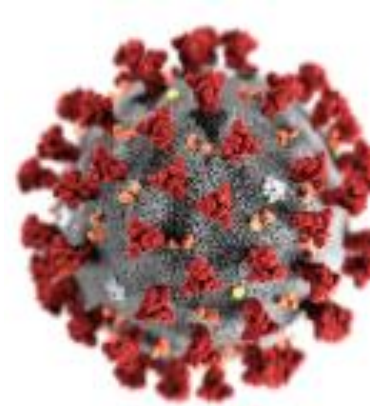


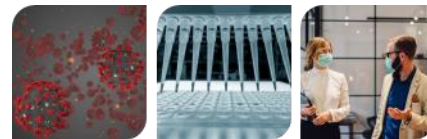


Improving Workplace Safety with Coronavirus Environmental Testing

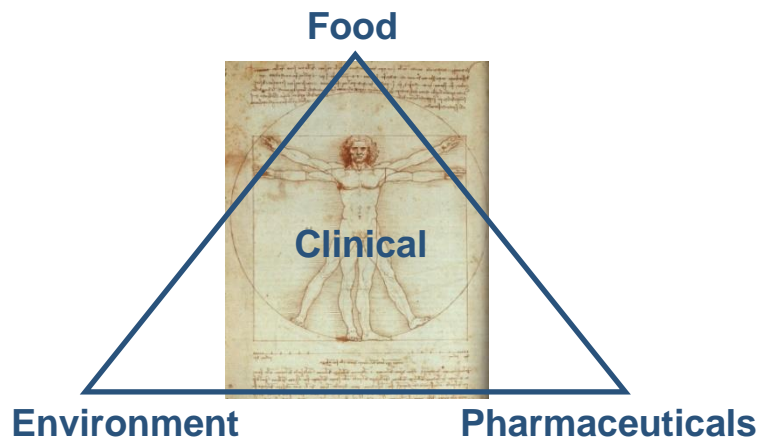
Douglas L. Marshall, Ph.D.
Eurofins Microbiology Laboratories
douglasmarshall@eurofinsus.com



Health & Safety is our Mission



Eurofins provides testing services in four main areas that have a strong impact on human health

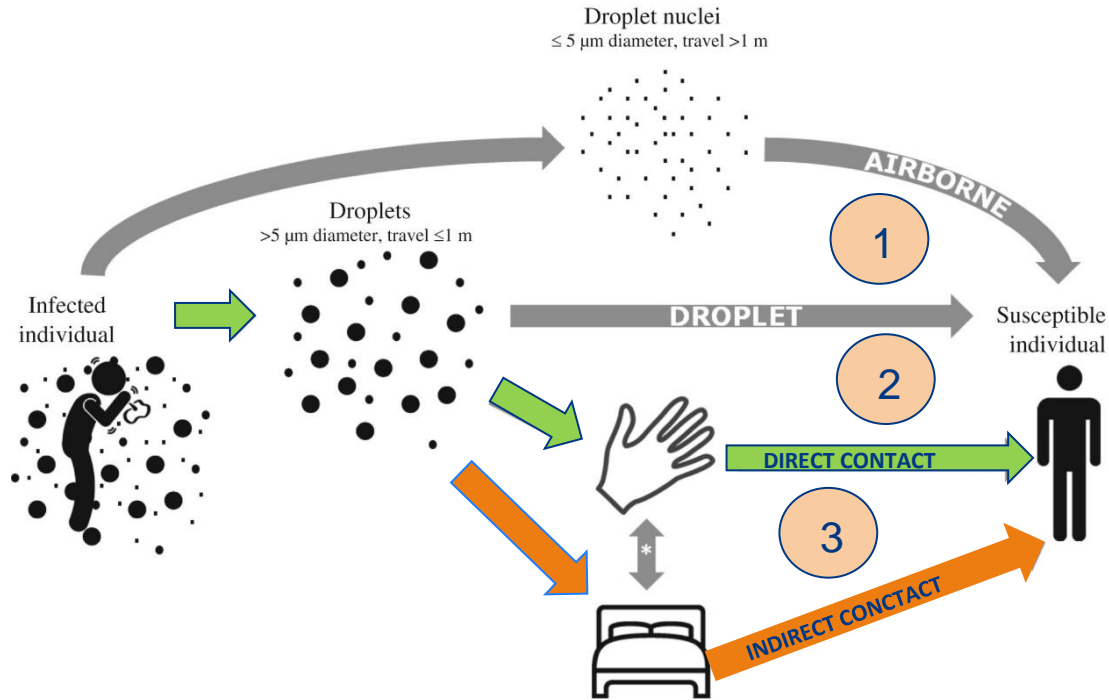
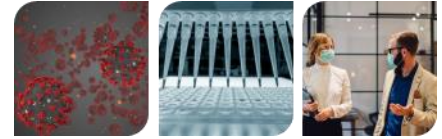


