Supplementary Material

**Supplementary Table 1.** Characteristics of selected point-of-care tests (POCTs).

| **POCT COMMERCIAL NAME** | **METHOD** | **TIME TO RESULT (min)** | **VIRUSES TESTED** | **SENSITIVITY (%)** | **SPECIFICITY (%)** | **PPA (%)** | **NPA (%)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NUCLEIC ACID-BASED POCTs** |
| **Abbott Alere™ i (ID Now™) Influenza A&B and RSV\***(*Abbot Alere ID NOW™;* Basile et al., 2018) | LAMP NEAR | 13-15  | Influenza A, BRSV (A, B) | Flu A (77.8-97.9)Flu B (75-92)RSV (98.6-100) | Flu A (62.5-100)Flu B (53.6-99)RSV (97-98) | N/A | N/A |
| **Roche Cobas® Liat® Influenza A/B & RSV** (*Roche cobas® Liat® Influenza A/B & RSV;* Basile et al., 2018) | rRT-PCR | 20 | Influenza A, BRSV | N/A | N/A | Flu A (98.4-99.6)Flu B (97.9-99.35)RSV (96.8-97.8) | Flu A (96.5)Flu B (99.4)RSV (98.4) |
| **Roche Cobas® Influenza A/B** *(Roche cobas® Influenza A/B Assay, 2019)* | rRT-PCR | 20 | Influenza A,B | Flu A (97.5)Flu B (96.9) | Flu A (97.9)Flu B (97.9) | N/A | N/A |
| **Cepheid Xpert® Xpress Flu/RSV***(Basile et al., 2018; Loeffelholz et al., 2019)* | rRT-PCR | 20-30 | Influenza A, BRSV (A, B) | Flu A (97.8)Flu B (100)RSV (90.6) | Flu A (100)Flu B (99.4)RSV (99.4) | Flu A (100)Flu B (100)RSV (97.1) | Flu A (95.2)Flu B (99.5)RSV (99.6) |
| **Cepheid Xpert® Xpress SARS-CoV-2** *(Cepheid Xpert® Xpress SARS-CoV-2, 2020)* **#** | rRT-PCR | 45 | SARS-CoV-2 | N/A | N/A | SARS-CoV-2 (100) | SARS-CoV-2 (100) |
| **Genesystem GENECHECKER™ Ultra-Fast PCR System and Rapi:chip™ (Chip-based ultra-fast PCR with own primers)***(Kwon et al., 2018)* | RT-PCR | 23  | Influenza A, B  | N/A | N/A | N/A | N/A |
| **Mesabiotech™ Accula™ Influenza A&B and RSV\*** (*Mesabiotech™ Accula™ Flu A/Flu B Test Package Insert; Mesabiotech™ Accula™ RSV Test*) | RT-PCR | 30 | Influenza A (H1N1, H3N2), Influenza BRSV | Flu A (97)Flu B (94)RSV (90.2) | Flu A (94)Flu B (99)RSV (95.6) | N/A | N/A |
| **Sekisui Diagnostics SilarisTM Influenza A&B Test** (*Sekisui Diagnostics Silaris™ Influenza A&B Test*) | PCR | 30 | Influenza A (including H1N1pdm09, H3N2), Influenza B | Flu A (97)Flu B (94) | Flu A (94)Flu B (99) | N/A | N/A |
| **Sekisui Diagnostics SilarisTM RSV Test** *(Sekisui Diagnostics Silaris™ RSV Test)* | PCR | 30 | RSV | 90.2% | 95.6% | N/A | N/A |
| **Cepheid Xpert® Flu/RSV XC** (Basile et al., 2018; Loeffelholz et al., 2019) | rRT-PCR | 40-63 | Influenza A, BRSV (A, B) | N/A | N/A | Flu A (85.7-100)Flu B (92-100)RSV (98.5 -100) | Flu A (98.9-100)Flu B (100)RSV (99.6 -100) |
