

Supplementary Table 5: Annual HBCoreIgM 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 ^a | Kendall's p-value ^a | Mann-Whitney p-value ^b |
| Annual | 1.92 | 1.57 | 1.35 | 1.47 | 1.68 | 1.57 | 1.35 | 1.92 | -0.2 | 0.8065 | - |
| Female | 1.74 | 1.48 | 1.20 | 1.38 | 1.57 | 1.48 | 1.20 | 1.74 | -0.2 | 0.8065 | - |
| Male | 2.16 | 1.70 | 1.54 | 1.59 | 1.82 | 1.70 | 1.54 | 2.16 | -0.2 | 0.8065 | 0.0952 |
| Age Group 0-4 | 0.15 | 0.25 | 0.15 | 0.27 | 0.38 | 0.25 | 0.15 | 0.38 | +0.8 | 0.0864 | - |
| <i>Female</i> | 0.00 | 0.17 | 0.16 | 0.58 | 0.21 | 0.17 | 0.00 | 0.58 | - | - | - |
| <i>Male</i> | 0.30 | 0.35 | 0.16 | 0.00 | 0.53 | 0.30 | 0.00 | 0.53 | - | - | 0.8333 |
| Age Group 5-9 | 0.35 | 0.24 | 0.38 | 0.18 | 0.00 | 0.24 | 0.00 | 0.38 | -0.6 | 0.2207 | - |
| <i>Female</i> | 0.43 | 0.21 | 0.24 | 0.36 | 0.00 | 0.24 | 0.00 | 0.43 | - | - | - |
| <i>Male</i> | 0.26 | 0.27 | 0.55 | 0.00 | 0.00 | 0.26 | 0.00 | 0.55 | - | - | >0.9999 |
| Age Group 10-14 | 0.26 | 0.26 | 0.17 | 0.24 | 0.30 | 0.26 | 0.17 | 0.30 | 0.0 | >0.9999 | - |
| <i>Female</i> | 0.00 | 0.14 | 0.29 | 0.40 | 0.00 | 0.14 | 0.00 | 0.40 | - | - | - |
| <i>Male</i> | 0.74 | 0.47 | 0.00 | 0.00 | 0.72 | 0.47 | 0.00 | 0.74 | - | - | 0.3819 |
| Age Group 15-19 | 1.80 | 1.60 | 1.53 | 1.71 | 1.21 | 1.60 | 1.21 | 1.80 | -0.6 | 0.2207 | - |
| <i>Female</i> | 1.96 | 1.70 | 1.58 | 1.90 | 1.63 | 1.70 | 1.58 | 1.96 | - | - | - |
| <i>Male</i> | 1.45 | 1.36 | 1.33 | 1.27 | 0.41 | 1.33 | 0.41 | 1.45 | - | - | 0.0079* |
| Age Group 20-24 | 4.89 | 3.90 | 3.31 | 3.12 | 2.92 | 3.31 | 2.92 | 4.89 | -1.0 | 0.0275* | - |
| <i>Female</i> | 4.08 | 3.10 | 2.61 | 2.66 | 2.71 | 2.71 | 2.61 | 4.08 | - | - | - |
| <i>Male</i> | 7.04 | 6.59 | 5.70 | 4.33 | 3.43 | 5.70 | 3.43 | 7.04 | - | - | 0.0159* |
| Age Group 25-29 | 3.58 | 2.96 | 2.44 | 2.68 | 4.19 | 2.96 | 2.44 | 4.19 | 0.0 | >0.9999 | - |
| <i>Female</i> | 2.72 | 2.31 | 1.84 | 2.06 | 3.36 | 2.31 | 1.84 | 3.36 | - | - | - |
| <i>Male</i> | 5.37 | 4.29 | 3.64 | 3.89 | 5.69 | 4.29 | 3.64 | 5.69 | - | - | 0.0079* |
| Age Group 30-34 | 1.95 | 1.62 | 1.48 | 1.95 | 2.20 | 1.95 | 1.48 | 2.20 | 0.4 | 0.4624 | - |
| <i>Female</i> | 1.59 | 1.30 | 1.09 | 1.67 | 1.91 | 1.59 | 1.09 | 1.91 | - | - | - |
| <i>Male</i> | 2.50 | 2.09 | 2.07 | 2.35 | 2.54 | 2.35 | 2.07 | 2.54 | - | - | 0.0079* |
| Age Group 35-39 | 1.16 | 0.97 | 0.97 | 1.26 | 1.43 | 1.16 | 0.97 | 1.43 | 0.4 | 0.4624 | - |
| <i>Female</i> | 0.95 | 0.94 | 0.76 | 1.15 | 1.29 | 0.95 | 0.76 | 1.29 | - | - | - |
| <i>Male</i> | 1.43 | 1.02 | 1.23 | 1.39 | 1.54 | 1.39 | 1.02 | 1.54 | - | - | 0.0556 |
