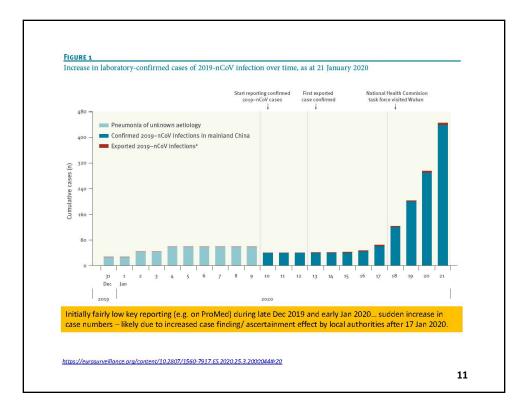
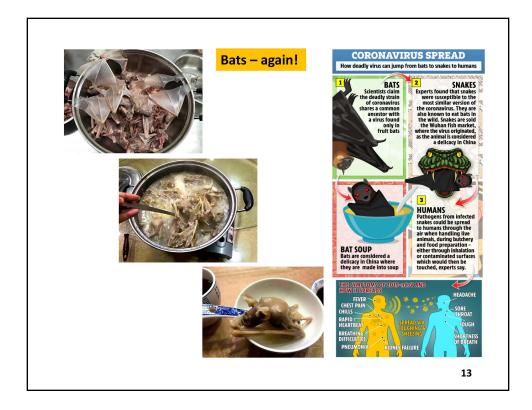


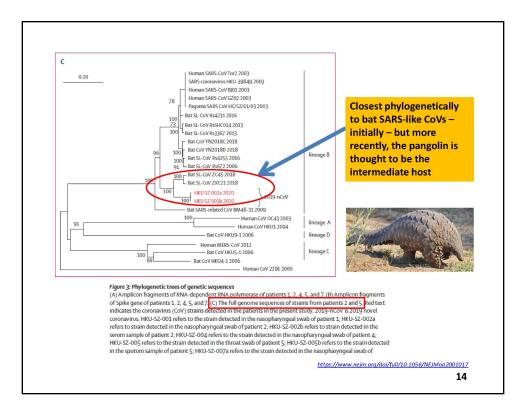
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com