| **BioMérieux BioFire® FilmArray® Respiratory Panel 2 *plus*** *(Biomerieux BIOFIRE® FILMARRAY® RP Panel)* | Endpoint melt curve analysis | 45 | AdVHCoV (229E, HKU1, OC43, NL63)MERS-CoVInfluenza A (including H1N1pdm09,H1N1, H3N2), Influenza BHMPVPIV 1-4RSVRV/EV | Flu A (88.9-100)Flu B (100)RSV (100)AdV (88.9-100)RV/EV (92.7-95.7)PIV 1 (97.1-100)PIV2 (87.4-100)PIV 3 (95.8-100)PIV 4 (100)HCoV-HKU1 (95.8)HCoV-NL63 (95.8)HCoV-229E (100)HCoV-OC43 (100) | Flu A (99.6-100)Flu B (100)RSV (89.1)AdV (99.8)RV/EV (94.6)PIV 1(99.9)PIV2 (99.8)PIV 3(99.8)PIV 4 (99.9)HCoV-HKU1 (99.8)HCoV-NL63 (100)HCoV-229E (99.8)HCoV-OC43 (99.6) | N/A | N/A |
| **Quidel® Solana® Respiratory Viral Panel Influenza A&B and RSV & HMPV\*** (*Quidel® Solana® Respiratory Viral Panel*) | RT-HDA | 45 | Influenza A, BRSVHMPV | N/A | N/A | Flu A (97.2)Flu B (100)RSV (95.5)HMPV (95.6) | Flu A (96.7)Flu B (98.9)RSV (99.9)HMPV (99.8) |
| **Quidel® Lyra® SARS-CoV-2 Assay** *(Quidel® Lyra® SARS-CoV-2 Assay)*† | rRT-PCR | 75 (expected) | SARS-CoV-2 | N/A | N/A | SARS-CoV-2 (100) | SARS-CoV-2 (100) |
| **Janssen Diagnostics/Biocartis Idylla™ Respiratory (IFV-RSV)**(*Janssen Diagnostics/Biocartis Idylla™ IFV - RSV*) | rRT-PCR | 50 | Influenza A (including H1N1pdm09, H1N1, H3N2, H275Y oseltamivir mutation), Influenza B, RSV(A, B) | N/A | N/A | N/A | N/A |
| **BioMérieux BioFire® FilmArray® Respiratory Panel** (*Biomerieux BIOFIRE® FILMARRAY® RP Panel;* Basile et al., 2018) | Endpoint melt curve analysis | 60 | AdVHBoVCoV (229E, HKU1, OC43, NL63, MERS)Influenza A (including H1N1pdm09,H1N1, H3N2), Influenza BHMPVPIV 1-4RSVRV1-4 (not C)/EV | Flu A (90-100)Flu B (100)RSV (100)AdV (88.9-100)HBoV (66.7-100)RhV/EV (92.7-92.9)PIV 1 (100)PIV2 (87.4-90)PIV 3 (95.8-100)PIV 4 (100) | Flu A (99.1-99.8)Flu B (100)RSV (89.1-100)AdV (99.2-100)HBoV (98.4-99.8)RhV/EV (94.6-96.2)PIV 1(99.2-99.9)PIV2 (99.8-100)PIV 3(99.8-100)PIV 4 (99.9-100) | N/A | N/A |
| **BioMérieux BioFire® FilmArray® Respiratory Panel 2** (Leber et al., 2018) | Endpoint melt curve analysis | 60 | AdVHCoV (229E, HKU1, OC43, NL63)Influenza A (including H1N1pdm09,H1N1, H3N2), Influenza BHMPVPIV 1-4RSVRV/EV | N/A | N/A | Flu A (100)Flu B (100)RSV (99.40)AdV (94.6)RV/EV (97.5)PIV 1 (100)PIV2 (97.9)PIV 3 (95.6)PIV 4 (100)HCoV-229E (91.7)HCoV-HKU1 (100)HCoV-OC43 (80.5)HCoV-NL63 (100)HMPV (97.3) | Flu A (100)Flu B (99.9)RSV (98.3)AdV (96.9)RV/EV (93.5)PIV 1 (99.9)PIV 2 (99.5)PIV 3 (99.4)PIV 4 (99.6)HCoV-229E (99.7)HCoV-HKU1 (99.2)HCoV-OC43 (99.7)HCoV-NL63 (99.4)HMPV (99.5) |
| **DiaSorin Simplexa™ Flu A/B & RSV Direct Kit** (*DiaSorin Simplexa® Flu A/B & RSV Direct Kit*) | RT-PCR | 60 | Influenza A (including H1, H1N1pdm09, H3), Influenza BRSV | Flu A (97)Flu B (100)RSV (97.6) | Flu A (97.9)Flu B (99.9)RSV (92.9) | N/A | N/A |
