The Prescrire Packaging Working Group

Since the very first issue of our French edition *la revue Prescrire*, we have examined the packaging of several thousand pharmaceutical products. The methodology used to analyse drug packaging was developed with the following objectives in mind:

 to alert subscribers to defective packaging that might affect a drug's risk-benefit balance;

 to familiarise subscribers with the pitfalls associated with poorly designed packaging, so that they can minimize risks, and warn regulatory authorities and patients;

 to familiarise subscribers with differences in packaging design among competing products, thus helping them choose between products that contain either the same substance or related substances with similar riskbenefit balances;

- to inform subscribers when a drug has well-designed packaging, and is therefore a preferred option.

Standardised analysis. The packaging of each product presented in the New Products section is first examined by the principal editor of the first draft of the relevant article, and then by the section chief, using a standardised questionnaire. This includes a series of questions corresponding to the different situations in which a particular type of packaging may be used, and different potential users. This assessment takes into account the drug's therapeutic value as compared to existing alternatives. Every component of packaging is scrutinised. This includes the labelling, devices for preparing and administering the product, lids and other systems for closing containers, and patient information leaflets. The editor then rates the quality of the packaging, taking into account the therapeutic value of the drug. Important information concerning packaging, especially any inherent risks or defects, is mentioned in the published article.

The Packaging Working Group. A team specialising in the analysis of drug packaging (the *Prescrire* Packaging Working Group) is responsible for summarising and completing the editorial team's analysis. In 2006, 656 products were examined for packaging quality, and about 250 observations, positive or negative, were made and classified on the basis of four features:

 labelling quality, focusing on legibility of the international non proprietary name (INN), the dose strength, the route of administration, and the appropriateness of graphics and colours;

 the degree to which the information provided in the patient leaflet and labelling (including pictograms and other instructions for use) conveys an understanding of the role and value of the medicine in the treatment of a specific health condition or specific symptoms;

- preparation and administration of the drug, focusing on any devices provided, in

the drug package or discussed in the dosing schedules mentioned in the summary of product characteristics (SPC), the treatment modalities mentioned in the leaflet, and items provided to ensure user safety;

- prevention of poisoning, through the use of a childproof closure on multiple-dose bottles containing dangerous substances, or a safety film for blister packs.

All these reports form the basis for the yearly packaging review, and for comparative analyses of packaging quality published during the year. At the end of year, the best and worst examples are re-examined in depth by the editorial team, and the laureates of the annual Packaging Awards are chosen.

Glossary. The editorial team is also responsible for developing a list of words and expressions applying to pharmaceutical packaging, as well as concepts used in a variety of documents: regulatory agency guidelines, pharmacopoeias, European and French regulatory laws, proprietary drug dictionaries, and various other documents. This research has led to the creation of a glossary of packaging-related terms and expressions, both in French and in English.

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Improving drug packaging: regulators can do better

ur 2006 packaging review identified many pharmaceutical products with poor-quality, potentially dangerous packaging.

In 2006, too many patients were exposed to a risk of severe adverse effects simply because of poorly designed packaging. Yet, all drug packaging is approved by a regulatory agency before being released onto the market. With some exceptions, drug companies design and manufacture the packaging of their products within a relatively loose regulatory framework and with little interference from regulators.

Much room for improvement. If regulators really want to make patients' wellbeing their first priority, they need to improve drug packaging through regulatory measures or by issuing guidelines. This should be done with the following aims:

- to ensure that the international nonproprietary name (INN) and the dose strength are clearly visible on the box and primary packaging (blister packs, bottles, vials, pens, etc.), along with the expiry date;

 to encourage the use of colours to distinguish between different dose strengths;

– to provide individual identifiers for multiple-dose blisters (pre-cutting is welcome in this case);

 to promote the use of clearly identified, appropriate and precise delivery devices, with graduations corresponding to quantities of the drug that are consistent with dosing schedules;

 to protect users from the risks of infection tion and toxicity (safety caps on bottles, tamperproof film on blister packs, safety devices for needles, etc.);

- to ensure that patient leaflets are informative, coherent, and legible, through premarketing testing by panels of potential users.

Progress and some encouraging projects. Work undertaken by the French regulatory agency on the labelling of drugs for parenteral administration is worthy of note (1). Documents posted on the Agency's website in 2006 show that thorough discussions took place on the importance of drug labelling (1).

The French agency should further assert its authority by advising manufacturers to emphasise important information such as the INN and dose strength, rather than the brand name. The Agency should no longer accept compromises that lead to the adoption of the lowest common denominator. Patients would benefit if the Agency's work were to be rapidly extended to include all types of labelling on small primary packaging items such as ampoules, vials, blister packs, and single-dose eye drops.