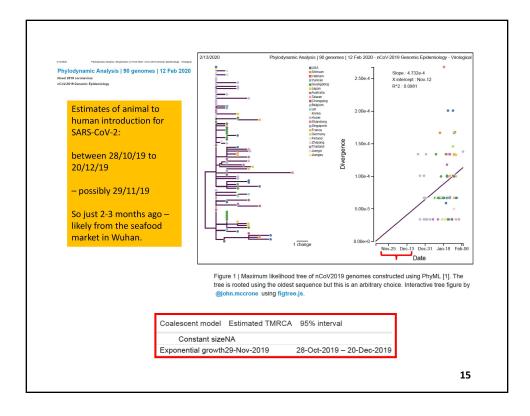


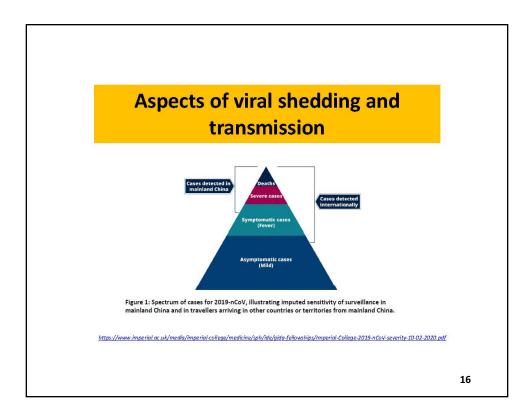


Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com

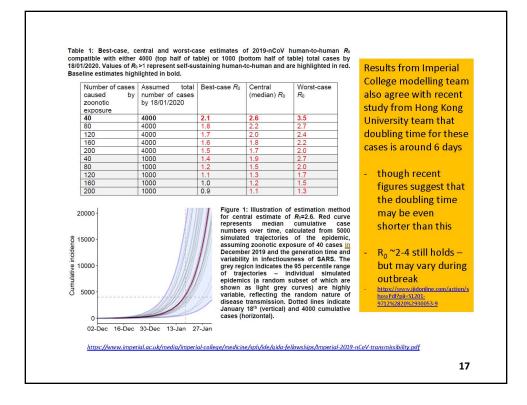


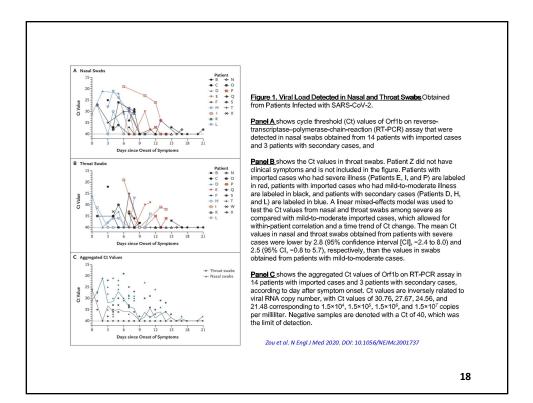


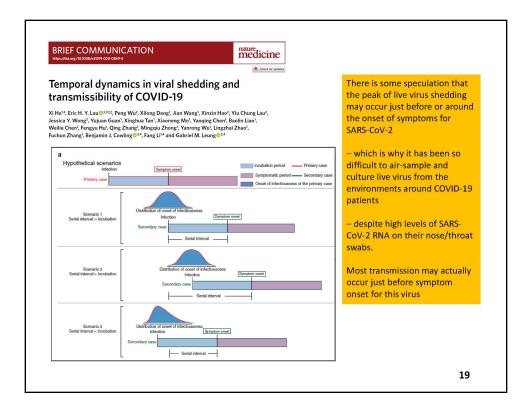


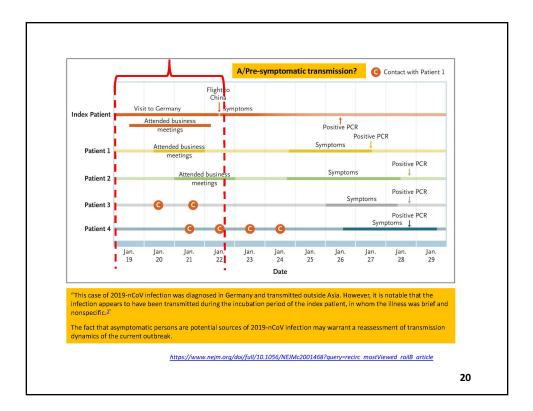


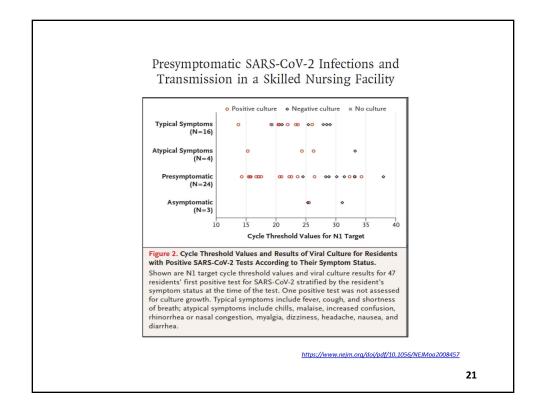
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com

