README FILE FOR THE
DATA EXTRACT FROM THE
CFSAN Adverse Event Reporting System (CAERS)

U.S. Food and Drug Administration (FDA)
Center for Food Safety and Applied Nutrition (CFSAN)
Office of Analytics and Outreach (OAO)

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A. INTRODUCTION
You are viewing the README file that accompanies data extracted from the US Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition (CFSAN) Adverse Event Reporting System (CAERS).

CAERS is a post-market surveillance system that collects reports about adverse events involving CFSAN-regulated products. The CAERS database receives both mandatory reports for dietary supplements as well as voluntary reports from both consumers and health care practitioners for dietary supplements, cosmetics, foods, and other products regulated by CFSAN. CAERS receives reports through MedWatch, emails, telephone calls, faxes, letters, and electronic transfers from the Office of Regulatory Affairs (ORA) District Offices’ Field Accomplishments and Compliance Tracking System (FACTS).

This data extract covers reports received by CAERS January 1, 2004 through December 31, 2022. The posted data extracts contain information from adverse event reports associated with CFSAN-regulated products (foods, dietary supplements, and cosmetics). The CAERS extract provides a file of data in xlsx format.

B. CAVEATS
The adverse event reports about a product and the total number of adverse event reports for that product in CAERS only reflect information AS REPORTED and do not represent any conclusion by FDA about whether the product caused the adverse events. For any given report, there is no certainty that a suspected product caused a reaction. Healthcare practitioners, firms, agencies, consumers, and others are encouraged to report suspected reactions; however, the event may have been related to a concurrent
underlying condition or activity or to co-consumption of another product, or it may have simply occurred by chance at that time.

The reports submitted to FDA vary in the quality and reliability of the information provided. Some reports to FDA do not necessarily include all relevant data, such as whether an individual also suffered from other medical conditions or used other products or medications at the same time. Reports may not include accurate or complete contact information for FDA to seek further information about the event, or complainants may choose not to participate in a follow-up investigation. When important information is missing from a report, it is difficult for FDA to fully evaluate whether the product caused the adverse event or simply coincided with it. There also may be duplicate reports in CAERS for the same adverse event because multiple people (such as an injured consumer and a healthcare provider who treated the individual) may have submitted reports. Efforts are made to identify these duplicate reports to reduce over-reporting biases. Because CAERS is constantly updated with new information, the number of reports for a given product and the content of individual reports may change over time.

Disclaimer: Submission of an adverse event report does not constitute an admission that a product caused or contributed to an event. The information in these reports has not been scientifically or otherwise verified as to a cause and effect relationship and cannot be used to estimate incidence (occurrence rate) or to estimate risk.

C. DATA FIELDS
Each CAERS data extract includes the following data fields; empty fields (missing data) indicate that the data are not available because they were not provided in the adverse event report submission:

TAB – PRODUCT-BASED (one row per CASE per PRODUCT view of data)

<table>
<thead>
<tr>
<th>Name of CAERS data field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Date_FDA_First_Received_Case</td>
<td>The date on which the case data was first received by the FDA.</td>
</tr>
<tr>
<td>2. Report_ID</td>
<td>The unique number that identifies each case.</td>
</tr>
<tr>
<td>3. Date_Event</td>
<td>The reported date on which the consumer first experienced the adverse event.</td>
</tr>
<tr>
<td>4. Product_Type</td>
<td>Suspect or concomitant (as reported)</td>
</tr>
<tr>
<td>Name of CAERS data field</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
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</tr>
</tbody>
</table>
4. **Suspect_Products** *

The verbatim Suspect brands and/or product names indicated to have been used by the consumer reported to have experienced the adverse event. An adverse event report may specify consumption of a single product or multiple products. Appended to the end of the product name in brackets is:

- **Product_Code** - The FDA industry code associated with the type of product reported
- **Description** - The FDA industry description associated with the type of product reported.

(ice cream products, cosmetics, coffee/tea)

If there are multiple Suspect Products, they are all listed in this field separated by a comma.

5. **Concomitant_Products** *

The verbatim Concomitant brands and/or product names indicated to have been used by the consumer reported to have experienced the adverse event. An adverse event report may specify consumption of a single product or multiple products. Appended to the end of the product name in brackets is:

- **Product_Code** - The FDA industry code associated with the type of product reported
- **Description** - The FDA industry description associated with the type of product reported.

(ice cream products, cosmetics, coffee/tea)

If there are multiple Concomitant Products, they are all listed in this field separated by a comma.

6. **Patient_Age**

The age of the consumer reported to have experienced the adverse event.

7. **Age_Units**

The time unit (day, week, month, year) of the age provided in the Age at Adverse Event data field for the consumer reported to have experienced the adverse event.

8. **Sex**

The sex of the individual reported to have experienced the adverse event.
9. CASE_MedDRA_Preferred_Terms  The symptom(s) experienced by the injured consumer as specified by the reporter and coded by FDA according to the Medical Data Dictionary for Regulatory Activities (MedDRA).\(^1\) Each adverse event report may indicate one or more symptoms.

10. CASE_Outcome  Outcome(s) of the adverse event experienced by the injured consumer as specified by the reporter; each report may indicate one or more outcomes.

\(^1\) MedDRA® the Medical Dictionary for Regulatory Activities terminology is the international medical terminology developed under the auspices of the International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) and used worldwide to classify adverse event symptoms.

### D. QUESTIONS OR COMMENTS

Questions or comments may be directed to the US Food and Drug Administration, Center for Food Safety and Applied Nutrition, Office of Analytics and Outreach CAERS staff: CAERS@fda.hhs.gov

### E. NOTATIONS ON PRODUCT, PRODUCT CODE AND DESCRIPTION VARIABLES

**PRODUCT:** FDA has made redactions in the Product column based on Exemption 4 of the Freedom of Information Act which protects trade secrets and commercial or financial information. See FDA’s regulations at 21 CFR 20.111(c)(3).