| **DiaSorin Simplexa™ COVID-19 Direct** (*DiaSorin Simplexa™ COVID-19 Direct*)**#** | rRT-PCR | N/A | SARS-CoV-2 | N/A | N/A | SARS-CoV-2 (100) | SARS-CoV-2 (100) |
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| **Cepheid Xpert® Flu** (*Cepheid Xpert® Flu;* Basile et al., 2018) | rRT-PCR | 75 | Influenza A, B  | Flu A (90-100)Flu B (100)A/H1N1pdm09 (97.1-100) | Flu A (95.2-98.1)Flu B (99.1-99.6)A/H1N1pdm09 (99.6) | N/A | N/A |
| **Enigma Diagnostics Enigma® MiniLab Respiratory Viral Panel (RVP) Test** *(Enigma® MiniLab Respiratory Viral Panel (RVP) Test, 2019)* | RT-PCR | 90 | Influenza A, BRSV A, B | N/A | N/A | Flu A (84.8)Flu B (92)RSV (99.4) | Flu A (100)Flu B (100)RSV (100) |
| **Luminex ARIES® Flu A/B & RSV** (*Luminex ARIES® Flu A/B & RSV Assay Overview*) | rRT-PCR | <120 | Influenza A, BRSV | N/A | N/A | Flu A (95.8)Flu B (93.8)RSV (97.1) | Flu A (98.4)Flu B (99.4)RSV (98.4) |
| **Luminex Verigene® RP Flex Test** (*Luminex Verigene® Respiratory Pathogens Flex Test.*) | RT-PCR | <120 | AdVInfluenza A (including H1, H3), Influenza BHMPVPIV 1-4RSV (A, B)RhV |  |  | Flu A (98.3)A/H1 (97.8)A/H3 (100)Flu B (98)RSV A (100)RSV B (100)AdV (86)PIV 1 (90.0)PIV2 (92.3)PIV 3 (82.4)PIV 4 (79.2)HMPV (100)RhV (81.9) | Flu A (99.4)A/H1 (99.7)A/H3 (99.8)Flu B (99.6)RSV A (99.9)RSV B (98.8)AdV (97.2)PIV 1 (99.9)PIV2 (99.9)PIV 3 (99.9)PIV 4 (99.8)HMPV (99.7)RhV (97.1) |
| **QIAGEN QIAstat-Dx® Respiratory Panel v2** *(QIAGEN, 2019)* | rRT-PCR | 120 | AdVHBoVHCoV (229E, HKU1, OC43, NL63)Influenza A (including H1N1pdm09, A/H1, A/H3), Influenza BHMPV (A, B)PIV 1-4RSV (A, B)RV/EV | Flu A (91.7-100)Flu B (98.2)RSV (97.1)AdV (97.2)HBoV (100)RV/EV (94.9)PIV 1 (100)PIV2 (100)PIV 3 (100)PIV 4 (83.3)HCoV-229E (80)HCoV-HKU1 (100)HCoV-OC43 (100)HCoV-NL63 (91.7)HMPV (100) | Flu A (100)Flu B (100)RSV (100)AdV (99.5)HBoV (99.9)RV/EV (98.4)PIV 1(100)PIV2 (100)PIV 3(100)PIV 4 (99.9)HCoV-229E (100)HCoV-HKU1 (100)HCoV-OC43 (100)HCoV-NL63 (100)HMPV (100) | N/A | N/A |
| **Hologic® Panther Fusion® Flu A/B/RSV** *(Hologic® Panther Fusion® Flu A/B/RSV, 2019)*† | rPCR | 145 | Influenza A (including H1N1pdm09, H3N2), Influenza BRSV | Flu A (98.8)Flu B (100)RSV (99.3) | Flu A (99)Flu B (99.8)RSV (99) | Flu A (98.8)Flu B (100)RSV (99.3) | Flu A (99)Flu B (99.8)RSV (99) |
| **Hologic® Panther Fusion® AdV/HMPV/RV** *(Hologic® Panther Fusion® AdV/hMPV/RV, 2019)*† | rPCR | 145 | AdVHMPV RV | AdV (97.9)HMPV (98.7) | AdV (97.6)HMPV (99) | AdV (97.9)HMPV (98.7) | AdV (97.6)HMPV (99) |