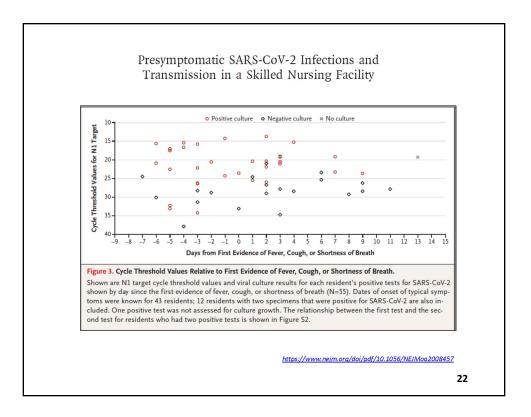


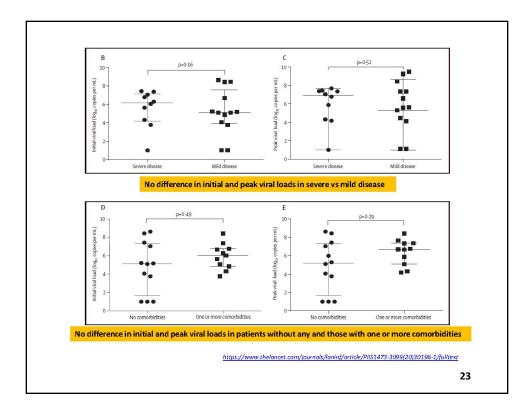


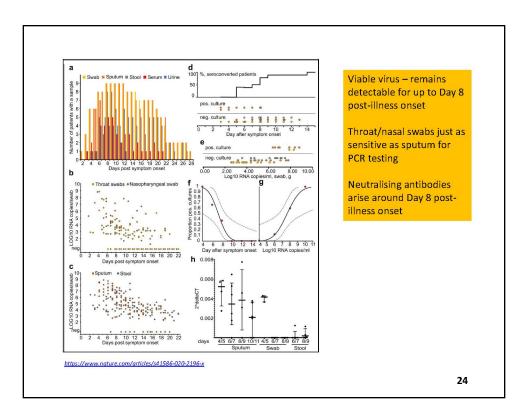


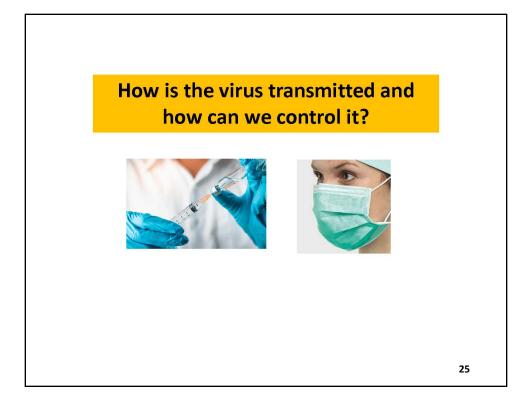


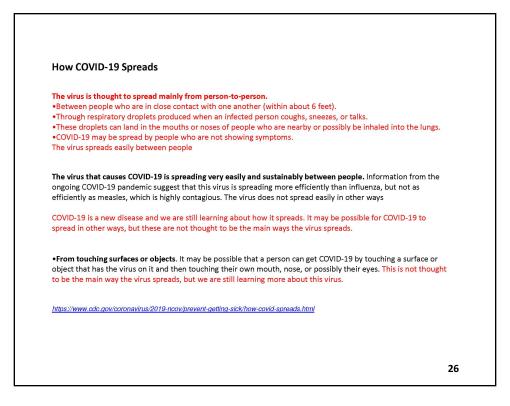


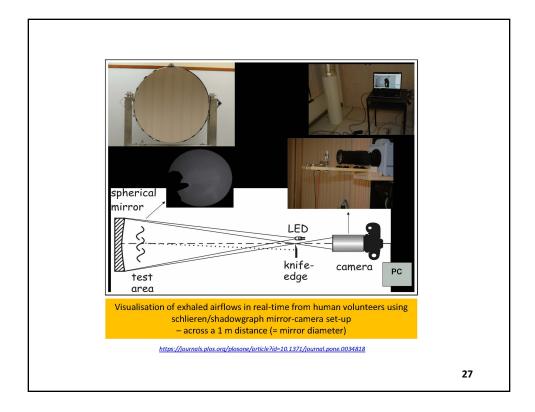






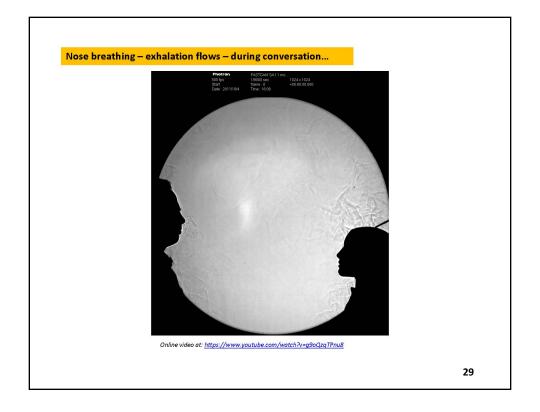


