Evaluation of Current Implementation of BTS/NICE Clinical Quality Standards In Community Acquired Pneumonia (CAP): A UK retrospective follow-up study

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Study Finalised

Administrative details

EU PAS number

EUPAS28667

Study ID

28668

DARWIN EU® study

No

Study countries

United Kingdom

Study description

CRB65 scores have been recommended for assessing the severity of CAP and thereby determining clinical management, but it is not known how frequently these scores are used in primary care. This protocol aims to assess the use of CRB65 scores in UK primay care from 2009 to 206 using electronic medical records.

Study status

Finalised

Research institutions and networks

Networks

Respiratory Effectiveness Group (REG)

- Belgium
- Denmark
- France
- Germany
- Greece
- Hungary
- Italy
- Netherlands
- Spain
- Sweden
- United Kingdom

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Network ENCePP partner

Contact details

Study institution contact

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Primary lead investigator

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Primary lead investigator

Study timelines

Date when funding contract was signed

Actual: 05/01/2018

Study start date

Actual: 16/07/2018

Data analysis start date

Actual: 23/07/2018

Date of final study report

Actual: 06/02/2019

Sources of funding

- Other

More details on funding

Respiratory Effectiveness Group

Study protocol

REG_NICE Standards CAP Protocol_v2_Final.pdf (265.64 KB)

Regulatory

Was the study required by a regulatory body?

No

Is the study required by a Risk Management Plan (RMP)?

Not applicable

Methodological aspects

Study type

Study type list

Study topic:

Disease /health condition

Study type:

Non-interventional study

Scope of the study:

Disease epidemiology

Data collection methods:

Secondary use of data

Main study objective:

To assess the degree to which CRB65 scores are utilised in primary care in the UK

Study Design

Non-interventional study design

Cross-sectional

Study drug and medical condition

Medical condition to be studied

Community acquired infection

Population studied

Short description of the study population

The patient must meet the following criteria:

• Have a diagnostic (Read) code for Community Acquired Pneumonia (CAP) CAP

• Diagnosed with CAP between 1 January 2009 and 31 December 2016
• Have a minimum of 56 days continuous EMR:
o ≥28 days immediately preceding the index date
o ≥28 days immediately following the index date
• Aged 18 years or older at index date

Age groups

- Adults (18 to < 46 years)
- Adults (46 to < 65 years)
- Adults (65 to < 75 years)
- Adults (75 to < 85 years)
- Adults (85 years and over)

Special population of interest

Other

Special population of interest, other

Community Acquired Pneumonia (CAP) patients

Estimated number of subjects

3.747

Study design details

Outcomes

Primary outcomes are the proportion of CAP actively managed in primary care, the percentage of actively managed cases with CRB65 score recorded on the day of CAP diagnosis, and key characteristics of CAP management in primary care. Secondary outcomes are antibiotic prescription and duration on day of

diagnosis, completeness of recording of components of CRB65 and annual trends in CRB65 reporting.

Data analysis plan

This is a descriptive observational study. The number of patients/observations and percentage per category, mean plus standard deviation and median plus inter-quantile range will be given, as appropriate. Statistical tests (e.g. F-tests, t-tests, chi-squared tests) and models (e.g. linear models) will be used, as appropriate.

Data management

Data sources

Data source(s)

Optimum Patient Care Research Database

Data source(s), other

Optimum Patient Care Research Database (OPCRD)

Data sources (types)

Electronic healthcare records (EHR)

Use of a Common Data Model (CDM)

CDM mapping

No

Data quality specifications

Check conformance

Unknown

Check completeness

Unknown

Check stability

Unknown

Check logical consistency

Unknown

Data characterisation

Data characterisation conducted

Unknown