| **Hologic® Panther Fusion® Paraflu** *(Hologic® Panther Fusion® Paraflu, 2019)*† | rPCR | 145 | PIV 1-4 | PIV 1 (97.1)PIV2 (91.7)PIV 3 (96.3)PIV 4 (96.7) | PIV 1 (99.6)PIV2 (99.5)PIV 3 (99)PIV 4 (99.8) | PIV 1 (97.1)PIV2 (91.7)PIV 3 (96.3)PIV 4 (96.7) | PIV 1 (99.6)PIV2 (99.5)PIV 3 (99)PIV 4 (99.8) |
| **Hologic® Panther Fusion® SARS-CoV-2** (*Hologic® Panther Fusion® SARS-CoV-2 Assay, 2020*)**#,**† | rRT-PCR | 145 (expected) | SARS-CoV-2 | N/A | N/A | SARS-CoV-2 (100) | SARS-CoV-2 (100) |
| **LG Life Sciences AdvanSure™** *(Jung et al., 2015)*† | rPCT | 180 | AdVHBoVHCoV (229E, OC43, NL63)Influenza A, Influenza BHMPVPIV 1-3RSV (A,B)RV | AdV (100)FluA (100),Flu B (100)RSV B (100)RV (73.8) | AdV (100)FluA (100),Flu B (100)RSV B (95.1)RV (88.9) | AdV (100)HCoV-229E/NL63 (60)FluA (100), Flu B (100)HMPV (100)PIV 1(100)PIV 2 (50)PIV 3 (100)RSV A(100)RSV B (100)RV (60.3) | AdV (91.1)HCoV-229E/NL63 (91.8)FluA (98.9), Flu B (99.8)HMPV (100)PIV 1(99.8)PIV 2 (100)PIV 3 (99.8)RSV A(99.6)RSV B (98.5)RV (95.9) |
| **Luminex® NxTAG® Respiratory Pathogen Panel** *(Chan et al., 2017; Luminex NxTAG® Respiratory Pathogen Panel, 2019)* | RT-PCR | 240 | AdVHBoVHCoV (229E, HKU1, OC43, NL63)Influenza A (including H1, H3), Influenza BHMPVPIV 1-4RSV (A,B)RV/EV | Flu A (100)Flu B (100)RSV A (100)RSV B (100)AdV (100)HBoV (100)RV/EV (92.9)PIV 1 (100)PIV2 (90)PIV 3 (100)PIV 4 (72.7)HCoV-229E (100)HCoV-HKU1 (100)HCoV-OC43 (100)HCoV-NL63 (100)HMPV (90.2) | Flu A (99.1)Flu B (100)RSV A (99.2)RSV B (100)AdV (99.2)HBoV (98.4)RV/EV (96.2)PIV 1 (99.2)PIV2 (100)PIV 3 (100)PIV 4 (100)HCoV-229E (100)HCoV-HKU1 (100)HCoV-OC43 (100)HCoV-NL63 (100)HMPV (100) | N/A | N/A |
| **GenMark Dx® eSensor® Respiratory Viral Panel** *(Pierce and Hodinka, 2012; GenMark Dx Respiratory Viral Panel, 2019)* | eSensor® Technology | 360 | AdV (B/E,C)Influenza A (including H1N1pdm09, H1N1, H3N2), Influenza BHMPVPIV 1-3RSV (A, B)RV/EV | AdV (100)Flu A (100)Flu B (100)HMPV (100)RSV A (100)RSV B (100)PIV 1 (100)PIV 2 (100)PIV 3 (100)RV/EV (97.5) | N/A | AdV (90.3)Flu A (97.2)Flu B (91.7)HMPV (92)RSV A (100)RSV B (95.8)PIV 1 (95.8)PIV 2 (100)PIV 3 (91.7)RV/EV (97.1) | AdV (100)Flu A (100)Flu B (100)HMPV (100))RSV A (100)RSV B (100)PIV 1 (100)PIV 2 (100)PIV 3 (100)RV/EV (95.8) |
| **Abbott Molecular PLEX-ID Flu Assay** *(Tang et al., 2013)*† | RT-PCR/EMI-MS | N/A | Influenza A (including H1, H1N1pdm09, H3), Influenza B | N/A | N/A | Flu A (94.5)Flu B (96)H1N1pdm09 (98.3) | Flu A (99)Flu B (99.9)H1N1pdm09 (97.5) |
