

Potensi Penyebaran Covid-19 pada Bangunan Komersil

July Kumalawati
FKUI-RSCM-RSPB-PDSPatKLIn

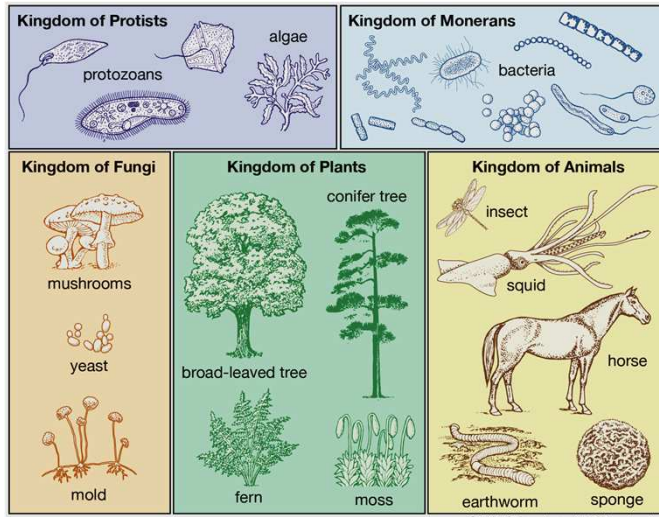
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Pokok bahasan

- ▶ Klasifikasi makhluk hidup
- ▶ Terjadinya infeksi
- ▶ Cara penularan penyakit infeksi
- ▶ Covid 19 dan SARS CoV 2
- ▶ Cara penularan SARS CoV 2
- ▶ Potensi penularan dalam gedung

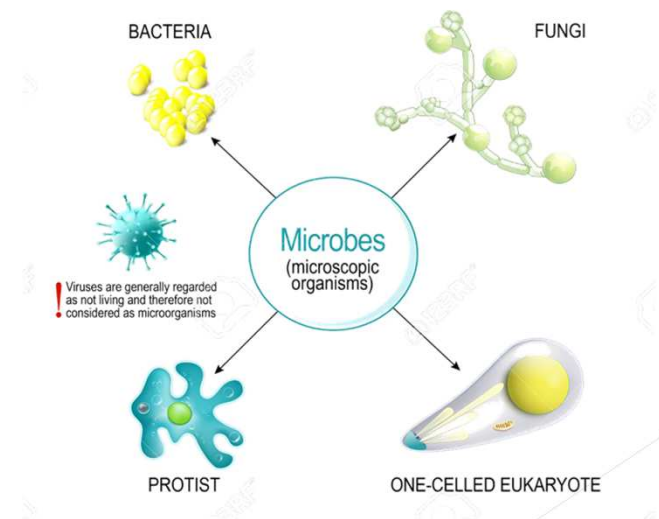
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Klasifikasi Mahluk Hidup



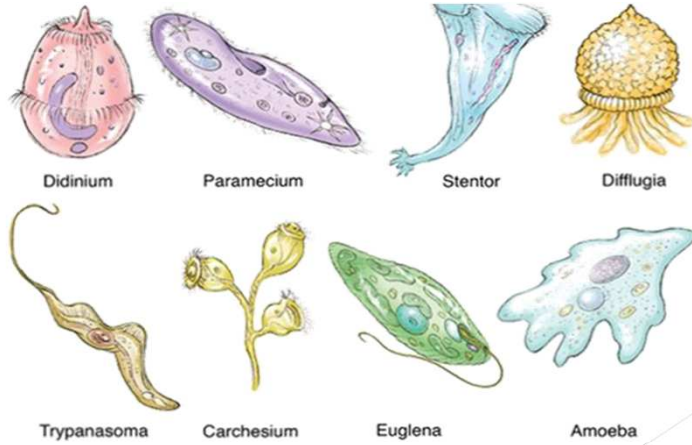
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Klasifikasi Mikroorganisme



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Protozoa



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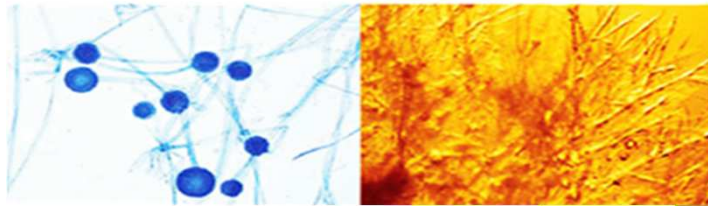
Jamur

Phycomycetes (Lower Fungi)