| Age Group 40-44 | 0.83 | 0.80 | 0.54 | 0.77 | 1.00 | 0.80 | 0.54 | 1.00 | 0.0 | >0.9999 | - |
| <i>Female</i> | 0.73 | 0.88 | 0.46 | 0.68 | 0.89 | 0.73 | 0.46 | 0.89 | - | - | - |
| <i>Male</i> | 0.94 | 0.72 | 0.60 | 0.84 | 1.12 | 0.84 | 0.60 | 1.12 | - | - | 0.5476 |
| Age Group 45-49 | 0.72 | 0.68 | 0.67 | 0.64 | 0.75 | 0.68 | 0.64 | 0.75 | -0.2 | 0.8065 | - |
| <i>Female</i> | 0.70 | 0.72 | 0.65 | 0.55 | 0.98 | 0.70 | 0.55 | 0.98 | - | - | - |
| <i>Male</i> | 0.73 | 0.65 | 0.67 | 0.70 | 0.55 | 0.67 | 0.55 | 0.73 | - | - | 0.7381 |
| Age Group 50-54 | 0.96 | 0.46 | 0.50 | 0.43 | 0.76 | 0.50 | 0.43 | 0.96 | -0.2 | 0.8065 | - |
| <i>Female</i> | 0.93 | 0.55 | 0.38 | 0.35 | 0.60 | 0.55 | 0.35 | 0.93 | - | - | - |
| <i>Male</i> | 1.03 | 0.34 | 0.59 | 0.51 | 0.93 | 0.59 | 0.34 | 1.03 | - | - | 0.7302 |
| Age Group 55-59 | 0.71 | 0.58 | 0.46 | 0.65 | 0.72 | 0.65 | 0.46 | 0.72 | 0.2 | 0.8065 | - |
| <i>Female</i> | 0.47 | 0.68 | 0.76 | 0.63 | 0.47 | 0.63 | 0.47 | 0.76 | - | - | - |
| <i>Male</i> | 0.98 | 0.47 | 0.17 | 0.68 | 0.97 | 0.68 | 0.17 | 0.98 | - | - | 0.7381 |
| Age Group 60+ | 0.50 | 0.50 | 0.53 | 0.47 | 0.47 | 0.50 | 0.47 | 0.53 | -0.4 | 0.4624 | - |
| <i>Female</i> | 0.53 | 0.55 | 0.66 | 0.42 | 0.24 | 0.53 | 0.24 | 0.66 | - | - | - |
| <i>Male</i> | 0.48 | 0.40 | 0.36 | 0.53 | 0.69 | 0.48 | 0.36 | 0.69 | - | - | 0.8810 |
| Province | | | | | | | | | | | |
| <i>Eastern Cape</i> | 0.79 | 0.73 | 0.96 | 2.37 | 4.34 | 0.96 | 0.73 | 4.34 | +0.8 | 0.0864 | - |
| <i>Free State</i> | 1.40 | 1.16 | 0.91 | 0.73 | 1.60 | 1.16 | 0.73 | 1.60 | -0.2 | 0.8065 | - |
| <i>Gauteng</i> | 1.31 | 1.16 | 0.92 | 1.08 | 1.17 | 1.16 | 0.92 | 1.31 | -0.2 | 0.8065 | - |
| <i>Kwazulu-Natal</i> | 4.72 | 4.96 | 3.74 | 2.76 | 2.97 | 3.74 | 2.76 | 4.96 | -0.6 | 0.2207 | - |
| <i>Limpopo</i> | 2.98 | 1.80 | 1.04 | 1.26 | 1.40 | 1.40 | 1.04 | 2.98 | -0.4 | 0.4624 | - |
| <i>Mpumalanga</i> | 8.62 | 4.81 | 2.98 | 3.59 | 2.57 | 3.59 | 2.57 | 8.62 | -0.8 | 0.0864 | - |
| <i>North West</i> | 1.56 | 1.66 | 1.18 | 1.11 | 1.10 | 1.18 | 1.10 | 1.66 | -0.8 | 0.0864 | - |
| <i>Northern Cape</i> | 1.14 | 0.86 | 0.64 | 1.12 | 0.54 | 0.86 | 0.54 | 1.14 | -0.6 | 0.2207 | - |
| <i>Western Cape</i> | 3.19 | 2.68 | 2.85 | 2.45 | 2.53 | 2.68 | 2.45 | 3.19 | -0.1 | 0.2207 | - |

^a Kendall's tau and p-values of correlation analyses in trends of HBCoreIgM test positivity rates over time

^b Mann-Whitney p-values generated from comparison of HBCoreIgM test positivity rates between females and males by age group

*P-values < 0.05 in bold