| **GenMark Dx® ePlex® Respiratory Panel** (*GenMark Dx Respiratory Pathogen (RP) Panel;* Babady et al., 2018) | PCR | <120 | AdVHCoV (229E, HKU1, OC43, NL63)Influenza A (including H1N1pdm09, H1N1, H3N2), Influenza BHMPVPIV 1-4RSV (A, B)RV/EV | N/A | N/A | Flu A (93.8)A/H1 (-)A/H1pdm09 (95.1)A/H3 (89.8)Flu B (89.6)RSV A (89.6)RSV B (94.1)AdV (93.2)HCoV (85.1)PIV 1 (91.8)PIV2 (91.8)PIV 3 (91)PIV 4 (92.9)HMPV (93.3)RV/EV (94.6) | Flu A (99.9)A/H1 (100)A/H1pdm09 (99.8)A/H3 (100)Flu B (99.8)RSV A(100)RSV B (99.9)AdV (98.9)HCoV (99.5)PIV 1 (99.9)PIV2 (99.9)PIV 3 (99.8)PIV 4 (99.8)HMPV (99.8)RV/EV (95.7) |
| **GenMark Dx® ePlex® SARS-CoV-2 Test (***GenMark Dx ePlex®SARS-CoV-2 Test***)#** | rRT-PCR (eSensor® technology) | <120 | SARS-CoV-2 | N/A | N/A | SARS-CoV-2 (94.4) | SARS-CoV-2 (100) |
| **Nanosphere Verigene® RV+ Test** (*Nanosphere Verigene® Respiratory Virus Plus Nucleic Acid Test on the Verigene® System*) | RT-PCR | N/A | Influenza A (including H1, H1N1pdm09, H3), Influenza BRSV (A, B) | Flu A (98.7)A/H1 (100)A/H1pdm09 (99.5)A/H3 (100)Flu B (100)RSV (97.2) | Flu A (93.2)A/H1 (99.9)A/H1pdm09 (100)A/H3 (100)Flu B (99.7)RSV (99.5) | N/A | N/A |
| **NON NUCLEIC ACID-BASED POCTs** |
| **BD Veritor™ System Influenza A+B and RSV\*** (*BD Veritor™ Flu A+B;* Basile et al., 2018) | LFIC / Digital Immunoassay  | 10-11 | Influenza A, H1N1pdm09, H3N2, H5N1, H5N2, H7N9), Influenza BRSV | Flu A (89.6-90.2)Flu B (87.5-98.8)RSV (61.3 -91.6) | Flu A (99.07)Flu B (100)RSV (94.5-100) | N/A | N/A |
| **Abbott SD BIOLINE Influenza Ag A/B/A(H1N1) pandemic**(*Abbot SD BIOLINE Influenza Ag A/ B/ A(H1N1) Pandemic;* Basile et al., 2018) | CI | 10-15 | Influenza A (including H1N1pdm09), Influenza B | Flu A & B (54.5-91.8) | Flu A & B (96.8-100) | N/A | N/A |
| **Princeton BioMeditech BioSign® Rapid Flu A+B Antigen Panel Test** (*Princeton BioMeditech BioSign® Flu A+B*) | ICMI | 10-15 | Influenza A, B | Flu A (89.2)Flu B (86.4) | Flu A (99.4)Flu B (99) | N/A | N/A |
| **Quidel QuickVue® Influenza A+B and RSV\*** (*Quidel® QuickVue® Influenza A+B Test;* Basile et al., 2018) | LFIC | 10-15 | Influenza A (including H1N1pdm09, H3N2), Influenza BRSV | Flu A (20-98)Flu B (21-87)RSV (58-92) | Flu A (89-100)Flu B (90-100)RSV(90-100) | N/A | N/A |
| **Abbott Alere BinaxNOW® Influenza A+B and RSV\*** (*Abbot Alere BinaxNOW®;* Basile et al., 2018) | LFIC | 15 | Influenza A (including A/H3 and A/H1), Influenza BRSV | Flu A (44.4-83)Flu B (25-70.8)RSV (41-93) | Flu A (93-100)Flu B (96-100)RSV (82-100) | N/A | N/A |
| **BD Directigen™ EZ RSV and Flu A + B\*** (*BD Directigen™ EZ Flu A+B; BD Directigen™ EZ RSV;* Basile et al., 2018) | LFIC | 15 | Influenza A, BRSV | Flu A,B (20.6-62.2)RSV (66.7-87.2) | Flu A,B (97.1-100)RSV (85.5-95) | N/A | N/A |
