0.6	0.2207	-
<i>Northern Cape</i>	6.39	6.91	6.92	7.20	6.42	<b>6.91</b>	6.39	7.20	+0.4	0.4624	-
<i>Western Cape</i>	7.48	8.00	7.82	7.67	7.37	<b>7.67</b>	7.37	8.00	-0.4	0.4624	-

<sup>a</sup> Kendall's tau and p-values of correlation analyses in trends of HBsAg test positivity rates over time

<sup>b</sup> Mann-Whitney p-values generated from comparison of HBsAg test positivity rates between females and males by age group

\*P-values < 0.05 in bold