Safe use of dipyrone
Seguridad en el uso de Dipirona

As relates to the recently published Editorial of the Colombian Journal of Anesthesiology (Revista Colombiana de Anestesiología) entitled “Has the time come to restrict the clinical use of dipyrone?”,1 we agree with the author regarding the regulatory steps that must be adopted on the use not only of dipyrone but of the majority of analgesics sold over the counter. There is a need to put an end to the sale of those drugs without an adequate medical prescription based on the absence of risks for the individual patient and a rational time period for use.2

The safety profile of over-the-counter analgesics is difficult to ascertain; however, it has been found that the possibility of renal3 and gastrointestinal4 side-effects is more than 1%, while in some instances their use has been associated with increased cardiovascular risk5 and severe gastrointestinal bleeding.6 As has been reported by the most widely cited studies on pharmacovigilance and dipyrone, the incidence of agranulocytosis and aplastic anemia ranges between 0.5 and 2.7 cases for every million consumers.7 It appears that the incidence of agranulocytosis depends on genetic factors and previous exposure to the medication, which explains the wide variation between studies in Latino8 and nordic populations.9

The incidence of dipyrone-associated agranulocytosis is so low that it almost always results in one case report, as is this case. However, risks associated with traditional, commonly used analgesics, are sometimes ignored, although many times they may be lethal.

Dipyrone has been shown to be as effective as traditional anti-inflammatory agents for the treatment of postoperative pain,10 renal colic,11 and headaches of all types.12,13 It is important to highlight that before the Food and Drug Administration (FDA) ban, dipyrone was one of the most popular analgesics in the United States market, with more than 40 commercial brands; the veto came at around the time (late 1960s and early 1970s) of the launch to the market of the anti-inflammatory agents still in use today.14 The same thing happened with the blackbox imposed on droperidol early in this century, when setrons came to the market.15 Although we would not want to argue causality, it is quite a regrettable coincidence.

It is highly probable that the close scrutiny to which dipyrone is subjected will not change and that countries that favor its use will continue to do so even as North America continues to refer to it by the derogatory name of “Mexican aspirin.”16

In short, we are aware of the risk of agranulocytosis associated with the use of dipyrone but, unfortunately, other options available in the market have not proven to be more effective and are far from being safer for our population. Finally, the mortality risk associated with the use of dipyrone is, in absolute terms, even lower than that of dying in a collision as we commute to work. Consequently, we should not be deprived of the possibility of the rational use of the drug, just like we should not be deprived of the possibility of driving safely to work.

References


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