Directive 2004/27/EC. European Directive 2004/27/EC includes several concrete and patient-oriented improvements such as more informative labelling, the use of Braille, and obligatory pre-market testing of drug information leaflets by panels of potential users (2).

▶ Delayed implementation. In September 2006 the European Commission published suggested revisions to guidelines on drug labelling and patient leaflets. In particular, manufacturers will be required to pretest their own product leaflets (3). However, this is troubling as it means that once again manufacturers would be both judge and jury.

The European Medicines Agency (EMEA) revised its procedure for analysing drug packaging (4). It recommends that the EMEA examine a relevant example specimen of

outer and primary packaging and package leaflet (and not just a simple mock-up). This would represent a step forward, but only 15 days before the date of market release has been allowed for this analysis. This is not enough time to realistically identify all the risks associated with poorly designed packaging.

In short, drug regulatory agencies still have much to do to ensure that drug packaging is both safe and effective.

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1-Prescrire Rédaction "Étiquetage des médicaments injectables: l'Afssaps se mobilise" Rev Prescrire 2006; 26 (276): 659.

2- Prescrire Editorial Staff "Transposition of Directive 2004/27/EC on human medicines: beware" Prescrire Int 2006; 15 (83): 115.

3- European Commission "Guideline on the readability of the label and the package leaflet of medicinal products for human use - Revision (draft)" September 2006: 23 pages.

4- European Medicines Agency (EMEA) "The revised checking process of mock-ups and specimens of outer/immediate labelling and package leaflets of human medicinal products in the centralised procedure" 22 January 2007: 9 pages.

Street medicines in Niamey (Niger)

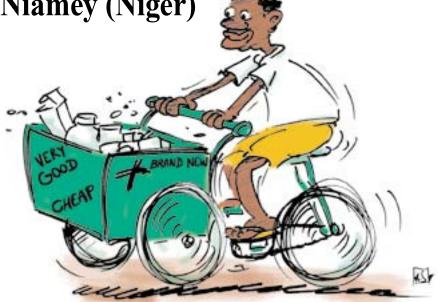
ales of medicinal products on the street, outside of community pharmacies, are extremely widespread in Niger, even though they are totally illegal. And this appears to be a growing phenomenon in Niamey, where it is impossible to walk down the street without seeing someone peddling a range of medicines.

The sellers are generally young men (mean age: 25 years) from rural areas who have no particular skills or education, and who come to Niamey to earn a living. They sell medicines in the same way they as they would sell any other merchandise. The client chooses the product and the exact amount, down to the nearest pill. Clients also ask questions; the advice provided and claimed indications for a given product vary widely from one vendor to another, and naturally also depend on the client's ability to pay. During our survey, we even met a seller calling himself a 'doctor' and peddling his wares in a white coat (a).

This parallel market is supplied by 'wholesalers' openly operating in the various markets in Niamey, or by smaller resellers. A significant proportion of these products appear to be provided by the town's pharmacies, in violation of their basic ethical and legal obligations.

Almost all classes of drugs can be found on the street, including analgesics, antiinflammatory drugs, antiinfectives, anti-ulcer drugs, anxiolytics, antidepressants and antiasthmatics. A given drug may be sold under a multitude of brand names, many of which are unheard of in *bona fide* pharmacies (b).

The street market allows anyone to buy any product for any purpose. It encourages



self-medication and increases the risk of addiction and drug resistance that can lead to treatment failure. This misuse of drugs almost certainly has a negative impact on the health of the poor and poorly informed people who make up the bulk of the street sellers' clientele.

What is the solution? Closing down this illicit market will require all those involved to assume their responsibilities, not only in words but also in deeds. What is needed above all is the establishment of an essential generic drugs policy; easier financial and geographic access to drugs; promotion of traditional medicines; and better management of donated drugs.

It would also be helpful if the different countries in this part of the world, all of which are confronted with the same problem, would pool their resources to study and combat this phenomenon.

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a- The survey was part of my D. Pharm thesis, presented in 2005 at the Faculty of Medicine and Pharmacy of Bamako University and entitled "Les médicaments de la rue à Niamey - Modalités de vente et contrôle de qualité de quelques médicaments anti-infectieux" (Street medicines in Niamey Sales techniques and quality control of some antiinfectives).

b- For example, we found 28 different names for paracetamol, alone or in combination (Docteur Ben°, Novamol Kid°, Sudrek°, Trac°, and Forcold°, among others); 27 names for nonsteroidal antiinflammatory drugs; 10 names for cotrimoxazole; and 17 names for amoxicillin (Climax°, Shree cillin°, Amiro P°, and Geemox°, etc.). No information on the country of manufacture could be found for one-third of the collected drugs (mainly products sold in bulk, without packaging).

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