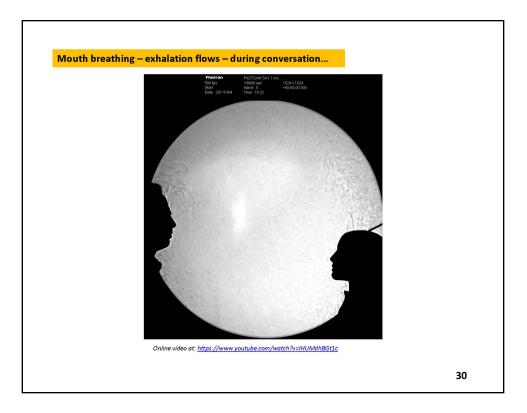




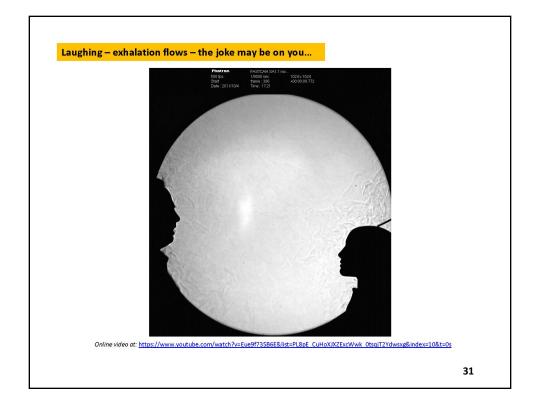


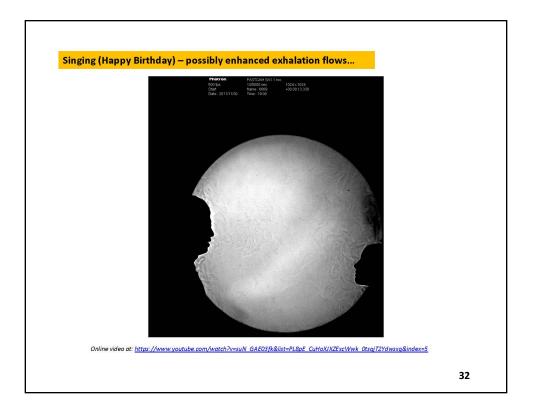
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com



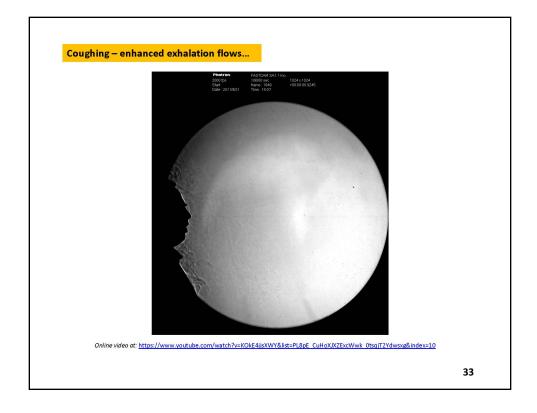


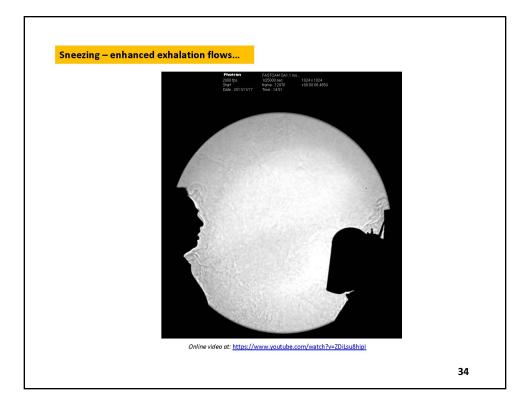
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com



