TABLE I

Concordance between gingival fluid swab and nasopharyngeal swab (NP) specimens in reverse transcription real-time polymerase chain reaction (RT-qPCR)-based Coronavirus disease 2019 (COVID-19) diagnosis

| RT-qPCR result | Gingival swab positive (agreement %) | Gingival swab inconclusive (agreement %) | Gingival swab negative (agreement %) | Total (%) |
|---|---|---|---|---|
| NP swab positive | 4 (15.38) | 2 | 20 | 26 (16.56) |
| NP swab inconclusive | 0 | 0 (0) | 1 | 1 (0.64) |
| NP swab negative | 0 | 0 | 130 (100) | 130 (82.8) |
| Total | 4 | 2 | 151 | 157 |

TABLE II

N1, N2 and reverse transcription real-time polymerase chain reaction (RT-qPCR) cycle threshold (Ct) values for gingival fluid swab and nasopharyngeal swab (NP) specimens

| | N1[a] | | N2[b] | | RP[c] | |
|---|---|---|---|---|---|---|
| Specimen | Mean CT (SD) | 95% CI | Mean Ct (SD) | 95% CI | Mean Ct (SD) | 95% CI |
| NP swab | 24.85 ± 6.482 | 22.33-27.36 | 26.30 ± 7.147 | 23.58-29.02 | 25.45(2.097) | 25.15-25.78 |
| Gingival swab | 36.20 ± 3.20 | 33.24-39.16 | 37.18 ± 3.032 | 35.01-39.35 | 27.36(1.924) | 27.03-27.70 |

*a*: Wilcoxon matched pairs test p = 0.0313; *b*: two-tailed paired T test p = 0.0010; *c*: Wilcoxon matched pairs test p < 0.0001. SD: standard deviation; CI: confidence interval; RP: RNase P.

TABLE III

Concordance between saliva and nasopharyngeal swab (NP) specimens in reverse transcription real-time polymerase chain reaction (RT-qPCR)-based Coronavirus disease 2019 (COVID-19) diagnosis

| RT-qPCR result | Saliva positive (agreement %) | Saliva inconclusive (agreement %) | Saliva negative (agreement %) | Total (%) |
|---|---|---|---|---|
| NP swab positive | 48 (67.61) | 3 | 20 | 71 (34.29) |
| NP swab inconclusive | 1 | 3 (42.86) | 3 | 7 (3.38) |
| NP swab negative | 4 | 3 | 122 (96.83) | 129 (62.32) |
| Total | 52 | 9 | 145 | 207 |

TABLE IV

N1, N2 and reverse transcription real-time polymerase chain reaction (RT-qPCR) cycle threshold (Ct) values for gingival fluid swab and nasopharyngeal swab (NP) specimens

| | N1* | | N2* | | RP* | |
|---|---|---|---|---|---|---|
| Specimen | Mean CT (SD) | 95% CI | Mean Ct (SD) | 95% CI | Mean Ct (SD) | 95% CI |
| NP swab | 27.34 (7.797) | 25.58-29.09 | 27.35 (8.004) | 25.81-29.49 | 26.68 (4.803) | 25.01-26.35 |
| Saliva | 30.50 (5.880) | 29.08-31.32 | 30.67 (5.547) | 29.26-32.08 | 22.56 (3.008) | 22.15-22.98 |

**: Wilcoxon matched pairs test p < 0.0001; SD: standard deviation; CI: confidence interval; RP: RNase P.

*UFRJ-Covid19 Workgroup members

| | |
|---|---|
| Aliny S Carvalho | Juliana C de Menezes |
| Anna CP Castiñeiras | Juliana TS Fortuna |
| Átila D Rossi | Karen S Pereira |
| Bruno Clarkson | Karyne F Monteiro |
| Bruno E Dematté | Lendel C da Costa |
| Camila A Velozo | Kissyla HDP França |
| Camila Nacif | Laura Z Renault |
| Camille Victória | Letícia A Corrêa |
| Leal C de Silva | Liane J Ribeiro |
| Carolina M Voloch | Liliane TF Cavalcante |
| Caroline M Nascimento | Luana S Costa |
| Carolyne LAL da Graça | Lucas M Millioni |
| Cíntia Policarpo | Luciana J da Costa |
| Cynthia C Cardoso | Luisa M Higa |
| Ekaterini S Goudouris | Manoel I do Nascimento |
| Elaine S da Costa | Marcelo A de Souza |
| Elisangela C da Silva | Marcelo CP Tôrres |
| Fábio L Monteiro | Marcela S Durães |
| Fabio HC Medeiros | Mariana F Campos |
| Fernanda L dos Santos | Mariane T de Menezes |
| Fernando L de Castro | Marisa S Correia |
| Filipe RR Moreira | Mateus R de Queiroz |
| Francine B Schiffler | Matheus AC Cosentino |
| Gabriela B Kraychete | Mayla GM de Melo |
| Gabriele S da Cunha | Mirela D'arc |
| Gisely NB da Cunha | Pedro HC da Paz |
| Gustavo PD da Silva | Raquel F Coelho |
| Harrison J Westgarth | Richard A Maia |
| Helena A de Oliveira | Rodrigo M Brindeiro |
| Helena K Toma | Romina C Ferreira |
| Helena T Scheid | Sérgio M Lisboa |
| Huang L Fang | Thamiris S Miranda |
| Inês C Gonçalves | Victor A Ota |
| Ingrid C da Silva | Victoria C Bastos |
| Joissy A de Oliveira | Viviane G Gomes |