Prices of Medicines, Including High-Cost Cancer Medicines, in a Hospital Setting Compared to Outpatient Use

Sabine Vogler¹, Claudia Habl¹, Christine Leopold¹, Jan Mazag², Nina Zimmermann

¹Health Economics Department / WHO Collaborating Centre for Pharmaceutical Pricing and Reimbursement Policies (WHO CC), Gesundheit Österreich GmbH (GÖG) / Austrian Health Institute, Austria; ²Slovak Medicines Agency

Abstract

Prices of Medicines, Including High-Cost Cancer Medicines, in a Hospital Setting Compared to Outpatient Use Compared to Outpatient Use Sabine Vogler', Claudia Habi', Christine Leopold', Jan Mazag', Nina Zimmermann 'Gesundheit Osterreich GmbH (GÖG), Austria', Stovak Medicines Agency Problem statement: There is poor knowledge of pharmaceutical prices of medicines used in the Inos setting. The reament in the inpatient each, however, has consequences for choice of medicines

Objectives: To investigate the prices of medicines used in hospitals and to compare them to the outpatie

sector Design: Price survey for a selected number of medicines (12 active ingredents), including four cancer medicines and one orphan medicine: original price collection in hospital, accompanied by qualitative medicines and one orphan medicine: original price collection in hospital, accompanied by qualitative medicines and provide the service of the sector of the sector of the sector of the sector of the price information price into an orbit of 25 hospitals (at public hospitals—at Querean hospitals and Sector of the price information), and Sector of the relative sector of the relative sector of the relative sector of the relative sector of the relative sector of the collection of the protes. In hospitals, according the sector of the s

as reference in the outpatient sector. Outcome measure(): Availability of price data for the hospital setting and outpatient sector, cross-countr comparison of actual hospital prices; differences between the average hospital ist prices and actual hospital prices; comparisons between hospital prices (difficial and actual) and outpatient prices Results: For some of the selected products actual hospital prices were lower compared to the difficial hospital inforce; compared not hospital prices (difficial and actual) and outpatient prices neares the outpatient prices. Discourts and hospital ist prices, which corresponded to the cases the outpatient prices are equil to the difficial hospital ist prices, which corresponded to the

odpatient prices. The price web equal to the other includes in prices, which consequences to the Conclusions: The price modector granted to hospitals, which eventually leads to a lower price compared to the outpatient sector, depends on the therapeutic class. When only one on-patient product is available (such as for the cancer medicines of the survey), price reductions are less likely. Price reductions, including coat-tree medicines, are granted for products that are of strategic relevance for manufacturers (i.e. medicines that are to be continued in the outpatient treatment, e.g., card/ouclar/are modicines). Funding source(s): European Commission, Executive Agency for Health and Consumers (EAHC); Austrian Federal Minary of Health

Prices of an oncologic medicine (on-patent), per unit



Background Medicines management in hospitals is very important, both for patients as well as financially. The starting treatment in hospitals has a major impact on outpatient care since this influences the further choice of medicines prescribed after the patient has been discharged. Hospital medicines are often difficult to manage and are used in complex clinical situations. New hospital medicines tend to have high prices and contribute significantly to the pharmaceutical bill. The cost of medicines in hospitals over the years has been fairly constant and relatively low (usually between 5 and 10% of a nation's pharmaceutical budget) and thus not a priority for policy makers. With the introduction of expensive new medicines and orphan medicines this has changed: the hospital pharmaceutical budget is currently increasing disproportionally. As a result it has

attracted the interest of policy makers. Despite its importance, knowledge of the prices of medicines used in the hospital setting is poor. Medicines procured for hospitals are assumed to be significantly less expensive than those used in the out-patient sector

- Objectives To investigate the prices of medicines
- used in hospitals. including surveying hospital official list prices and actual hospital prices and
- to compare the medicines prices to those of the out-patient sector

Selected active ingredients

	Active ingredient	ATC Code
1	Trastuzumab	L01XC03
2	Docetaxel	L01CD02
3	Rituximab	L01XC02
4	Etanercept	L04AB01
5	Imatinib	L01XE01
6	Immunglobulin	J068A02
7	Inflormab	L04AB02
8	Interferon beta-1a	L03AB07
9	Amlodipin	C08CA01
10	Simvastatin	C18AA01
11	Atorvastatin	C10AA05
12	Clopidogrel	B01AC04