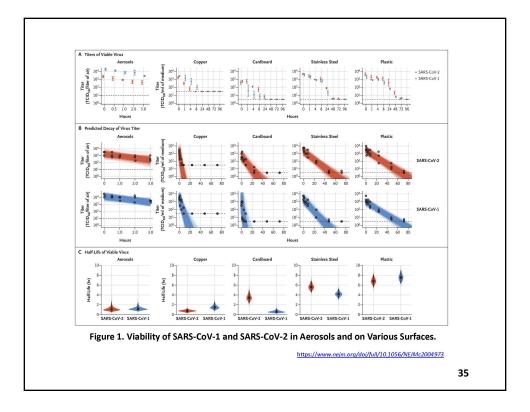


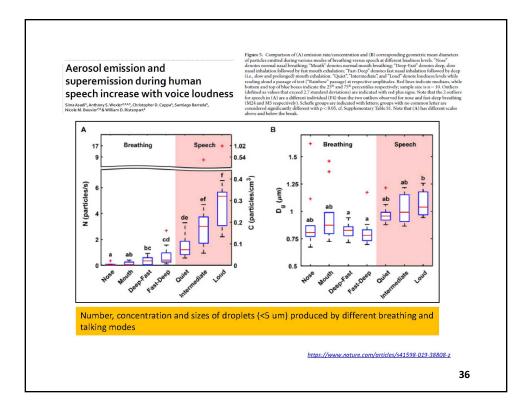
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com

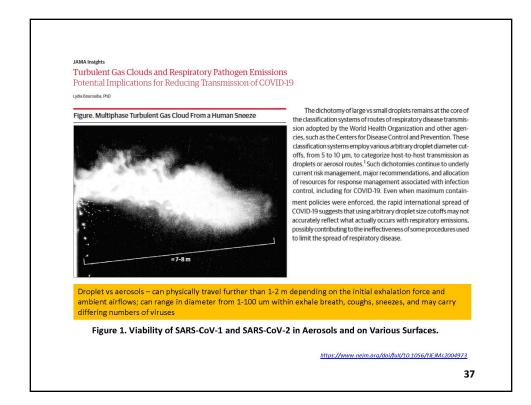


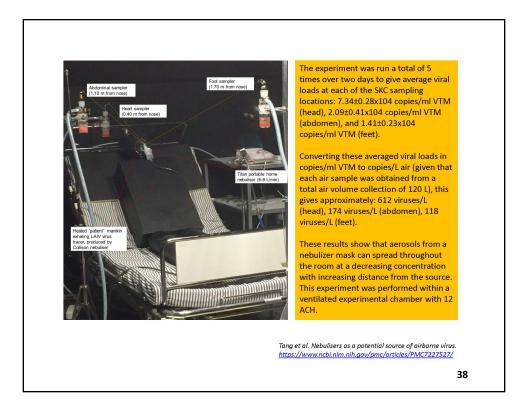


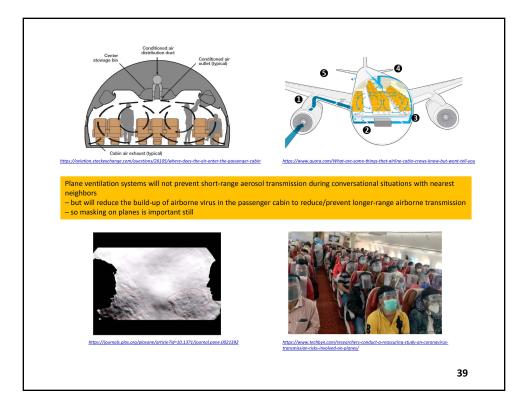
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com