- Saprolegnia
- Rhizopus
- Mucor
- Albugo
- Pythium

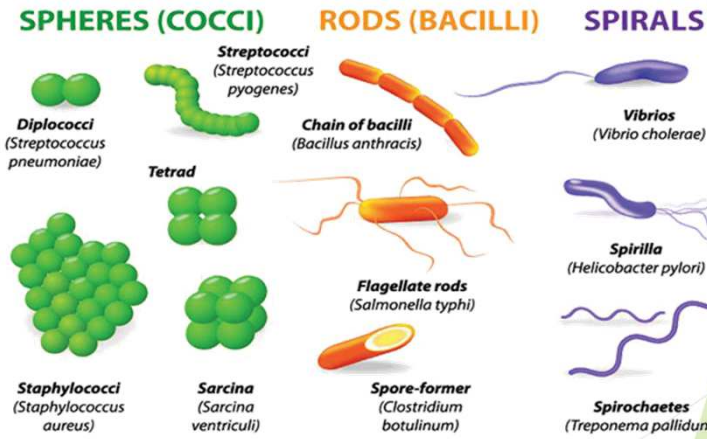
Ascomycetes (Sac Fungi)

- Yeast
- Aspergillus
- Pencillium
- Neurospora
- Peziza



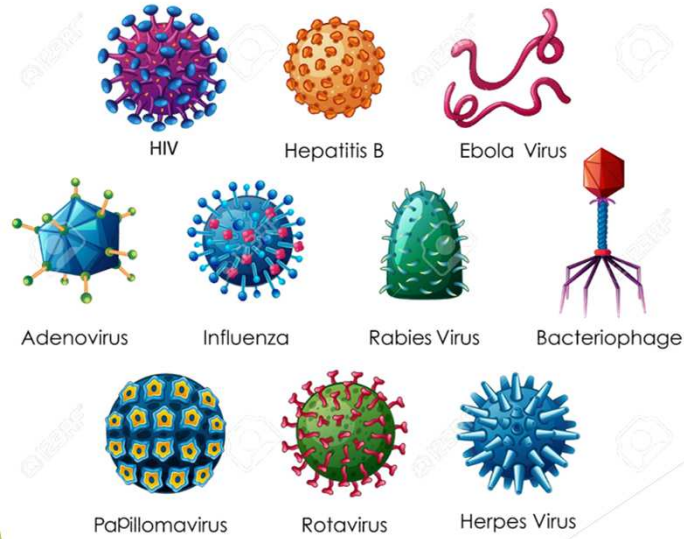
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Bakteria



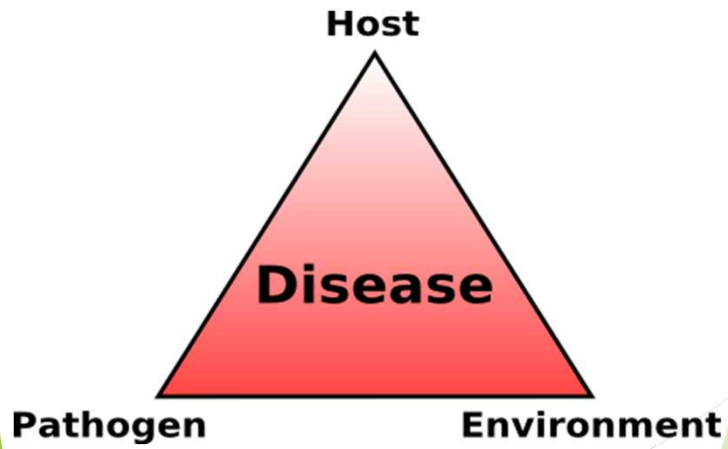
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Virus



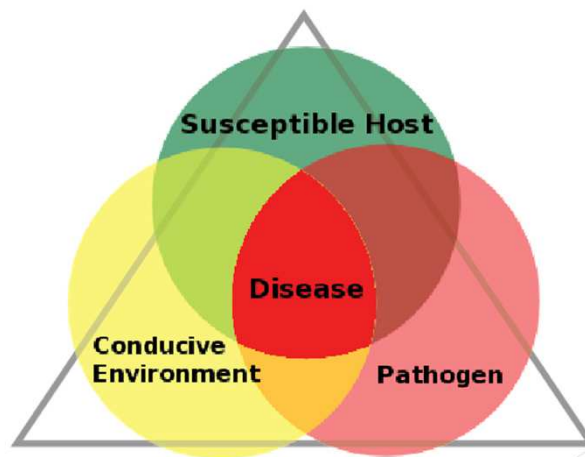
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Terjadinya Infeksi