| **Fujirebio ESPLINE® Influenza A&B-N** (Basile et al., 2018) | EIA | 15 | Influenza A, B | Flu A (86.8-91.2)Flu B (88.2-94.4) | Flu A (95.8-97.1)Flu B (98-99.7) | N/A | N/A |
| **Quidel® Sofia® influenza A+B fluorescent immunoassay** *(Quidel® Sofia® Influenza A+B FIA; Rath et al., 2012; Tuttle et al., 2015)* | FIA | 15 | Influenza A (including H1N1pdm09, H3N2), Influenza B | Flu A (90-99)Flu B (88-90) | Flu A (95-96)Flu B (96-97) | N/A | N/A |
| **Thermo Scientific™ Xpect™ Influenza A+B and RSV\*** (*Thermo Scientific™ Xpect™ Flu A&B and RSV*)] | LFIC | 15 | Influenza A, BRSV | Flu A (92.2)Flu B (97.8)RSV (95.6) | Flu A (100)Flu B (100)RSV (94.1) | N/A | N/A |
| **ArcDia mariPOC® Quick Flu/RSV** (*ArcDia mariPOC® Quick Flu/RSV*) | PE | 20 | Influenza A, BRSV | N/A | N/A | N/A | N/A |
| **ArcDia mariPOC® Respi** (*ArcDia mariPOC® respi;* Basile et al., 2018) | PE | 20-120 | Influenza A (including H1N1v, H1N1, H3N2, H5N1, H7N9, H2N2, H9N2, H7N3),Influenza BRSV (A, B)HMPV (A, B)PIV 1,2,3HCoV-OC43AdVHBoV | Flu A (92.3-100)Flu B (88-100)RSV (89-100)HMPV (78)HBoV (76.5)HCoV-OC43AdV (100) | Flu A (99.8-100)Flu B (100)RSV (100)HMPV (100)HBoV (100)H-CoV-OC43AdV (100) | N/A | N/A |
| N/A: Data not available, CI: Chromatographic Immunoassay, FIA: Fluorescent Immunoassay, LFIC: Lateral Flow Immunochromatography Assay, LAMP: Loop mediated isothermal amplification, ICMI: Immunochromatographic Membrane Immunoassay, NEAR: Nicking Enzyme Amplification Reaction, PE: Photofluorescent Excitation, RT-HDA: Reverse Transcriptase-Helicase Dependent Amplification, RT-PCR: Reverse Transcriptase Polymerase Chain Reaction, rRT-PCR: real-time Reverse Transcriptase Polymerase Chain Reaction, qPCR: quantitative Polymerase Chain Reaction, rPCR: real-time PCR, EIA: Enzyme Immunoassay, EMI-MS: Electrospray Ionization Mass Spectrometry, Flu A: Influenza A, Flu B: Influenza B, RSV: Respiratory syncytial virus, HMPV: Human metapneumovirus, PIV: Parainfluenza virus, AdV: Adenovirus, HCoV: Human coronavirus, RV/EV: Rhino/Enteroviruses, HBoV: Human bocavirus, PPA: Positive Percent Agreement, NPA: Negative Percent Agreement, H1N1pdm09: Influenza A H1N1 pandemic 2009.**\* Two different kits for Influenza A, B and RSV. # For use under the Emergency Use Authorization (EUA) only,** † Rapid PCR kit or test for high-throughput platform.***Note****: None of these commercial POCTs detect the following emerging viruses: SARS-CoV, , KIPyV and WUPyV.* |

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