- Founded in 1987
- International network of >900 independent companies in >50 countries with >800 laboratories and >47,000 staff
- Portfolio >200,000 analytical methods with >400 million test performed annually

Our Mission

To contribute to a safer and healthier world by providing our customers with innovative and high quality laboratory, research and advisory services whilst creating opportunities for our employees and generating sustainable shareholder value

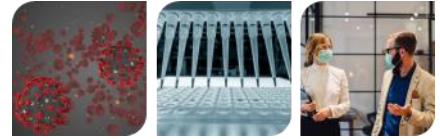
SARS-CoV-2 Transmission



* Transmission routes involving a combination of hand & surface = indirect contact.

Source:
Otter et al., 2016, J. Hospital Infect.

Fomite Spread



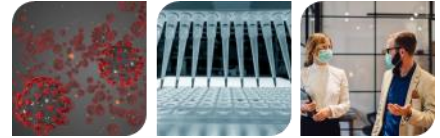
Fomite - any inanimate object that when contaminated with or exposed to infectious agents, can transfer disease to a new host

Fomite Spread:

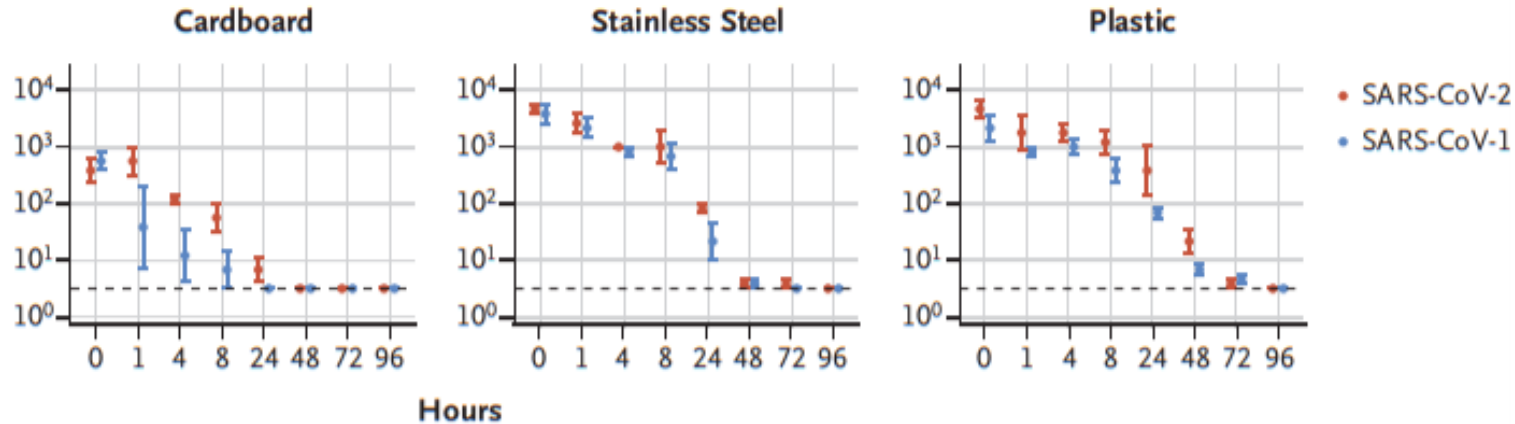
- Virus particles deposited on any inanimate object that can serve as a route of disease transmission
- Controlled by proper personal hygienic practices
- Controlled by proper disinfection



SARS Virus Surface Stability



In laboratory experiments:



Source: Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1. N Engl J Med. 2020 Apr 16.

