# PFAS/2023/02 Annex 1

## In this guide

#### In this guide

- 1. Introduction and Background PFAS/2023/02
- 2. PFAS/2023/02 Annex 1
- 3. PFAS/2023/02 Annex 2
- 4. PFAS/2023/02 Annex 3
- 5. PFAS/2023/02 Annex 4
- 6. PFAS/2023/02 Annex 5

## **Reliability scoring**

Should papers undergo reliability scoring or quality assessment to assess reliability prior to inclusion into the narrative/table? The subgroup may wish to consider providing specific guidance on epidemiology, *in vivo* and *in vitro* studies, respectively?

To ensure data used in all reports are of adequate quality all *in vivo* and *in vitro* papers could undergo Klimisch scoring using the ToxRTool (Figure 1). Similarly, epidemiology data could undergo quality assessment e.g. using Newcastle Ottowa Score (NOS) (Figure 2), or Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) assessment (Figure 3), or based on Annex 1 of the SETE report..

Screening papers for reliability could reduce the number of papers used in the assessments and may impact on the subgroup decision-making on presentation of data i.e. if data are presented in a narrative, tabular or graphical format.

Figure 1. Example of ToxRTool.

-	
$\vdash$	
$\vdash$	
-	
$\vdash$	
$\vdash$	
1 /	
$\vdash$	
$\perp$	
	Evaluator's explanations, comments on criteria, etc.
Score	
1	No CAS Numbers, only name
0	
1	They synthesised it themselves
1	
3	
1	
1	
1	
0	
1	
4	
1	
1	
	Score 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1

A screenshot of the ToxRTool. The image shows a form with multiple sections and lines of text and highlighted sections in green. Text varies in colour black, red and blue.

Figure 2. Example of NOS

## NEWCASTLE - OTTAWA QUALITY ASSESSMENT SCALE CASE CONTROL STUDIES

 $\underline{\underline{Note}}$ : A study can be awarded a maximum of one star for each numbered item within the Selection and Exposure categories. A maximum of two stars can be given for Comparability.

Selection
1) Is the case definition adequate?     a) yes, with independent validation ★     b) yes, eg record linkage or based on self reports     c) no description
<ul> <li>2) Representativeness of the cases</li> <li>a) consecutive or obviously representative series of cases</li> <li>b) potential for selection biases or not stated</li> </ul>
3) Selection of Controls a) community controls * b) hospital controls c) no description
4) Definition of Controls a) no history of disease (endpoint) * b) no description of source
Comparability
1) Comparability of cases and controls on the basis of the design or analysis a) study controls for (Select the most important factor.) * b) study controls for any additional factor * (This criteria could be modified to indicate specific control for a second important factor.)
Exposure
1) Ascertainment of exposure  a) secure record (eg surgical records) * b) structured interview where blind to case/control status * c) interview not blinded to case/control status d) written self report or medical record only e) no description
Same method of ascertainment for cases and controls     a) yes      b) no
3) Non-Response rate

An example of NOS, shows a screenshot of a black and white document with multiple headings and numbered sections.

#### Figure 3. Example of STROBE

a) same rate for both groups \*
 b) non respondents described
 c) rate different and no designation

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract
		(b) Provide in the abstract an informative and balanced summary of what was done
		and what was found
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
Objectives	3	State specific objectives, including any prespecified hypotheses
Methods		
Study design	4	Present key elements of study design early in the paper
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,
		exposure, follow-up, and data collection
Participants	6	(a) Cohort study-Give the eligibility criteria, and the sources and methods of
		selection of participants. Describe methods of follow-up
		Case-control study-Give the eligibility criteria, and the sources and methods of
		case ascertainment and control selection. Give the rationale for the choice of cases
		and controls
		Cross-sectional study-Give the eligibility criteria, and the sources and methods of
		selection of participants
		(b) Cohort study-For matched studies, give matching criteria and number of
		exposed and unexposed
		Case-control study-For matched studies, give matching criteria and the number of
		controls per case
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect
		modifiers. Give diagnostic criteria, if applicable
Data sources/	8*	For each variable of interest, give sources of data and details of methods of

Example of Strobe, is a screenshot of a black and white text document. The document has multiple sections with headings, item numbering and notes.