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