Section 4.8: Undesirable effects

SmPC training presentation

Note: for full information refer to the European Commission’s Guideline on summary of product characteristics (SmPC)

SmPC Advisory Group
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I. General objectives of section 4.8

This section should include **all adverse reactions** from clinical trials, post-authorisation safety studies and spontaneous reporting for which, after **thorough assessment**, a causal relationship between the medicinal product and the adverse event is at least a reasonable possibility, based for example, on their comparative incidence in clinical trials, or on findings from epidemiological studies and/or on an evaluation of causality from individual case reports.

The content of this section should be justified in the clinical overview of the marketing authorisation application based upon a best-evidence assessment of all observed adverse events and all facts relevant to the assessment of causality, severity and frequency.

Guidance regarding clinical overview may be found in the ICH Topic M 4 E.

**Click here for section 2.5.5 of this guideline**

Whole section should be worded in CONCISE AND SPECIFIC LANGUAGE.
II.1 Summary of the safety profile

Provide information on the most serious and/or most frequently occurring adverse reactions. Frequencies to be stated as accurately as possible.

HELPFUL to indicate timing when adverse reaction occurs e.g. information on reactions associated with long-term use, or adverse reactions that are frequent in the beginning of treatment but may disappear with continuation.

Cross-reference to section 4.4 if relevant risk minimisation measures in that section.

Consistency with:
- Important identified risks in Safety Specification of Risk Management Plan
- Table of Adverse Reactions

SmPC examples
1 safety profile
2 safety profile
3 safety profile - cross reference to 4.4
4 safety profile-risk management plan
5 safety profile consistent with table of adverse reactions
Example 1 - safety profile

Most serious and/or frequently occurring adverse reaction. Frequencies stated as accurately as possible

Active substance X 12.5mg capsules

Summary of the safety profile
The most important serious adverse reactions associated with active substance X in patients with solid tumours were pulmonary embolism (1%), thrombocytopenia (1%), tumour haemorrhage (0.9%), febrile neutropenia (0.4%) and hypertension (0.4%).
Example 2-safety profile

Active substance X solution for injection in pre-filled syringe

Summary of the safety profile
The highest incidence of adverse reactions associated with active substance X therapy is related to flu-like syndrome. Flu-like symptoms tend to be most prominent at the initiation of therapy and decrease in frequency with continued treatment. Approximately 70% of patients treated with active substance X can expect to experience the typical interferon flu-like syndrome within the first six months after starting treatment.
Example 3-safety profile

Section 4.8: Undesirable effects

Active substance X 30 MIU/0.5 ml solution for injection or infusion

Summary of the safety profile
Rare pulmonary undesirable effects including interstitial pneumonia, pulmonary oedema and pulmonary infiltrates have been reported in some cases with an outcome of respiratory failure or adult respiratory distress syndrome (ARDS) which may be fatal (see section 4.4).

4.4 Special warnings and precautions for use
Rare pulmonary undesirable effects, in particular interstitial pneumonia, have been reported after GCSF administration. Patients with a recent history of pulmonary infiltrates or pneumonia may be at higher risk. The onset of pulmonary signs such as cough, fever and dyspnoea in association with radiological signs of pulmonary infiltrates and deterioration in pulmonary function may be preliminary signs of Adult Respiratory Distress Syndrome (ARDS).

Active substance X should be discontinued and appropriate treatment given in these cases.
**Example 4-safety profile**

Most serious and/or frequently occurring adverse reaction. Frequencies stated as accurately as possible

Consistency with important identified risks in Safety Specification of Risk Management Plan

Active substance X 30 MIU/0.5 ml solution for injection or infusion

Rare pulmonary undesirable effects including interstitial pneumonia, pulmonary oedema and pulmonary infiltrates have been reported in some cases with an outcome of respiratory failure or adult respiratory distress syndrome (ARDS) which may be fatal (see section 4.4).

<table>
<thead>
<tr>
<th>Safety concern</th>
<th>Proposed pharmacovigilance activities</th>
<th>Proposed risk minimization activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult respiratory distress syndrome (ARDS) (PT: acute respiratory distress syndrome)</td>
<td>Routine pharmacovigilance including presentation of collated data in the corresponding chapter of the PSUR</td>
<td>Routine risk minimisation (labelling) Pulmonary undesirable effects including interstitial pneumonia, pulmonary oedema and pulmonary infiltrates in some cases with an outcome of respiratory failure or adult respiratory distress syndrome (ARDS) which may be fatal are mentioned in section 4.8 of the SmPC. Mention in section 4.4 of the SmPC that patients with a recent history of pulmonary infiltrates or pneumonia may be at higher risk. The onset of pulmonary signs such as cough, fever and dyspnoea in association with radiological signs of pulmonary infiltrates and deterioration in pulmonary function may be preliminary signs of ARDS</td>
</tr>
<tr>
<td>Interstitial pneumonia (PT: interstitial lung disease)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulmonary oedema (PT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulmonary infiltrates (PT: lung infiltrates)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory failure (PT)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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8 Section 4.8: Undesirable effects
Example 5-safety profile

Summary of the safety profile
The most commonly reported adverse reactions are gastrointestinal, including nausea (38%) and vomiting (23%), especially during titration.

