Purpose To evaluate the impact of automation on medicines management at our duty pharmacy, and to determine its limits in order to improve them.

Materials and Methods We analysed the organisational aspects from the database of the ADDS deposited at the MVMTH duty pharmacy. The study lasted one year (2010). We also used a questionnaire completed at the end of the study period by the 12 Pharmacy Technicians (PharmTs) working at our hospital pharmacy (6 juniors with less than 5 years of professional experience and 6 seniors with more than 10 years of professional experience, all performing the same tasks during duty hours), in order to evaluate their view of automation.

Results

- 5444 transactions were accomplished (63% by juniors and 37% by seniors);
- injection forms were the most delivered (68%) followed by oral forms (29%);
- anti-inflammatories, analgesics and antispasmodics were the most required on duty hours (26%) followed by antibiotics and antiviral drugs (25%);
- according to PharmTs:
- the main advantages were:
 - saving time in locating medicines (≈83 minutes saved per week, reallocated to other tasks): 8 PharmTs;
 - limiting personal drug use: 5 PharmTs.
- the main constraints were:
 - the irregular machine resupply (poorly done or not done at all) by the technician on duty whose job it is to replenish drugs consumed during the previous day: 10 PharmTs;
 - the reduced capacity for storing all medicines, especially refrigerated and oversized ones: 6 PharmTs.

Conclusions The automated drug dispensing system offers many advantages. However, there are still things to improve concerning machine resupply, storage capacity and storage conditions before decentralisation to hospital services.

No conflict of interest.

DSL-014 FINANCIAL EVALUATION OF THE SURPLUS GENERATED BY THE DISPENSING OF SUNITINIB IN THE LOCAL HEALTH SERVICE OF REGGIO EMILIA

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Background Oral cancer treatment has revolutionised the approach to the disease, as invasive procedures are no longer required, and patients can continue their daily life with practical and psychological benefits.

Purpose To check whether the packaging of Sutent (sunitinib), an oral cancer drug monitored by the Italian Medicines Agency (AIFA), dispensed by two District Pharmaceutical Units (UFD) of the Local Health Service (LHS) of Reggio Emilia, is suitable in terms of dosage units, to ensure coverage of the treatment plan prescribed to cancer patients. The marketing packaging authorised contains 30 capsules.

Materials and Methods From September 2007 to September 2012, patients included in this study were dispensed Sutent at least once. We used the record of oncology drugs monitored closely by AIFA to obtain information about patients:

- number of prescriptions dispensed
- dose/day prescribed (e.g. 50 mg);
- total dose prescribed (e.g. 1400 mg);
- total dose dispensed (e.g. 1500 mg);

The total dose of medicine prescribed, corresponding to one treatment cycle (i.e. 28 capsules) is less than the total dose of drug dispensed, corresponding to 30 capsules. For each cycle, there is a predictable surplus of 2 capsules.

Results More was paid than was necessary, for surplus Sutent, reported for 31 patients.

The overall cost of treatment provided in the study period was €492,278. The excess Sutent capsules represent 6.67% of the total cost of treatment, i.e. €32,819.

Conclusions In order to save money, it would help to dispense to the patient the exact number of dosage units required by the prescription.

This idea is supported by an analysis of the savings made for Xeloda. All patients received the exact number of dosage units in all UFD of the LHS of Reggio Emilia. From January 2010 to June 2012 savings were made by the Health Authority of €57,602.

No conflict of interest.

DSL-015 FINANCIAL IMPACT OF ANTI-VEGF IN OPHTHALMOLOGY

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Background The use of drugs with active ingredients produced through genetic engineering is often associated with oncology, rheumatology, dermatology and gastroenterology treatment although today there is wider use in cardiology (canakimumab) for certain products for the treatment of ocular pathologies, with particular reference to the retinal pathologies.

Currently the active principles used in ophthalmology are ranibizumab, pegaptanib and bevacizumab. The first two active ingredients are marketed in syringes ready for intravitreal use, but bevacizumab does not have a formulation different from that for use in oncology.

Ranibizumab is a fragment derived from the immunised antibody bevacizumab that exerts its anti-neogenic and vascular permeability-reducing actions by blocking VEGF (endothelial growth factors) with particular reference to isoforms VEGF165, VEGF121 and VEGF110. It is able to penetrate all the layers of the retina and enter the subretinal space.

Purpose To evaluate the economic impact of anti-VEGF drugs on the budget of the ophthalmology department and the average cost of treatment with ranibizumab considering a series of patients treated for age-related macular degeneration (AMD) at the Ophthalmology department in the Paolo Giaccone Hospital, Palermo.

Materials and Methods The consumption data were obtained from the accounting system of the integrated Polyclinic company, data on doses were obtained from a selection of patients who have had treatment from one to four years, and data were extracted from the AIFA monitoring log for ophthalmic medicines.

Results During the years 2007 to 2011 the share of the budget absorbed by anti-VEGF increased from €58,375.1 (45% of annual expenditure) to 246,592.71 (84% of expenditure).

Given that the administration characteristics cannot be standardised we recorded the number of administrations for the patients treated.

8 patients that have been identified for a year's treatment received 3 to 4 administrations at an average cost per patient of Euro 4,023.25.

19 patients were treated for 2 years with average spending Euro 6,776 (4–9 doses) and a total cost 128,774 euros.

8 patients were treated for 3 years, average Euro 10,201.81 (6–13 doses) total expenditure Euro 81,614.5; Finally

5 patients were treated for 4 years, average Euro 13,334.2 (9–17 doses) total spending Euro 66,671.

It was possible to note that as the years of treatment increased the gap between administrations widened.

Results In the near future the ageing population will increasingly request good treatment of AMD. The latest ISTAT data indicate an increase in population over the age of 65 years (18.5% of the population). Evaluating the incidence of AMD at 3.68% (EUREYE study)