Per- and polyfluoroalkyl substances: evaluation of thyroid effects using in vivo data (update) - PFAS/2023/04

List of Abbreviations

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This is a paper for discussion. This does not represent the views of the Committee and should not be cited.

¹²⁵I lodine-125

ANCOVA Analysis of covariance

ATSDR Agency for Toxic Substances and Disease Registry

BMD Benchmark dose

CAR Constitutive androstane receptor

CAS Chemical abstracts service

CF	Cross foster
СОТ	Committee on Toxicity
СТ	Litters from treated dams fostered by control dams (pups only exposed postnatally)
DIO1	Type 1 deiodinase, iodothyronine deiodinase type 1
EFSA	European Food Safety Authority
FDA	Food and Drug Administration
EtoH	Ethyl alcohol
FT3	Free triiodothyronine
FT4	Free thyroxine
FTI	Free thyroxine index
GD	Gestational day
GL	Guideline
GLP	Good laboratory practice
HBGV	Health-based guidance value
HPT	Hypothalamic-pituitary-thyroid
i.p.	Intraperitoneal

LD Lactation day

LOAEL Lowest observed adverse effect level

LOEL Lowest observed effect level

ME Malic enzyme

mRNA Messenger ribonucleic acid

MRP2 Multidrug resistance-associated protein

NA Not applicable

NAM New approach methodology

ND Not detected

NIS Sodium-iodide symporter

NOAEL No observed adverse effect level

NR Not reported

NTP National Toxicology Program

OECD Organisation for Economic Co-operation and Development

PFAS Per- and polyfluoroalkyl substances

PFBA Perfluorobutanoate / Perfluorobutanoic acid

PFBS	Perfluorobutane sulfonate / Perfluorobutane sulfonic acid
PFCA	Perfluoroalkyl carboxylic acid
PFDA	Perfluorodecanoate / Perfluorodecanoic acid
PFHpS	Perfluoroheptanesulfonate / Perfluoroheptane sulfonic acid
PFHxA	Perfluorohexanoate / Perfluorohexanoic acid
PFHxDA	Perfluorohexadecanoic acid
PFHxS	Perfluorohexanesulfonate / Perfluorohexanesulfonic acid
PFNA	Perfluorononanoate / Perfluorononanoic acid
PFOA	Perfluorooctanoate / Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonate / Perfluorooctane sulfonic acid
PFPeS	Perfluoropentanesulfonate
PFPS	Perfluoropropanesulfonate

PFTeDA Perfluorotetradecanoate / Perfluorotetradecanoic acid

PND Postnatal day

POD Point of departure

PFSA Perfluorosulfonic acids

PPARα	Peroxisome proliferator-activated receptor α
PXR	Pregnane X receptor
QA	Quality assurance
RNA	Ribonucleic acid
rT3	Reverse triiodothyronine
SD	Standard deviation
SE	Standard error
Т3	Triiodothyronine
T4	Thyroxine
тс	Litters from treated dams fostered by control dams (pups only exposed prenatally
ТТ3	Total triiodothyronine
TT4	Total thyroxine
ТН	Thyroid hormone
TG	Thyroglobulin
Trh	Thyrotropin releasing hormone
TSH	Thyrotropin also thyroid stimulating hormone

TSHR Thyroid stimulating hormone receptor

Litters from treated dams fostered by other treated dams (pups exposed prenatally and postnatally)

TTR Transthyretin

UGT Uridine diphospho-glucuronosyl transferase

USEPA United States Environmental Protection Agency