Range of actual hospital prices for selected medicines (average price for country = 100) per unit in five European countries 2009



Methods

For the price survey twelve active ingredients were selected based on defined criteria. Medicines which account for high expenditure in hospitals, but also products with available generic alternatives were included. The price survey aimed at comparing actual hospital prices achieved in the purchasing process for the same products in different hospitals and compared to the official list prices, as well as showing possible differences in prices between the countries The prices were collected in 25 hospitals in five countries (Austria, the Netherlands, Norway, Portugal, and Slovakia). All 25 hospitals were public hospitals; 24 were general hospital and 1 was a specialized hospitals

We asked for prices as of 30 September 2009. A price template was prepared.

Access to out-patient prices was done via the Pharmaceutical Price Information (PPI) service run by the Austrian Health Institute

Methods/continued



Differences between average official hospital prices and the average actual hospital prices for selected medicines (index = 100 = average official hospital list price) of oncology medicines and ology medicines in five European countries, 2009



Results/1

The price survey showed that the actual hospital prices of some products were lower compared to the official hospital list prices. This was due to price reductions granted by the suppliers to the purchasers (procurement agency, purchasing group, individual hospital) in the procurement process. A commonly applied form of price reductions is discounts at the time of buying medicines which were observed in a range from 1 to 100% for the case study hospitals. In Austria and Portugal retrospective rebates are granted to hospitals e.g. at the end of the year. The practice of providing medicines cost-free to Austrian hospitals was reflected in prices of € 0.- for some products.

Results/2

The amount of price reductions considerably depends on the therapeutic class. In the case of just one on-patent product being available, price reductions are less likely. The survey showed, for instance, that for (mostly on-patent) oncologic medicines hospitals could not achieve any reductions and paid a price equivalent to the official list price. The availability of generics tended to result in lower price levels. Price reductions, including cost-free medicines, were observed for products which are of strategic relevance for manufacturers, i.e. medicines which are to be continued in the out-patient treatment. These are e.g. cardiovascular products for which price differences between the actual hospital prices and the official list prices were seen.

The same pattern regarding the amount of price reductions depending on the therapeutic class was reflected in the comparison of the actual hospital prices to the prices in the out-patient sector. For some products, a price difference of up to 30-50% between the in-patient and out-patient sector could be observed.

Conclusions The actual hospital prices are usually less than the maximum list prices although the amount varies by therapeutic class of medicines

The actual achieved prices are the relevant prices to be considered for analyses and comparisons. Suppliers might offer a wide range of price reductions, either as discounts, rebates or other forms like bundling. The majority of countries reporting on discounts stated discounts of 25% to 40%. But discounts might range from 1% to up to 100%, and in five countries medicines are provided cost-free to hospitals.

> Contact: Gesundheit Österreich GmbH Stubenring 6, 1010 Vienna, Austria E-mail: sabine.vogler@goeg.at; Tel: +43/1515 61 147 http://whocc.goeg.at

Conclusions

Discounts are less likely to be provided where there is only an on-patent product available. For these medicines the bargaining power of the hospitals is rather weak. These on-patent products (e.g. some oncology medicines, orphan medicines) where no competition is possible often account for an important portion of the hospital pharmaceutical budget. However, as soon as therapeutic alternatives are available considerable room for discounts may exist For some "strategic" products prices in the hospital sector are considerably lower than in the out-patient sector. The actual hospital prices of the surveyed medicines are less than in the out-patient sector. For specific products (e.g. for chronic diseases) which are most likely to be followed up in the out-patient treatment and thus are economically very relevant for the pharmaceutical companies, the price range between in-patient and out-patient sector is considerable.

Policy implications

The study has shown a clear need for improving the transparency of medicines prices. Price distortions by discounts, rebates and price reduction were observed, and there is a need to address this issue in future. Price surveys and comparisons of medicines used in hospitals should consider not only the official list prices. but also the actual prices. The study has also displayed different marketing

strategies applied with regard to different kind of medicines: For many high-cost medicines (with no alternatives) hospitals have to pay the same prices as the payers in the out-patient sector. With regard to highcost medicines, payers of each sector (out-patient and in-patient sector) try to shift the treatment of the patient with such medication (and thus the funding) to the other sector) which is at the detriment of patients and the whole system. Measures to improve the cooperation between the in-patient and out-patient sector (e.g. interface management) are urgently needed.