

# Effectiveness of alcoholic hand disinfectants in a public administration

<b>Submission date</b> 23/03/2010	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
<b>Registration date</b> 12/04/2010	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
<b>Last Edited</b> 29/12/2020	<b>Condition category</b> Respiratory	<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Nils-Olaf Hübner

**Contact details**  
Rathenastr. 49a  
Biotechnikum  
Greifswald  
Germany  
17489  
-  
nhuebner@uni-greifswald.de

## Additional identifiers

**Protocol serial number**  
N/A

## Study information

**Scientific Title**  
Effectiveness of alcoholic hand disinfectants in a public administration: impact on health and work performance related to acute respiratory symptoms and diarrhoea

## **Study objectives**

Large community studies in Europe and USA have shown that communicable diseases have a great impact on morbidity and lead to millions of lost days at work, school and university each year. Hand disinfection is acknowledged as key element for infection control, but its effect in open, work place settings is unclear. Our study assessed the epidemiological and economical impact of alcoholic hand disinfectants use at work place.

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

Ethics Board of the Medical Faculty of the University of Greifswald approved on the 27th January 2010 (ref: BB02/10)

## **Study design**

Prospective controlled intervention-control group design

## **Primary study design**

Interventional

## **Study type(s)**

Prevention

## **Health condition(s) or problem(s) studied**

Acute respiratory symptoms, diarrhoea

## **Interventions**

Participants in the intervention group were instructed how to use the hand rub and advised to use it at least five times daily, especially after toilet use, blowing nose, before eating and after contact with ill colleagues, customers, and archive material. The hand rub was only used at work, while hand hygiene at home was not changed. Hand hygiene remained unchanged in the control group. During the study, close contact was maintained with all participants.

Every participant was observed for 12 months.

## **Intervention Type**

Other

## **Phase**

Not Applicable

## **Primary outcome(s)**

Monthly surveys were sent to participants of both groups collecting data on illness symptoms (common cold, sinusitis, sore throat, fever, cough, bronchitis, pneumonia, influenza, diarrhoea) and associated absenteeism. Test persons reported illness and absenteeism days per month for each symptom. Appearance of at least one day ill was counted as an illness episode for the current month.

## **Key secondary outcome(s)**

Participants filled out a post-study survey to assess post-intervention compliance with hand hygiene.

**Completion date**

01/04/2006

## Eligibility

**Key inclusion criteria**

We recruited employees from the administration of the Ernst Moritz Arndt University Greifswald, the municipality of Greifswald and the state of Mecklenburg-Pomerania, for the study. All administrative officers, who do not already apply hand disinfection at work, were considered for participation.

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

Officers who already use alcoholic hand disinfection

**Date of first enrolment**

01/03/2005

**Date of final enrolment**

01/04/2006

## Locations

**Countries of recruitment**

Germany

**Study participating centre**

Rathenastr. 49a

Greifswald

Germany

17489

## Sponsor information

## Organisation

Bode Chemie GmbH (Germany)

## ROR

<https://ror.org/0447s2m06>

## Funder(s)

### Funder type

Industry

### Funder Name

Bode Chemie GmbH (Germany) - provided hand disinfectant free of charge

## Results and Publications

### Individual participant data (IPD) sharing plan

### IPD sharing plan summary

Not provided at time of registration

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	24/08/2010	29/12/2020	Yes	No