

*17<sup>th</sup> ANNUAL MEETING  
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**Pharmacist's intervention to  
reduce patient non-adherence**  
*The French experience*

Florence PETIT - France

# *NON-ADHERENCE*

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- ❖ Preliminary results of a survey carried out on asthma patients
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## *Preliminary results of a survey carried out on asthma patients (1)*

### Description :

- A survey had been carried out on asthma patients over a 12 months period from December 2006 in two region and from June 2007 in a third region

# *Preliminary results of a survey carried out on asthma patients (2)*

## Objective

- to measure the clinical and economic impact of structured meetings on treatment outcome of asthma patients

## *Methodology*

- ❑ Pharmacies enrolment based on voluntary
  - 57 in an intervention group, → 117 patients
  - 23 in a control group, → 38 patients
  
- ❑ Patient inclusion criteria: patient 18 to 45 old, known from the pharmacy since one year and with a prescription containing one or more asthma medicine

## *Preliminary results of a survey carried out on asthma patients (3)*

- A kit was provided to all pharmacies :
  - A questionnaire
  - A form to collect patients' education needs for the structured meeting
  - The Asthma Control Test form
  - Patient's leaflets
  
- Pharmacists training sessions

## *Preliminary results of a survey carried out on asthma patients (4)*

The pharmaceutical care process for the intervention group

- Month 1 : questionnaire + peak-flow rate + ACT + a structured meeting to meet patient education needs
- Month 4 : peak-flow rate + ACT
- Month 8 : peak-flow rate + ACT
- Month 12 : peak-flow rate + ACT + questionnaire

## *Preliminary results of a survey carried out on asthma patients (5)*

### Patient profile (sample)

- 63% of patient are uncontrolled (ACT<20)
- 70% of patients evaluate themselves as well controlled
- patients do not recognize easily aggravation signal
- 20% stopped their corticoid treatment (for 72% of them, their asthma was uncontrolled)

## *Preliminary results of a survey carried out on asthma patients (6)*

### Results

- an improvement of patient knowledge on the disease and the treatment
- an improvement of asthma control
- a decrease of emergency visit in hospital (8% vs 3%) and work missed (13% vs 5%)
- a decrease of beta2 agonists consumption

## *Results on ACT*

	<b>Inclusion</b>	<b>4th Month</b>	<b>8th Month</b>	<b>12th Month</b>
<b>Group A (97 patients)</b>	<b>39,8%</b>	<b>55,1%</b> <b>p=0,0090</b>	<b>54,1%</b> <b>p=0,0231</b>	<b>64,3%</b> <b>p&lt;0,01</b>
<b>Placebo group (19 patients)</b>	<b>24,1%</b>	<b>42,1%</b> <b>p=0,1025</b>	<b>31,6%</b> <b>p=0,3173</b>	<b>42,1%</b> <b>p=0,1025</b>

## *Results on Emergency visits and missed work in the past year*

	<b>Inclusion</b>	<b>12th Month</b>	<b>Mc Nemar Test</b>
<b>Emergency visits</b>	<b>8%</b>	<b>3%</b>	<b>p=0,06</b>
<b>Missed Work</b>	<b>13%</b>	<b>5%</b>	<b>p=0,04</b>

*Mean of twelve months consumption  
of beta 2 agonists*

	<b>At Inclusion</b>	<b>At 12th Month</b>
<b>Intervention group</b>	<b>4,3</b>	<b>3,62</b>
<b>Control group</b>	<b>6,1</b>	<b>4,7</b>

## *Conclusion*

The preliminary results of this study clearly identify a beneficial impact of the pharmacist intervention on adherence through indicators as asthma control, emergency department visit to hospital and missed work.

## *The pharmaceutical record in France*

- ❖ A new professional electronic tool for the pharmacist's use
- ❖ It contains all the medicines dispensed (prescribed or OTC) to a patient in the last 4 months
- ❖ It is shared by all French pharmacies through a service of a central "Data Host"

# *The pharmaceutical record in France*

## Objectives

- To make the dispensation of medicines more secure
- To detect drug interactions
- To detect redundant treatments
- To increase patient adherence

# *The pharmaceutical record in France*

🌀 What data the DP include ?

- 🌀 The patient's identification
- 🌀 The drugs identification
- 🌀 The quantity dispensed
- 🌀 The date of dispensation

# *The pharmaceutical record in France*

## 🌀 How the DP works ?

- ❑ the pharmacist downloads the patient's DP in 3 seconds
- ❑ his computer software automatically looks for possible redundant treatments and interactions
- ❑ if a problem exists, it appears on the screen and the pharmacist decides what to do
- ❑ The pharmacist may identify a lack of dispensation of a chronic treatment and ask the patient.

# *The pharmaceutical record in France*

## ✿ Its impact on adherence

- The pharmaceutical record make it possible to detect no dispensation of a chronic treatment in the last 4 months

Thank you for your attention

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