Real-life effectiveness evaluation of changing inhaler device for asthma treatment in Korea (Transfform)

First published: 02/03/2016 Last updated: 23/04/2024



Administrative details

PURI

https://redirect.ema.europa.eu/resource/19838

EU PAS number

EUPAS12275

Study ID

19838

DARWIN EU® study

No

Study countries

Korea, Republic of

Study description

A historical, observational study to evaluate the real-life effectiveness and costeffectiveness of asthma treatment in the HIRA Database of Korea specifically examining the switch from the use of dry powder to pressurised metered dose inhalers.

Study status

Finalised

Research institutions and networks

Institutions



Contact details

Study institution contact Simon Yau



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Primary lead investigator David Price Primary lead investigator

Study timelines

Date when funding contract was signed Planned: 03/02/2016 Actual: 15/04/2016

Study start date Planned: 31/03/2016 Actual: 16/09/2016

Data analysis start date Planned: 29/04/2016 Actual: 23/09/2016

Date of interim report, if expected

Planned: 01/11/2016 Actual: 31/01/2017

Date of final study report Planned: 02/01/2017 Actual: 11/07/2017

Sources of funding

- Other
- Pharmaceutical company and other private sector

More details on funding

Mundipharma Asia, RIRL

Study protocol

20160203_TransfformHIRAv1.pdf(1.25 MB)

Transform HIRA Final Study Report_v1.pdf(3.48 MB)

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 Human medicinal product

Study type: Non-interventional study

Scope of the study: Effectiveness study (incl. comparative)

Data collection methods: Secondary use of data

Main study objective:

To assess asthma outcomes in patients who switch from DPI to pMDI devices and who continue with DPI devices in Korea.

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Study drug International non-proprietary name (INN) or common name BUDESONIDE FORMOTEROL FUMARATE FLUTICASONE PROPIONATE FLUTICASONE FUROATE SALMETEROL XINAFOATE BECLOMETASONE DIPROPIONATE MONOHYDRATE BECLOMETASONE DIPROPIONATE

Medical condition to be studied

Asthma

Population studied

Short description of the study population

Asthma patients aged 12-80 years at date of first prescription for LABA/ICS pMDI or a repeat prescription for LABA/ICS DPI obtained from the Korean Health Insurance Review and Assessment (HIRA) service database.

Age groups

Infants and toddlers (28 days – 23 months) Children (2 to < 12 years) Adolescents (12 to < 18 years) 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

Hepatic impaired Immunocompromised Pregnant women

Estimated number of subjects

2000

Study design details

Outcomes

Switch persistance, defined as: Percentage of ICS/LABA pMDI patients who received \geq 3 prescriptions of ICS/LABA pMDI in addition to that issued at their prescription date at 6 months, (a) % non-exacerbating patients of 'switch' cohort at 1 year, compared to baseline% of 'switch' cohort who have no severe exacerbations within 1 year of switching at 1 year, compared to year before switching (b) Severe asthma exacerbation rate (American Thoracic Society/European Respiratory Society statement definition) within the 1 year period

Data analysis plan

Summary statistics will be produced for all baseline variables. The baseline variables for the two cohorts will be compared using the following tests:• Variables measured on the interval/ratio scale:- t-test (normal distribution)-Mann-Whitney U test (skewed data)• Categorical variables:- Chi-square testResults will be reported as: • Variables measured on the interval/ratio scale:- Sample size (n) and percentage non-missing- Median and inter-quartile range (25th and 75th percentiles)• Categorical variables:- Sample size (n)-Count and percentage by category (distribution)Based on an expected "switch-back" probability of approximately 0.20 (20%) among patients switching from existing ICS/LABA DPI to ICS/LABA pMDI at their prescription date, a sample size of 100 patients per switch cohort would be sufficient to construct a 95% one-sided confidence interval with an upper bound of less than 0.30 (30%) to power the evaluation of ICS/LABA pMDI "switch success"

Data management

ENCePP Seal

Conflicts of interest of investigators transformHIRAauthoraffiliations.pdf(82.71 KB)

Composition of steering group and observers steering commiteeHIRA.pdf(94.32 KB)

Data sources

Data sources (types) Administrative healthcare records (e.g., claims)

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