Biology

Visualizing speech-generated oral fluid droplets with laser light scattering
• Speaking the phrase "Stay healthy" was sufficient to produce droplets. Production of droplets went to baseline when the participant wore a damp cloth over their mouth.

Epidemiology

Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period
• Modeling insights into the likely outcomes under variations in cross-immunity, seasonal effects, and social distancing. Incidence-threshold-based intermittent social distancing is suggested as the most effective social distancing strategy.

Coast-to-coast spread of SARS-CoV-2 during the early epidemic in the United States
• Sequencing of viral genomes indicates domestic spread of SARS-CoV-2 across the U.S.

Genomic epidemiology of SARS-CoV-2 in Guandong Province, China
• Complete SARS-CoV-2 genomes from Guandong province. Early interventions of the Guandong province government to restrict travel prevented widespread local transmission and that early phylogenetic analyses of SARS-CoV-2 must be interpreted with caution resulting from the low genetic variation in the viral genome.

Diagnosis & Prevention

Universal Screening for SARS-CoV-2 in Women Admitted for Delivery
• Most obstetrical patients who tested positive for SARS-CoV-2 on admission remained asymptomatic throughout their delivery and hospital stay.

Symptom Screening at Illness Onset of Health Care Personnel With SARS-CoV-2 Infection in King County, Washington
• Screening for fever, cough, shortness of breath, sore throat, myalgias and chills may miss up to 10% of healthcare personnel. There is an elevated need for expanded screening criteria, quarantine, testing, and flexible and nonpunitive sick leave policies.

Treatment

Development of CRISPR as an antiviral strategy to combat SARS-CoV-2 and influenza
• CRISPR-Cas13-based strategy can degrade SARS-CoV-2 RNA and reduce live influenza A viral load in human lung epithelial cells.

Legal, Ethics & Management

Virtual Health Care in the Era of Covid-19
• The COVID-19 pandemic has drastically reduced the regulatory limits on telemedicine in many countries, which can protect both patient and provider, but may also negatively impact patient care.
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