

# Airmid Healthgroup Contributes to Dyson Study on Hand Washing, Drying, and Indoor Air Quality



## Overview

Airmid Healthgroup contributed to the experimental work and statistical analysis of a study funded by [Dyson](#) examining the impact of hand washing and drying methods on indoor air quality. The study revealed that both jet air dryers and paper towels increased aerosol and bacterial levels but showed no significant differences between the two methods, providing valuable insights for public hygiene practices.

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## Background

Hand hygiene is critical for infection prevention, yet the effect of hand drying methods on indoor air quality is often overlooked. This study aimed to assess the contribution of jet air dryers, in this case Dyson hand dryers, and paper towels to airborne aerosols and bacteria in controlled washroom conditions.

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## Study Design and Key Findings

The research involved volunteers washing and drying their hands in a controlled environment while measuring aerosols and bacterial concentrations. Results showed that both drying methods increased airborne particles and bacteria, but neither had a statistically significant advantage or disadvantage over

the other.

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## **Impact of Airmid Healthgroup's Contribution**

Airmid Healthgroup's expertise was central to the study's success. By contributing to the experimental work and conducting statistical analyses, Airmid ensured the results were robust and scientifically reliable. Their validation provided confidence in the findings, supporting the conclusion that neither jet air dryers nor paper towels pose a significant additional risk to indoor air quality.

This contribution is particularly important as it helps dispel misconceptions about hand drying methods while reinforcing their safety and effectiveness. The results equip public health officials and facility managers with reliable data to guide decisions about hand hygiene infrastructure in public spaces.

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## **Conclusion**

Airmid Healthgroup's involvement has advanced the understanding of how hand drying methods influence indoor air quality. The study confirms that both jet air dryers and paper towels are safe, effective options, offering flexibility in public washroom designs. By validating these findings, Airmid has contributed to the development of evidence-based hand hygiene practices that benefit public health.

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