

List of Abbreviations

In this guide

[In this guide](#)

1. [Benchmark dose modelling in a UK chemical risk assessment framework - cover](#)
2. [Benchmark Dose Modelling in a UK Chemical Risk Assessment Framework - Executive Summary](#)
3. [Benchmark dose modelling in a UK chemical risk assessment framework - Recommendations](#)
4. [Benchmark dose modelling in a UK chemical risk assessment framework - Use](#)
5. [Benchmark dose modelling in a UK chemical risk assessment framework - Advantages of BMD modelling](#)
6. [Current challenges to the use of benchmark dose modelling in regulatory toxicology](#)
7. [Benchmark dose modelling in a UK chemical risk assessment framework - COT's discussion](#)
8. [Benchmark dose modelling in a UK chemical risk assessment framework - Conclusions](#)
9. [Annex A - Introduction and Background](#)
10. [Annex A- Benchmark dose modelling](#)
11. [Annex A - Selected Previous Publications](#)
12. [Annex A - COT previous discussions](#)
13. [Annex A - NOAEL approach vs BMD approach](#)
14. [Annex A - Modelling the data](#)
15. [Annex A - Fitting the model to the data](#)
16. [Annex A - Bayesian vs frequentist approach](#)
17. [Annex A Case Study \(FSA Computational Fellow\)](#)
18. [Annex A - User experience](#)
19. [Annex A - Conclusions](#)
20. [Annex A - Questions on which the views of the Committee are sought](#)
21. [Annex A - List of Abbreviations](#)
22. [Annex A - Technical terms](#)

23. [Annex A - References](#)

ADI Acceptable Daily Intake

AIC Akaike Information Criterion

BMA Bayesian Model Averaging

BMD Benchmark Dose

BMDL Benchmark Dose lower bound

BMDS Benchmark Dose Software

BMDU Benchmark Dose upper bound

BMR Benchmark response

CED Critical Effect Dose

CEDL Critical Effect Dose lower bound

CEDU Critical Effect Dose upper bound

CES Critical Effect Size

COC The Committee on Carcinogenicity of Chemicals in Food, Consumer Products and the Environment

COM The Committee on Mutagenicity of Chemicals in Food, Consumer Products and the Environment

COT The Committee on the Toxicity of Chemicals in Food, Consumer Products and the Environment

DRM Dose-Response Models

EFSA European Food Safety Authority

FAO Food and Agriculture Organization

FSA Food Standards Agency

HBGV Health Based Guidance Values

IPCS International Programme on Chemical Safety

IRIS Integrated Risk Information System

JECFA Joint FAO/WHO Expert Committee on Food Additives

JMPR Joint FAO/WHO Meeting on Pesticide Residues

LMS Linearised Multistage (model)

LOAEL Lowest Observed Adverse Effect Level

LVM Latent variable model

MCMC Markov Chain Monte Carlo

MLE Maximum-Likelihood Estimation

MOE Margin of Exposure

NOAEL No Observed Adverse Effect Level

OECD Organisation for Economic Co-operation and Development

OGD Other Government Departments

PoD Point of Departure

RfD Reference Dose

RPF Relative Potency Factors

SC Scientific Committee

TEF Toxic Equivalency Factors

UF Uncertainty Factor

US
EPA United States Environmental Protection Agency

US
NTP United States National Toxicology Program

WHO World Health Organisation