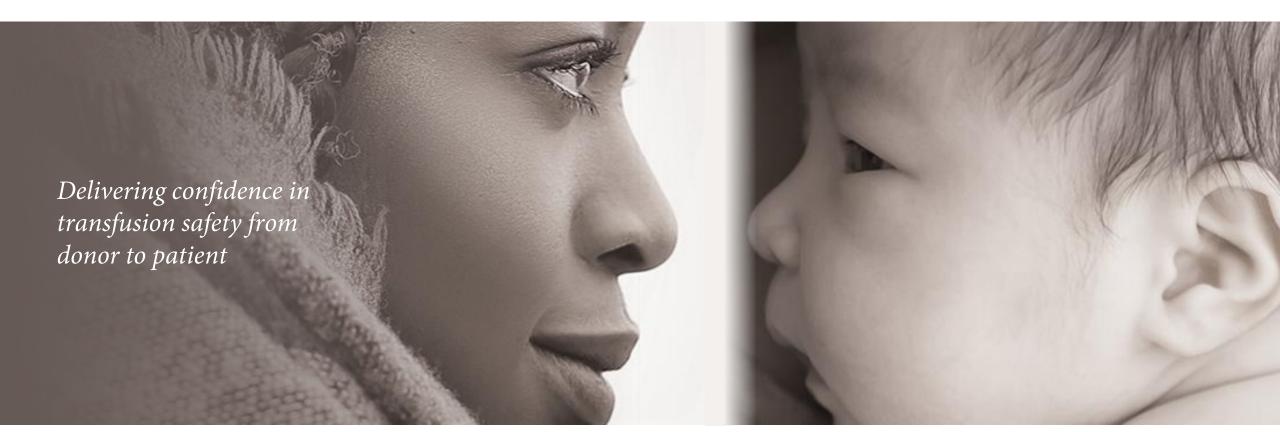
Roche Blood Safety Solutions

Roche

Sustaining the link from donor to patient

Susan Galel, MD, Senior Director, Medical Affairs







An agile solution that can grow as your lab grows

Ready to use reagents

No thawing, mixing, or pouring = no prep

On-board refrigeration

Long term on-board reagent stability and storage

Flexible testing

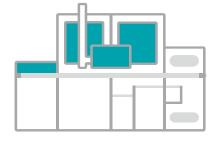
Simultaneous testing from 1 donation or pool

Validated full automation

Track connectable with pre & post-analytics, NAT, & Serology

cobas omni Utility Channel

Develop LDTs to monitor for emerging infectious diseases

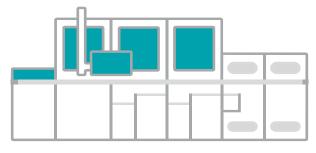


cobas® 6800 System

Up to 384 tests/shift*

First 96 results in 3 hours

+96 results every 90 minutes



cobas® 8800 System

Up to 1,056 tests/shift*

First 96 results in 3 hours

+96 results every 30 minutes





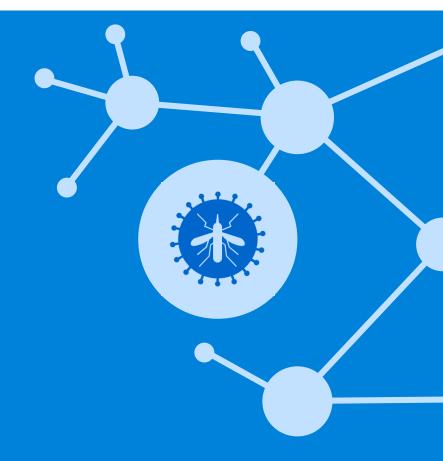
Coming soon! cobas® 5800 System

The **cobas**® 5800 System is in development and not commercially available





Responding to emerging infections

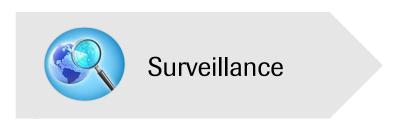




Infectious Disease Emergency Response



Pathway for pathogen alert and assessments





Monitoring Team

- Medical (diagnostics and donor screening)
 - Research
 - Business

Epidemic risk

Unmet needs

Research readiness

Regular reassessments



Testing needs assessment

Roche

Examples of considerations

Assay type

- Molecular
- Antigen
- Antibody

Body fluid

- Respiratory
- Blood
- Other (eg, GI, urine)

Intended population

- Diagnostic
- Donor screening

Platform

- LDT
- Point of care
- High throughput



Testing needs assessment



Example: SARS-CoV-2, initial assessment

Assay type

- Molecular
- Antigen
- Antibody

Body fluid

- Respiratory
- Blood
- Other (eg, GI, urine)

Intended population

- Diagnostic
- Donor screening

Platform

- LDT
- Point of care
- High throughput

SARS-CoV-2

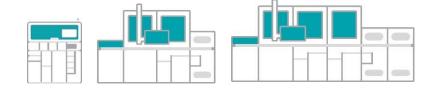
Initial assessment of most urgent need:

