

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

Type(s)

Scientific

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Additional identifiers

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.

Primary study design

Interventional

Study design

Multicentre interrupted time series study

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?
Results article	results	01/01/2013		Yes	No
Results article		05/08/2013	13/05/2022	Yes	No
Results article		17/06/2022	20/06/2022	Yes	No
Protocol article	protocol	25/05/2011		Yes	No