

DESCRIPTIVE STUDY OF MARKETED MEDICINES CONTAINING ASPARTAME

Hernández Ramos JA¹, Castro Frontiñán A, González Gómez A, Jiménez León C, Mayo Olveira F García Enríquez V, Huecas Jiménez F, del Palacio García P, Vaquer Ferrer CE, Ferrari Piquero JM

Servicio de Farmacia – Hospital Universitario 12 de Octubre, Madrid (Spain)

¹Contact data: jantonio.hernandez@sjd.es

BACKGROUND AND IMPORTANCE



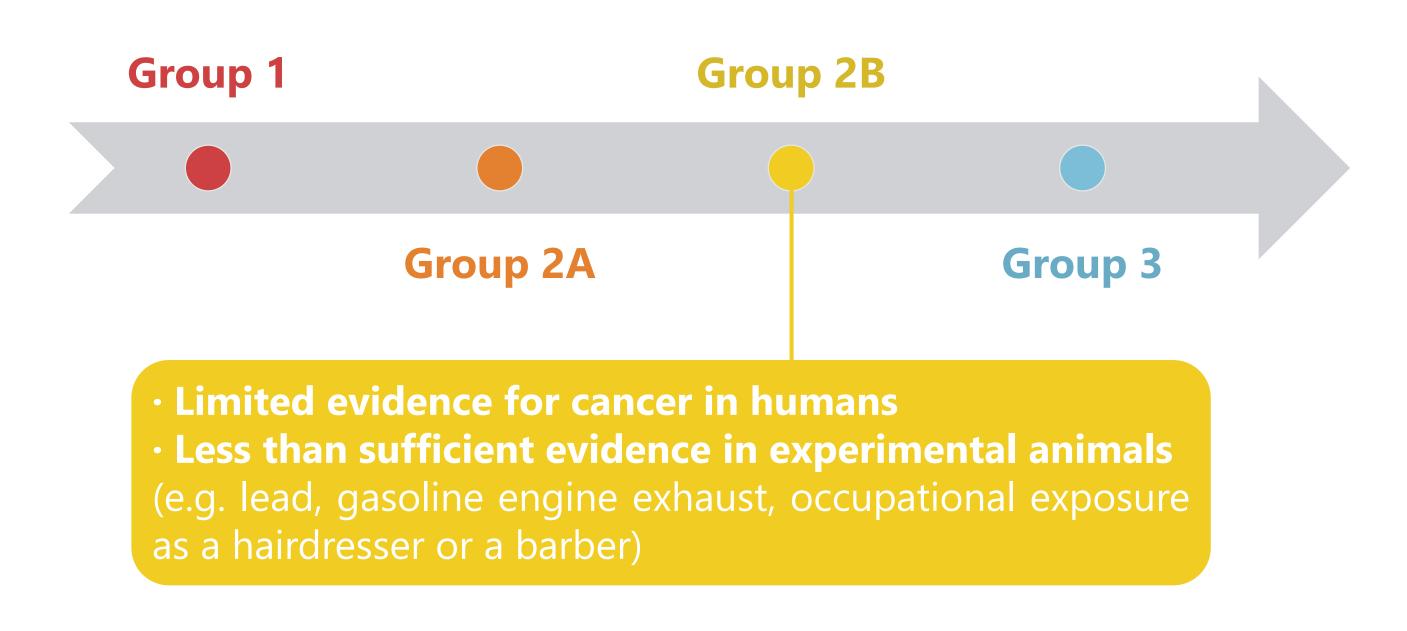
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Aspartame classified as **possibly carcinogenic to humans (Group 2B)**

AIM AND OBJECTIVES

Output Compare the maximum daily intake of aspartame (MDIa) for every oral medicine marketed in our country with the safety threshold

② Analyse the main features of these medicines containing aspartame





Joint WHO/FAO Expert Committee on Food Additives (JECFA): Safety threshold = 40 mg/kg body weight/day MDIa was defined as the daily amount of aspartame taken if using the maximum dose of the corresponding drug according to its label dosage recommendations

MATERIAL AND METHODS

Bibliographic study

Collected variables Medicine name

Active drug

Dosage form

Authorised indication(s)

Miligrams of aspartame per unit (solid dosage forms)

Miligrams of aspartame per mililitre (liquid



dosage forms)

RESULTS

370 medicines declared containing aspartame

222 (60.0%) medication for chronic use

148 (40.0%) acute care drugs

283 (76.5%) fast disintegrating tablets

68 (40.0%) oral solutions/suspensions or powders for oral solution/suspension

19 **(5.1%) other**

Median dose of aspartame was 3.0mg/unit (1.3–8.0) for solid forms and 12.5mg/mL (5.0–30.0) for liquid forms

For the total population of study, median MDIa was 9.0mg per unit or mL (3.0–20.8) and the absolute largest observation was 420.0mg/mL

Specifically, median MDIa for solid forms was 8.0mg/unit (2.1–11.2) and for liquid forms was 75.0mg/mL (30.0–90.0); the difference between these medians was statistically significative (p<0.001)

CONCLUSION AND RELEVANCE

All medicines marketed in our country containing aspartame have a **MDIa remaining under the threshold established by the JECFA for most adult population**. However, since liquid forms contain considerable amounts, their suitability as chronic treatments should be reconsidered for children during medication review, specially if polymedicated.

These results should be **comparable to the rest of European countries**.