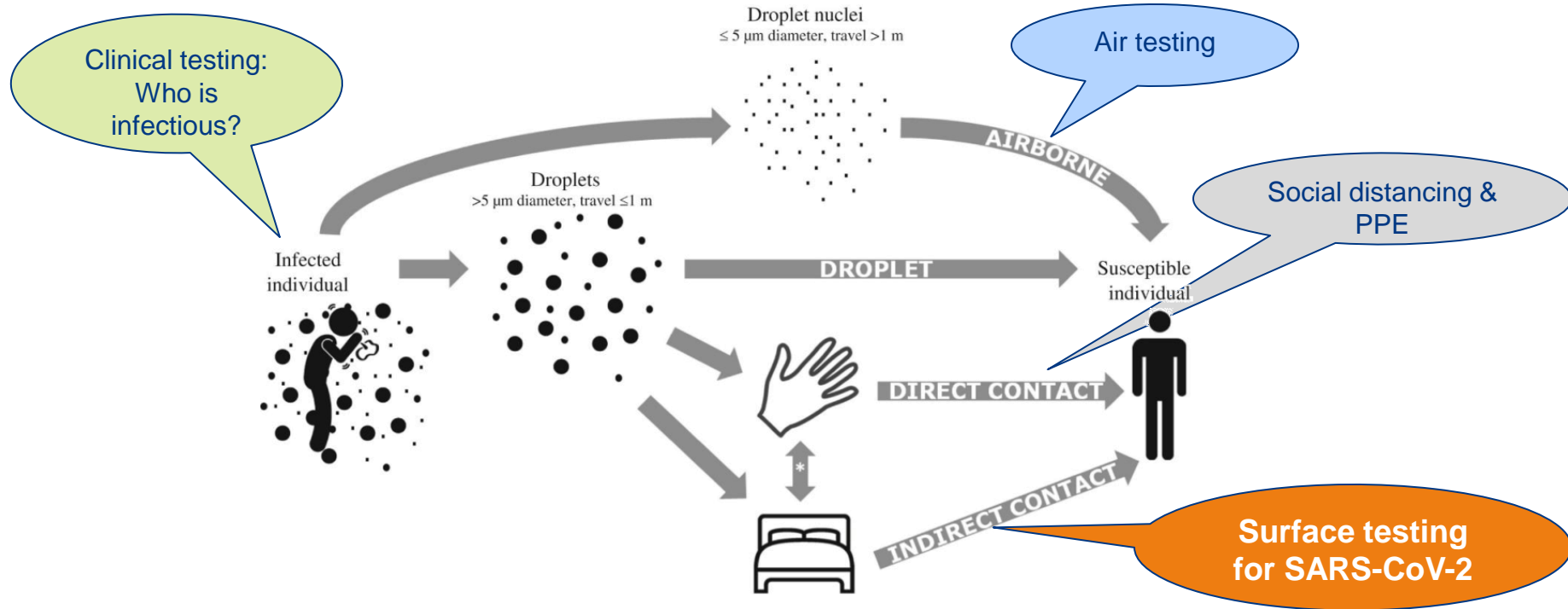
COVID-19 Workplace Controls



Too many examples of employer failures in protecting employees, why?

- **Fit for work screens miss presymptomatic and asymptomatic individuals – exposure leads to 56% of COVID-19 infections**
- **Temperature checks are ineffective**
- **Many companies provide no sick leave for employees**
- **Many companies have a work while sick policy – even providing work bonus incentives**
- **Social distancing too difficult**
- **Contact tracing is either not done or done poorly**

Workplace COVID-19 Control



* Transmission routes involving a combination of hand & surface = indirect contact.

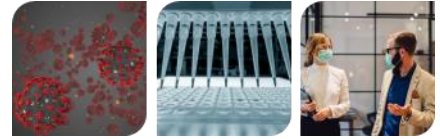
Coronavirus Surface Testing



Why test environmental surfaces?

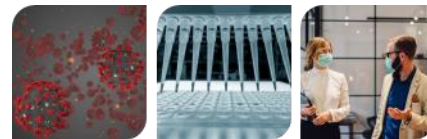
- Reduce liability, create confidence in safety in the workplace
- Proactive monitoring
- Post exposure disinfection efficacy verification
- Verify that returned quarantined employees are not shedding virus in the work environment
- Satisfy a customer expectation due to potential for supply chain disruption
- Predict virus shedding by unrecognized employee
- **BUSINESS CONTINUITY!**

Eurofins Testing Solutions



	VIRSeek Coronavirus (CoV) RT-PCR Screen	VIRSeek SARS-CoV-2 RT-PCR Ident
Acceptance criteria for application	No coronavirus accepted including <ul style="list-style-type: none">• SARS-CoV-1• MERS• SARS-CoV-2 (COVID19)• Other SARS-related coronaviruses	Only worried about SARS-CoV-2
Testing strength	<ul style="list-style-type: none">• Broader detection range (does not differentiate SARS-related viruses)• Fewer false negatives	<ul style="list-style-type: none">• More specific• Can be added to confirm CoV-positive result

EMP Protects Employees



Daily Number of Coronavirus Positive Swabs

