

Lampiran 6. Materi Presentasi Kegiatan PkM

SARS-CoV-2 & COVID-19: Pencegahan Melalui Protokol Kesehatan

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COVID-19
[Coronavirus Disease 2019]

SARS-CoV-2
[Severe Acute Respiratory Syndrome Coronavirus 2]

SARS-cov-2 structure

Envelope (E) protein

Spike (S) protein

Nucleocapsid (N) protein

Membrane (M) protein

ssRNA

Galanopoulos, M et al. World J Gastroenterol 2020;26:6335-45

SARS-CoV-2
SARS-like 2002-2003
&
SARS-CoV-2
COVID-19

Attachment protein "spike"

The spike protein of SARS-CoV-2 is primed by TMPRSS2

Activation

Attachment

SARS-CoV-2 uses the ACE2 receptor for host cell entry

Host cell

TMPRSS2

Angiotensin converting enzyme (ACE2)

Fever	88%
Fatigue	38%
Chills	11%
Headache	14%
Nasal congestion	5%
Sore throat	14%
Dry cough	68%
Productive cough	33%
Dyspnea	19%
Nausea/emesis	5%
Diarrhea	4-14%
Myalgias	15%

Clerkin, K et al. Circulation 2020;141:1648-55

Pencegahan Pandemi SARS-CoV-2 – Model Keju Swiss

menyadari bahwa tidak ada satu intervensi yang sempurna dalam mencegah penyebaran virus

Tanggung jawab pribadi Tanggung jawab bersama

Masing-masing intervensi ("lapisan") memiliki keterbatasan ("lubang"). Semakin banyak lapisannya, semakin tinggi keberhasilannya.

All of them
integrated with each other
with thanks to each other, before and after the use of it
Based on the Swiss cheese model of accident causation by James T. Reason, 1987
Source: WHOCCOVID-19
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How some of the Covid-19 vaccines compare

Company	Type	Doses	Storage
Oxford (Uni-AstraZeneca)	Viral vector (genetically modified virus)	x2	2 to 8°C (6 months)
Moderna	RNA (split of virus genetic code)	x2	-25 to -15°C (7 months)
Pfizer-BioNTech	RNA	x2	-80 to -40°C (6 months)
Gamalya (Spivak V)	Viral vector	x2	-18,9°C (liquid form) 2 to 8°C (dry form)
Sinovac (CoronaVac)	Inactivated virus (killed virus)	x2	2 to 8°C
Novavax	Protein-based	x2	2 to 8°C
Janssen	Viral vector	x1	2 to 8°C (3 months)

Source: UK government, Reuters

Which vaccine has greatest global reach?

Number of countries and territories using each vaccine

Pfizer/BioNTech	58
Oxford/AstraZeneca	43
Moderna	29
Sputnik V	18
Sinopharm	18
Sinovac	18
Janssen	11
EpiVaxCorona	1
Covaxin (Bharat Biotech)	1

Note: Only includes locations where data on doses administered is available
Source: Our World in Data, 1145 GMT on 8 Mar with latest available data

CORONAVIRUS | Global vaccine rollout

Click or tap the map

Total doses per 100 people

No data 0 10 20 30 40 50+

Source: Our World in Data, 1145 GMT on 8 Mar with latest available data

Location	Doses per 100 people	Total doses
World	3.9	305,285,044
US	27.3	90,351,750
China	3.6	52,573,800
UK	35.2	23,519,898
India	1.5	20,989,010
Brazil	5.1	10,830,688
Turkey	11.8	9,917,348
Israel	101.1	8,749,514

Source: Our World in Data, 1145 GMT on 8 Mar with latest available data

Location	Doses per 100 people	Total doses
China	3.6	52,573,800
India	1.5	20,989,010
Indonesia	1.5	4,022,544
Bangladesh	2.2	3,682,152
Sri Lanka	3.4	724,278
Singapore	9.7	565,000
Nepal	1.4	402,264

Source: Our World in Data, 1145 GMT on 8 Mar with latest available data

Tanggung jawab pribadi Tanggung jawab bersama

Pencegahan Penyebaran SARS-CoV-2 Butuh Kombinasi Protokol Kesehatan & Vaksinasi

Terima Kasih