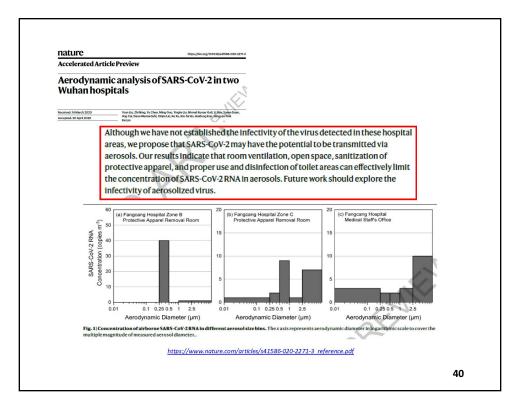


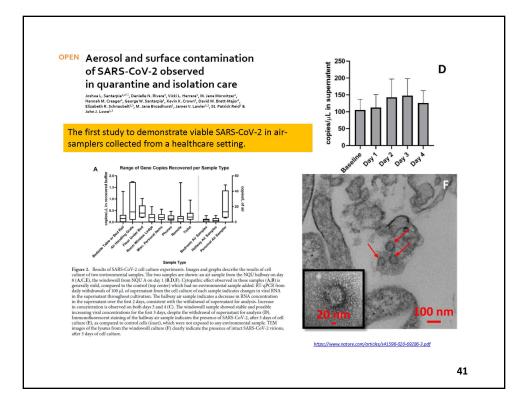




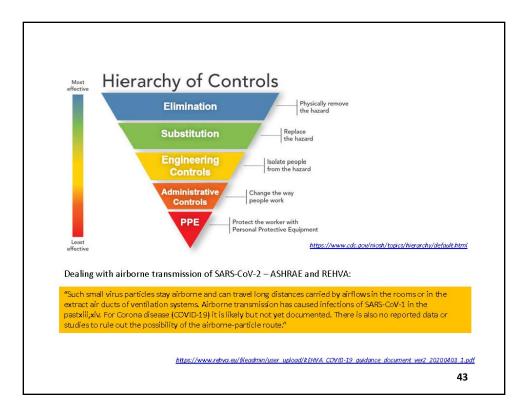




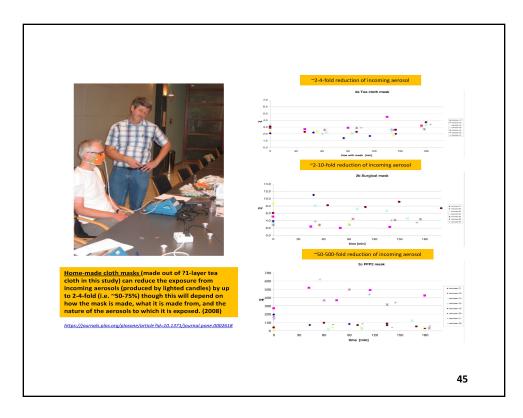


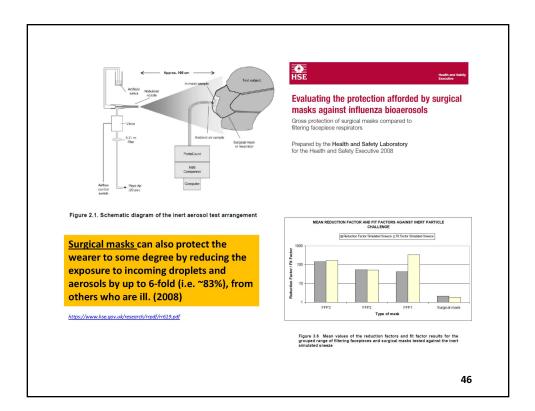