- Molecular
- Respiratory
- Diagnostic
 - High throughput



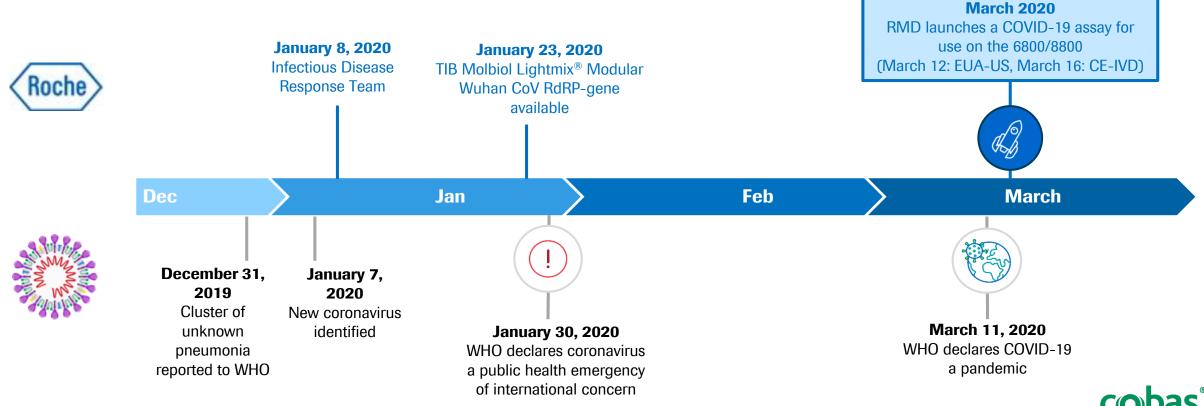
cobas[®] 5800/6800/8800 Systems

Rapid test development





- Standardized chemistry and conditions enable streamlined test development
- Agile Assay Design software predicts behavior of oligonucleotides in the standardized conditions



SARS-CoV-2 continued assessment





Blood Safety

- Prepared for potential need for donor screening NAT
- Verified performance of assay in plasma to enable commercial launch if needed



Patient Dx & Monitoring

 Developed multiple additional tools for diagnosis and monitoring, including antibody tests to qualify convalescent plasma



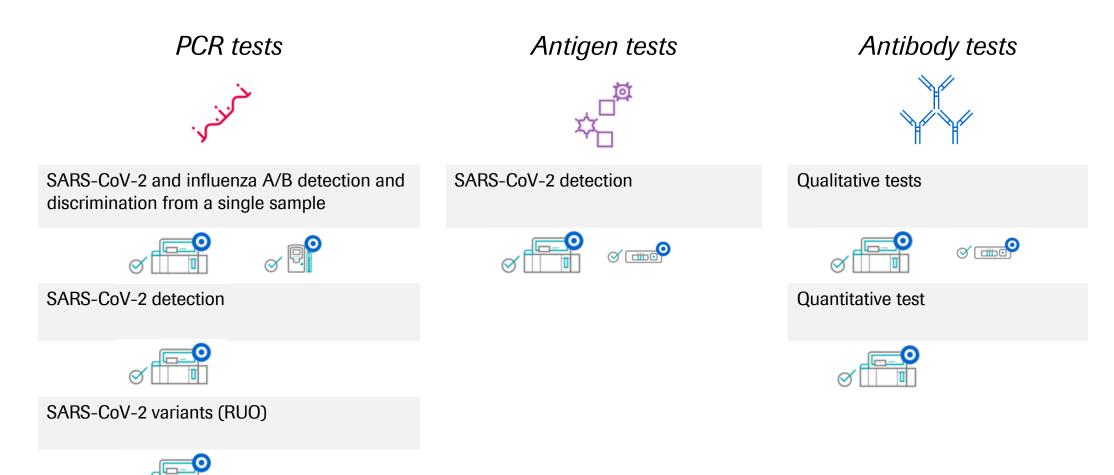
Roche SARS-CoV-2 solutions

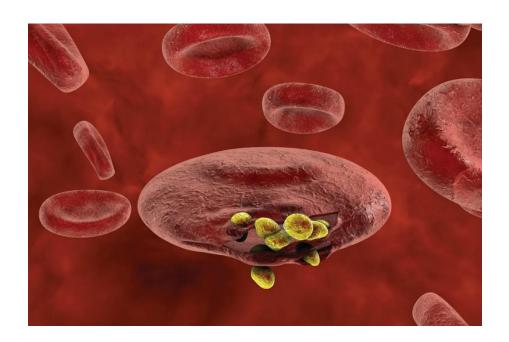


Solutions for point of care and laboratory testing

Note: assays are not available in all countries. Assays

available in the US under Emergency Use Authorization







NAT for Prevention of Transfusion-Transmitted Malaria

- Donor screening methods used in endemic areas (microscopy and antigen) are not sensitive enough to prevent TTM
- In non-endemic areas, donor questioning excludes a large number of non-infected donors and fails to exclude some infected donors
 - Antibody tests show variability in detection
- Highly sensitive NAT may be of benefit





Sustaining the link from donor to patient



Active monitoring for emerging pathogens with large portfolio of tools for responding to diagnostic and donor screening needs

Standardized conditions for x800 family enable rapid and robust NAT design

Novel solutions facilitate response to emerging and existing challenges







Doing now what patients need next

