



**NTNU**  
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Science and Technology

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# Ventilation and indoor air quality in hospitals

## Research challenges

- The effect of medical equipment on the airflow distribution from the laminar ceiling diffuser
- The interaction between the patient thermal plume and downward airflow distribution
- Measurements of dynamic distribution of particle and bacteria concentrations



## Research methods

- Experimental measurements
- Numerical simulation
- Field investigation
- Simulated patients

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