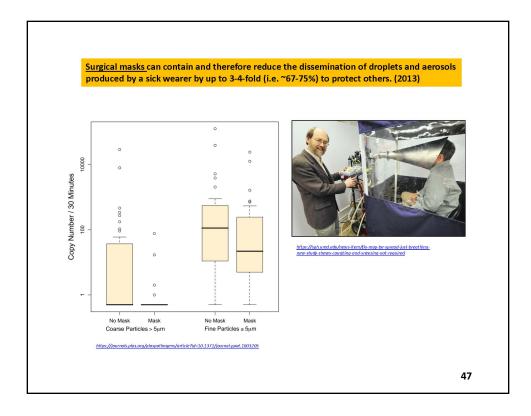








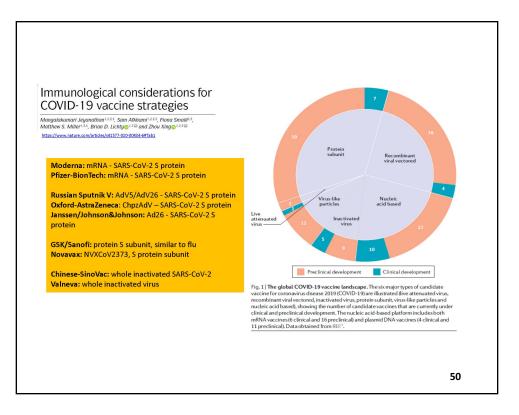




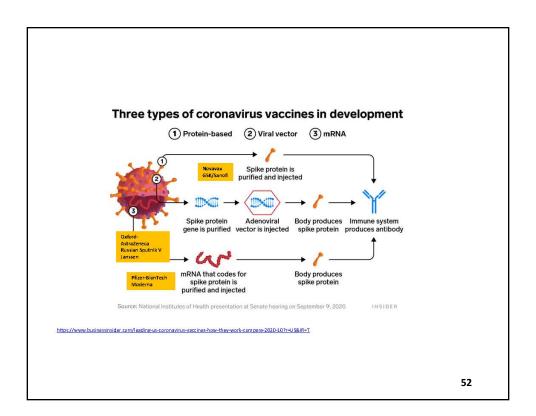


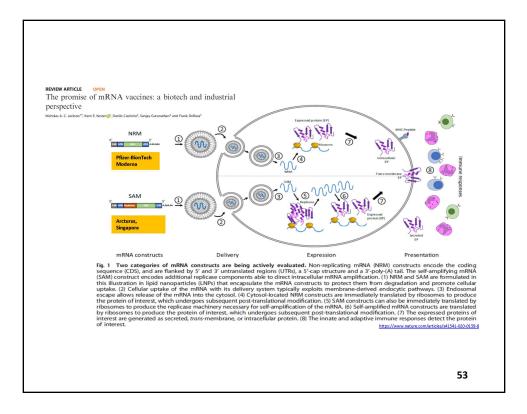
Hosted by Martin Kiernan martin@webbertrainng.com www.webbertraining.com





