

Importance of Food Consumption Data for Food Decision-Making

GFoRSS Food Regulatory Science Webinar Series
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Robust Food Regulatory Decisions: Based on Risk Analysis

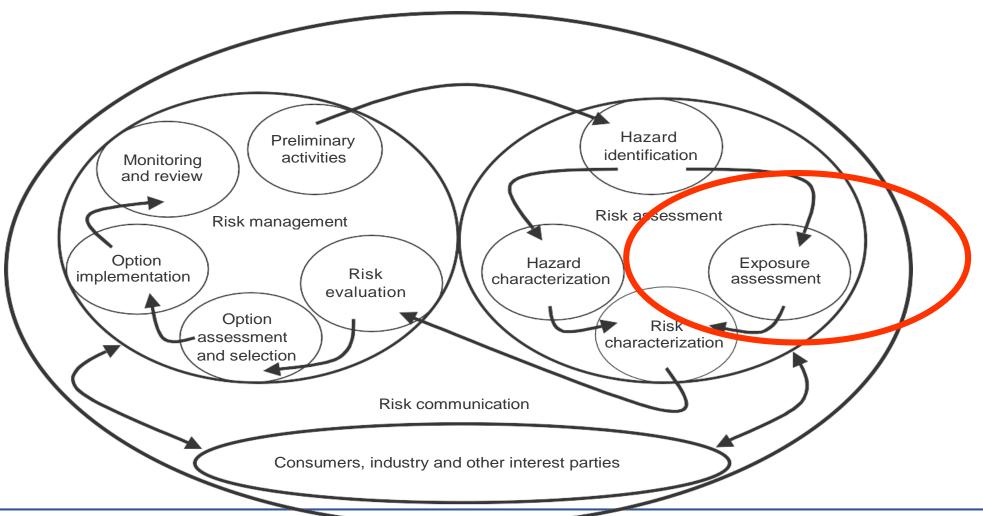
Key Pillars of a Robust Food Control System





Risk Analysis → Robust Food (Regulatory) Decisions

Continued Reliance on Risk Analysis for Food (Regulatory) Decision-Making





Occurrence of Food Chemicals

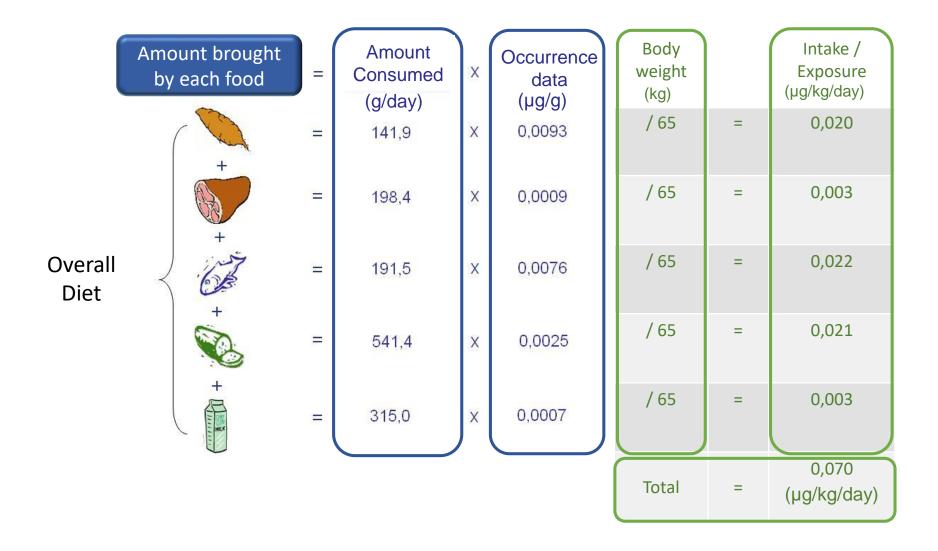




Food consumption



Dietary Intakes/Exposure Assessment



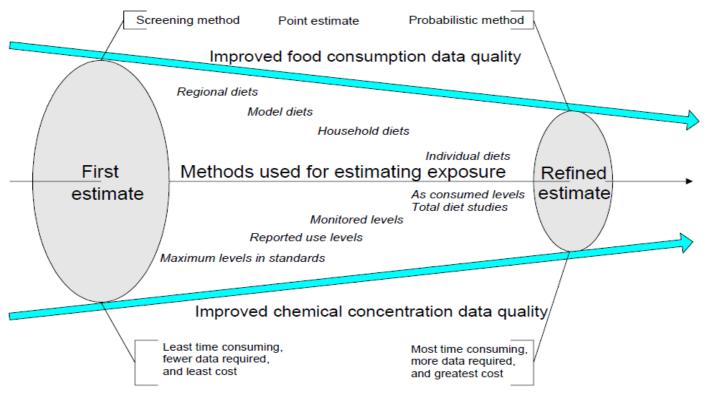


Figure 1 Stepwise approach to obtaining realistic dietary exposure assessments

Note: Data and methods selected from the right-hand side of the diagram are likely to result in a more realistic dietary exposure estimate or "refined estimate"; however, it may not be the "refined estimate" in terms of the "most appropriate" one to suit the purpose of a specific dietary modelling exercise.



Overview: Types of Food Consumption Data – Pros and Cons

Méthods	Data	Consumption Estimates	Food Chain Level	Drawbacks
Population-based methods	 □ Food Balance Sheets ■ Total food available for consumption as a physical residual in the market. ■ Total supply = total demand □ Time scale: year 	☐ Median, mean	☐ Raw, semiprocessed products	 □ No information on distribution of consumption □ No information on individual exposure and subgroups at risk □ High level of uncertainty
Household-based methods: Always available, generated on a regular basis by national institute of statistics	 Purchase or expenditures records Values and quantities of food purchased, own produced and received at household level Large sample size Time scale: weeks 	☐ Mean ☐ High Percentile	☐ Raw, semiprocessed and processed products	 □ No intra-household distribution □ Not individual food intakes □ Food eaten outside home difficult to capture
Individual-based methods	☐ Food record survey ☐ 24-hour recall survey ☐ Food frequency questionnaire ☐ Meal-based diet history survey ☐ Food habit questionnaire ➢ Small sample size ➢ Time scale: days	☐ Mean☐ High percentile	☐ Raw, semiprocessed and processed products	Expensive, time and resource consumingSusceptible of under- or over reporting



Continued Efforts Concerted Action



