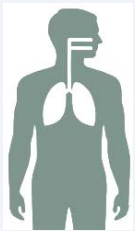


Humidity Range (low-medium-high) is crucial for Infection Risk by Airborne Microbes, Comfort and Disease of Airways



Microbes suspended in Droplets “Wet Aerosols”

from **Airways**



by
Breathing
Coughing
Talking

from **Intestine** and
Body Fluids



by
Vomiting
Excretions
Faeces

by **Everyday** and **Medical
Activities (Aerosolisation)**

Hand Washing
Hand Dryer



Toilet Flushing



Invasive Diagnostic
Bronchoscopy
Colonoscopy etc.

Microbes adherent to Carriers “Dry Aerosols”

from **Skin, Clothes, Shoes**
and **stirred up “Dust”**

Entire Body Surface,
Hair, Clothes, Under-
wear, Shoes



“settled Dust” as **Fomite**
resuspended by
Human Activity & Airflow

low Humidity

< 50 % RH



high Infection Risk



low Comfort

Disease Risk of Airways

medium Humidity

> 50 % RH



low Infection Risk



high Comfort

no Disease Risk of Airways

high Humidity

≈ 100 % RH



high Infection Risk



low Comfort

Disease Risk of Airways

rel. Humidity



Re-Suspension



Aggregation



Settling velocity



Risk & Exposure

