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People matter

- People contribute greatly to pharmaceutical success, making medicines in a compliant manner and adding expertise.
- However, in cleanrooms the actions of people can lead to contamination.



Cleanrooms

- The pharmaceutical manufacturing environment is based around a series of rooms with specially controlled environments.
- These are termed 'clean rooms'.
- A clean room or zone, on one level, is simply a room that is clean. The key aspect, however, is that the level of cleanliness is *controlled*.





Contamination risks #1

- Cleanroom contamination can arise from:
 - People – 70%
 - Water – 10%
 - Air and ventilation - 10%
 - Surfaces - 5%
 - Transport of items in and out of clean areas – 5%





Risks from people #1

- People in cleanrooms are the major contamination source for microorganisms and particulates:
 - Skin flakes and oil
 - Cosmetics and perfume
 - Spittle
 - Clothing debris (lint, fibres etc.)
 - Hair
 - Touching and transfer
 - Rapid movements

Risks from people #2

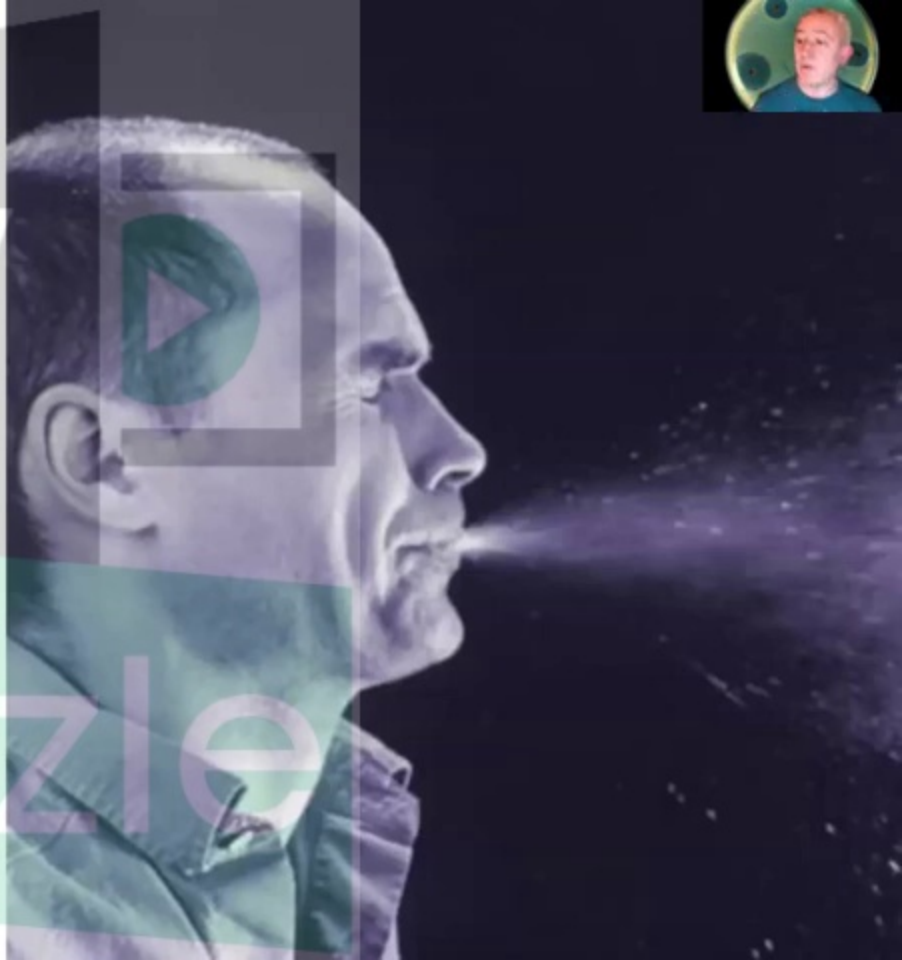
Average Numbers of Bacteria on a Healthy Person



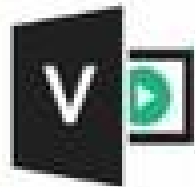


Risks from people #3

- Microorganisms are also spread from sneezing, coughing & touching
- People are not only a source of contamination they are an agent for transferring contamination – possibly to locations which could be harmful



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