

# Ward oriented pharmacy In Newly admitted Geriatric Seniors (WINGS)

**Submission date**

22/12/2010

**Recruitment status**

No longer recruiting

☐ Prospectively registered

☒ Protocol

**Registration date**

07/02/2011

**Overall study status**

Completed

☐ Statistical analysis plan

☒ Results

**Last Edited**

20/06/2022

**Condition category**

Injury, Occupational Diseases, Poisoning

☐ Individual participant data

**Plain English summary of protocol**

Not provided at time of registration

## Contact information

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Scientific

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## **Additional identifiers**

**Protocol serial number**

N/A

## **Study information**

### **Scientific Title**

The effect of an active on-ward participation of hospital pharmacists in internal medicine teams on preventable adverse drug events in elderly in-patients

### **Acronym**

WINGS Study

### **Study objectives**

To investigate whether an active participation of hospital pharmacists in a care team on the ward can be an effective approach in reducing prescribing errors and related patient harm in elderly in-patients admitted to Internal Medicine ward.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Before the start of this study, the research protocol was submitted for consideration to the Medical Ethics Committee of the Academic Medical Center/University of Amsterdam. This Medical Ethics Committee judged the protocol as not needing an official approval.

This decision was sent in a letter by Medical Ethics Committee, dated 14th February 2007 (ref: 0717.0176). In this letter the Medical Ethics Committee states that for the above mentioned scientific project, the Dutch Medical Research involving Human Subjects Act (WMO) does not apply. This means that an official approval of the study by our committee is not required.

### **Study design**

Multicentre interrupted time series study

### **Primary study design**

Interventional

### **Study type(s)**

Quality of life

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

Adverse drug events

### **Interventions**

"Ward Oriented Pharmacy", a concept based on Clinical Pharmacy practice, will be developed and introduced to Internal Medicine wards. "Ward Oriented Pharmacy" entails an active participation of hospital pharmacists in care teams by implementing a multidisciplinary medication-safety program for elderly in-patients.

In the WINGS study an interrupted time series design is used. Before and after the introduction of the intervention on the Internal Medicine wards, a pre- and post- measurement was performed.

Per measurement three data points were strategically chosen (a total of six data points). Every data point had at least 50 patients included. The data for the pre-measurement were collected between April 2007 and November 2007. The data for the post-measurement were collected between November 2009 and June 2010.

If an included patient was readmitted or died within 3 months after index hospitalisation (hospitalisation included in the study), this outcome was recorder in a WINGS database.

### **Intervention Type**

Other

### **Phase**

Not Applicable

### **Primary outcome(s)**

1. The incidence, severity, type, preventability and follow-up of ADEs in elderly in-patients
2. The number of all and preventable ADEs per 100 admissions of elderly in-patients admitted to an Internal Medicine ward

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

1. The number of selected medication errors per total number of medication orders
2. The number of readmissions within 3 months after index admission

### **Completion date**

01/03/2010

## **Eligibility**

### **Key inclusion criteria**

1. Participating hospitals are: Academic Medical Centre in Amsterdam, Westfries Gasthuis Hospital in Hoorn, Spaarne Hospital in Hoofddorp, the Netherlands
2. All consecutive patients aged 65 years or older
3. Length of stay of 24 hours or longer
4. Using 5 or more scheduled medications
5. Admitted to a internal medicine ward of the participating hospitals during observation points

No patient will be sampled more than once.

### **Participant type(s)**

Patient

### **Healthy volunteers allowed**

No

**Age group**

Senior

**Sex**

All

**Total final enrolment**

250

**Key exclusion criteria**

1. Admitted for scheduled chemotherapy, radiation therapy or transplantation
2. Transferred from another hospital or from another non-internal medicine ward within the hospital

**Date of first enrolment**

01/03/2007

**Date of final enrolment**

01/03/2010

**Locations****Countries of recruitment**

Netherlands

**Study participating centre**

Department of Hospital Pharmacy

Amsterdam

Netherlands

1105AZ

**Sponsor information****Organisation**

The Netherlands Organization for Health Research and Development (ZonMw) (Netherlands)

**ROR**

<https://ror.org/01yaj9a77>

**Funder(s)**

**Funder type**

Research organisation

**Funder Name**

The Netherlands Organization for Health Research and Development (ZonMw) (Netherlands)

## Results and Publications

**Individual participant data (IPD) sharing plan**

Not provided at time of registration

**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	01/01/2013		Yes	No
<a href="#">Results article</a>		05/08/2013	13/05/2022	Yes	No
<a href="#">Results article</a>		17/06/2022	20/06/2022	Yes	No
<a href="#">Protocol article</a>	protocol	25/05/2011		Yes	No