**Supplemantary 2**

**Data Result of SARS-CoV-2 RDT-Ab with RT-PCR**

**Table 2.1** Data Result RDT-Ab IgM SARS-CoV-2

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | **RT-PCR** |  |
| **RDT-Ab IgM SARS-CoV-2** |   | Positive | Negative | Total |
| Positive | 92 | 105 | 197 |
| Negative | 49 | 896 | 945 |
| Total | 141 | 1001 |  |

Description :

$$Se \left(\%\right)= \frac{a}{(a+c)}=\frac{92}{141}=62,25\%$$

$$Sp (\%)=\frac{d}{\left(b+d\right)}=\frac{896}{1001}=89,51\%$$

$$NDP (\%)= \frac{a}{\left(a+b\right)}=\frac{92}{197}=46,70\%$$

$$NDN (\%)=\frac{d}{\left(c+d\right)}=\frac{896}{945}=94,81\%$$

$$RKP=\frac{Sensitivity}{\left(1-Specificity\right)}=\frac{0,622}{(1-0,895)}=6,22$$

$$RKN= \frac{1-Sensitivity}{Specificity}=\frac{(1-0,622)}{0,895}=0,39$$

**Table 2.2** Data Result RDT-Ab IgG SARS-CoV-2

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | **RT-PCR** |   |
| **RDT-Ab IgG SARS-CoV-2** |   | Positive | Negative |  Total |
| Positive | 82 | 70 | 152 |
| Negative | 59 | 931 | 990 |
|  Total | 141 | 1001 |   |

Description :

$$Se\left(\%\right)= \frac{a}{(a+c)}=\frac{82}{141}=58,16\%$$

$$Sp(\%)=\frac{d}{\left(b+d\right)}=\frac{931}{1001}=93,01\%$$

$$NDP(\%)= \frac{a}{\left(a+b\right)}=\frac{82}{152}=53,95\%$$

$$NDN(\%)=\frac{d}{\left(c+d\right)}=\frac{931}{990}=94,04\%$$

$$RKP=\frac{Sensitivity}{\left(1-Specificity\right)}=\frac{0,581}{(1-0,930)}=8,32$$

$$RKN= \frac{1-Sensitivity}{Specificity}=\frac{(1-0,581)}{0,930}=0,45$$

**Table 2.3** Data Result RDT-Ab IgM and IgG SARS-CoV-2

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | **RT-PCR** |  |
| **RDT-Ab IgM dan IgG SARS-CoV-2** |   | Positive | Negative | Total |
| Positive | 76 | 58 | 134 |
| Negative | 65 | 943 | 1008 |
| Total | 141 | 1001 |   |

Description :

$$Se\left(\%\right)= \frac{a}{(a+c)}=\frac{76}{141}=53,9\%$$

$$Sp(\%)=\frac{d}{\left(b+d\right)}=\frac{943}{1001}=94,21\%$$

$$NDP(\%)= \frac{a}{\left(a+b\right)}=\frac{76}{134}=56,72\%$$

$$NDN(\%)=\frac{d}{\left(c+d\right)}=\frac{943}{1008}=93,55\%$$

$$RKP=\frac{Sensitivity}{\left(1-Specificity\right)}=\frac{0,539}{(1-0,942)}=9,30$$

$$RKN= \frac{1-Sensitivity}{Specificity}=\frac{(1-0,539)}{0,942}=0,49$$

**Table 2.4** Data Result RDT-Ab IgM and/or IgG SARS-CoV-2

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | **RT-PCR** |   |
| **RDT-Ab IgM dan/atau IgG SARS-CoV-2** |   | Positive | Negative | Total  |
| Positive | 98 | 117 | 215 |
| Negative | 43 | 884 | 927 |
|  Total | 141 | 1001 |   |

Description :

$$Se\left(\%\right)= \frac{a}{(a+c)}=\frac{98}{141}=69,50\%$$

$$Sp(\%)=\frac{d}{\left(b+d\right)}=\frac{884}{1001}=88,31\%$$

$$NDP(\%)= \frac{a}{\left(a+b\right)}=\frac{98}{215}=45,58\%$$

$$NDN(\%)=\frac{d}{\left(c+d\right)}=\frac{884}{927}=95,36\%$$

$$RKP=\frac{Sensitivity}{\left(1-Specificity\right)}=\frac{0,695}{(1-0,883)}=5,95$$

$$RKN= \frac{1-Sensitivity}{Specificity}=\frac{(1-0,695)}{0,883}=0,35$$