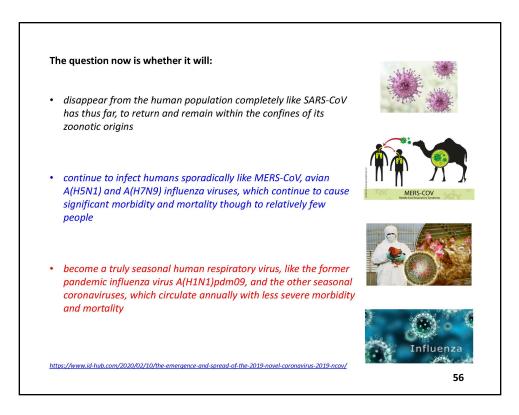






Vaccine S			najor COVID-19 candidate vaccine T cell response			Pre-existing	Route of	Overall	Other
			CD4+ T <sub>H</sub> cells	CD8+ T cells	Lung T <sub>RM</sub> cells	antivector immunity	vaccination	immunogenicity	attributes
Viral-vecto	red vaccines								
Ad5 (non- replicating) Russian Sp	S protein utnik V	Quality and durability affected by pre-existing antivector immunity	T <sub>H</sub> 1 cell	Potent response; negative effects from pre-existing antivector immunity	Induced by RM but not IM route	High, age- dependent, prevalence in blood; low prevalence in respiratory tract	Parenteral (IM) in clinical trials	Strong with single delivery but hindered by pre-existing antivector immunity	Ample human safety data; RM delivery helps bypass antivecto immunity; can be delivered by inhaled aerosol
Ad26 (non- replicating) Russian Sp Janssen		Quality and durability affected by pre-existing antivector immunity	T <sub>H</sub> 1 cell	Moderate response; negative effects from pre-existing antivector immunity	not IM	Medium prevalence	Parenteral (IM) in planned clinical trials	Weak; requires repeated or heterologous boost vaccination	Established human safety from HIV and Ebola vaccine trials; RM deliver helps bypass antivector immunity
ChAd (non- replicating) Oxford- AstraZeneo		Unimpeded owing to lack of pre-existing antivector immunity	T <sub>H</sub> 1 cell	Potent response	Induced by RM but not IM route	Very low prevalence	Parenteral (IM) in clinical trials	Strong with single delivery	Well-established human safety data; amenable to RM delivery; can be used as a stand-alone vaccine or in prime-boost regimens

Vaccine SARS-CoV-2 platform antigens		T cell response			Pre-existing	Route of	Overall	Other	
	antigens	antibody response	CD4+ T <sub>H</sub> cells	CD8+ T cells	Lung T <sub>RM</sub> cells	antivector immunity	vaccination	immunogenicity	attributes
Other vacci	nes				- KOM				
mRNA- based vaccine Pfizer-	S protein or RBD encapsulated in lipid	owing to lack of	T <sub>H</sub> 1 cell or T <sub>H</sub> 2 cell depending on adjuvant	on choice induced of adjuvant by	None	Parenteral (IM) in clinical trials	Requires repeated delivery	Adjuvant required; unclear whether it is amenable to RM	
BionTech Moderna	nanoparticle				route				vaccination
DNA- based vaccine	S protein	Unimpeded owing to lack of pre-existing antivector immunity	T <sub>H</sub> 1 cell	Response not as strong as for some of the viral vectors	Not induced	None	Parenteral (IM) in clinical trials	Weaker than mRNA-based vaccine; requires repeated delivery	Adjuvant required; not amenable to RM vaccination
Live attenuated virus	Multiple viral antigens	Strong induction	T <sub>H</sub> 1 cell	Strong response	Induced by RM but not IM route	No cross- reactive antibodies; cross-reactive T cells from seasonal coronavirus infections	Parenteral (SC)	Requires only a single delivery	Extensive safety testing required for potential recombination with wild-type virus
							htt	ps://www.nature.com	/articles/s41577-020-004



www.webbertraining.com/schedulep1.php					
	YEARS				
TELECLASS EDUCATION ESTABLISHED 2001					
January 14, 2021	( <u>FREE Teleclass)</u> COVID FAKERY Speaker: <b>Prof. Didier Pittet</b> , University of Geneva Hospitals, Switzerland				
January 21, 2021	( <u>FREE Teleclass)</u> COVID IN NURSING HOMES Speaker: Prof. Allison McGeer, University of Toronto				
January 28, 2021	(FREE Teleclass) COVID UPDATE: FOCUS ON VACCINES Speaker: Prof. Robert T. Ball, Medical University of South Carolina				
February 4, 2021	SUPPORTING THE PSYCHOLOGICAL SAFETY AND WELLBEING OF HEALTHCARE WORKERS THROUGH UNCERTAIN TIMES Speaker: Amy Pack, Canadian Patient Safety Institute				