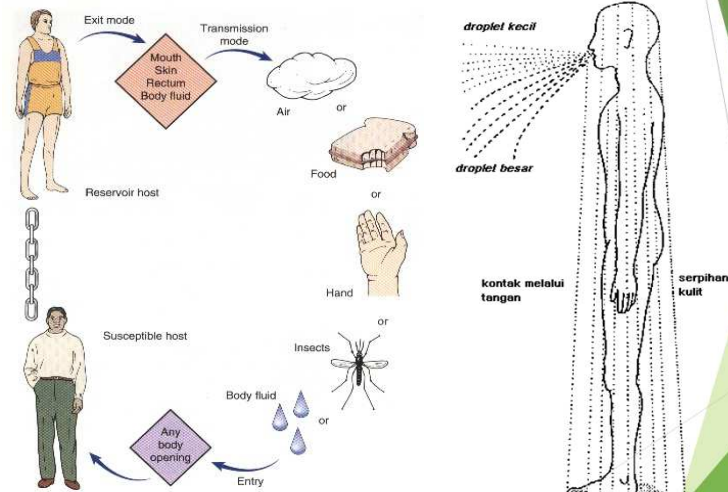
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Terjadinya infeksi



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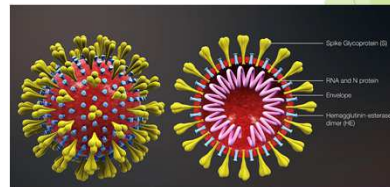
Cara Penularan



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COVID-19

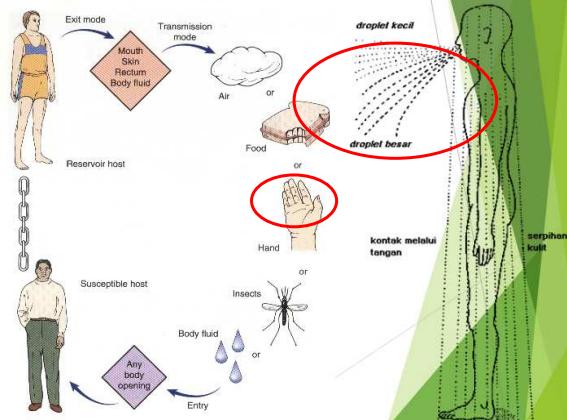
- ▶ = Coronavirus disease 2019
- ▶ **Penyebab:**
 - ▶ **SARS CoV 2 (Severe Acute Respiratory Syndrome Coronavirus 2)**
 - ▶ Berbentuk sferis
 - ▶ Genom: satu ss-RNA
 - ▶ 4 protein struktural utama:
 - ▶ S (*spike*)
 - ▶ M (*membrane*)
 - ▶ E (*envelope*)
 - ▶ N (*nucleocapsid*)



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Penularan SARS CoV 2

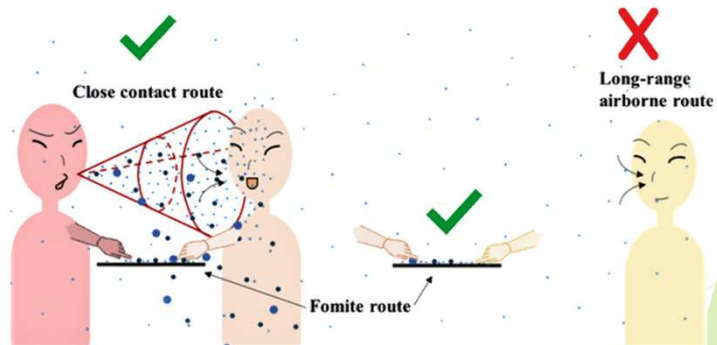
- Melalui droplet dan kontak (sentuhan)



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Penularan SARS CoV 2

- Melalui droplet dan kontak (sentuhan)



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Potensi penularan COVID 19 dalam gedung

▶ Lewat udara (droplet)

- ▶ Droplet saat berbicara, bersin, atau batuk
- ▶ Pergantian udara yang kurang memadai
- ▶ Area basah: toilet, kamar mandi

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Potensi penularan COVID 19 dalam gedung

▶ Lewat kontak (sentuhan)

- ▶ Orang lain
 - ▶ Berjabat-tangan, sentuhan ke area wajah
- ▶ Barang yang banyak disentuh
 - ▶ Furnitur
 - ▶ Pintu
 - ▶ Tombol lift, ATM, telepon, railing tangga/escalator, dsb
 - ▶ Lantai?

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Penutup

- ▶ Perlu mengurangi potensi penularan dengan mengubah perilaku dan melengkapi pra-sarana dan sarana
- ▶ Perlu disiplin dari semua pihak

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