Tabulated Summary of Adverse Reactions (Extract)

<table>
<thead>
<tr>
<th>Gastrointestinal disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very common</td>
</tr>
<tr>
<td>Nausea</td>
</tr>
<tr>
<td>Very common</td>
</tr>
<tr>
<td>Vomiting</td>
</tr>
</tbody>
</table>
II.2 Tabulated list of adverse reactions

Introduce table with short paragraph stating source of safety database

Single table (or structured listing) of all adverse reactions with respective frequency category

See next slide for table structure →

Separate tables are acceptable in exceptional cases where adverse profiles markedly differ depending on the use of the product. For example, it might be the case for a product used for different indications (e.g. an oncology and a non oncology indication) or at different posologies

<table>
<thead>
<tr>
<th>Source of Safety Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Data Collection Method</td>
</tr>
<tr>
<td>Frequency Classification</td>
</tr>
</tbody>
</table>

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For more information, see section 6. Introduction to tabulated list.
II.2 Tabulated list of adverse reactions
(Table structure)

Present according to MedDRA system organ classification
A pragmatic approach to the location of terms should be taken in order to make the identification of adverse reactions simpler and clinically appropriate for the reader

Click here for access to the Annex MedDRA of SmPC guideline

**Within each**
- SOC, adverse reactions should be ranked under headings of frequency, most frequent reactions first
- Frequency grouping, adverse reactions should be presented in order of decreasing seriousness

**Frequency Grouping**
- Very common (≥1/10);
- common (≥1/100 to <1/10);
- uncommon (≥1/1,000 to <1/100);
- rare (≥1/10,000 to <1/1,000);
- very rare (<1/10,000);
- Frequency not known (cannot be estimated from the available data)

Where additional details about an adverse reaction are described after the tabulated list, the reaction concerned should be highlighted in the table, for example with an asterisk referring to the detailed description

In some cases for common or very common reactions, and when necessary for clarity of information, frequency figures may be presented
Example 6-introduction to tabulated list

Active substance X 25 mg hard capsules

Tabulated list of adverse reactions

Adverse reactions associated with active substance X obtained from clinical studies and post-marketing surveillance are tabulated below.
II.3 Description of selected adverse reactions

Information characterising individual serious and/or frequently occurring adverse reactions, or those where there have been reports of particularly severe cases

Description of specific adverse reactions which may be useful to prevent, assess or manage the occurrence in clinical practice

FREQUENCY should be described together with for example information on: reversibility, time of onset, severity, duration, mechanism of action (if of clinical relevance), dose relationship, risk factors, differences between different dosage forms

Combination products: a statement at the beginning of this section pointing out which particular adverse reactions are usually attributable to which active substance of the combination, where known
Section 4.8: Undesirable effects

Description of selected adverse reactions

Uncommon cases of severe cerebral oedema and hypermethioninemia were reported within 2 weeks to 6 months of starting active substance X therapy, with complete recovery after treatment discontinuation. High increases in plasma methionine levels in a range from 1,000 to 3,000 μM were noted in these patients. As cerebral oedema has also been reported in patients with hypermethioninemia, secondary hypermethioninemia due to active substance X therapy has been postulated as a possible mechanism of action. For specific recommendations, refer to section 4.4.
Example 8-description

Information characterising individual serious and/or frequently occurring adverse reactions, or those where there have been reports of particularly severe cases

Describe for example: time of onset, severity, mechanism of action, (if of clinical relevance), (FREQUENCY should be described)

A cross reference to Section 4.4 should be made if measures to be taken to avoid specific adverse reactions or actions to be taken if specific reactions occur are mentioned in 4.4

Active substance X mg/ml solution for infusion

**Infusion-related reactions**
Mild or moderate infusion-related reactions are very common comprising symptoms such as fever, chills, dizziness, or dyspnoea that occur in a close temporal relationship mainly to the first infusion.

Severe infusion-related reactions may commonly occur, in rare cases with fatal outcome. They usually develop during or within 1 hour of the initial infusion, but may occur after several hours or with subsequent infusions. Although the underlying mechanism has not been identified, some of these reactions may be anaphylactoid/anaphylactic in nature and may include symptoms such as bronchospasm, urticaria, increase or decrease in blood pressure, loss of consciousness or shock. In rare cases, angina pectoris, myocardial infarction or cardiac arrest have been observed.

For clinical management of infusion-related reactions, see section 4.4.
Example 9-description

Information characterising individual serious and/or frequently occurring adverse reactions, or those where there have been reports of particularly severe cases

A cross reference to Section 4.4 should be made if measures to be taken to avoid specific adverse reactions or actions to be taken if specific reactions occur are mentioned in 4.4

Active substance X 1 mg/24 h transdermal patch

**Description of selected adverse reactions**

**Sudden onset of sleep and somnolence**

Active substance X has been associated with somnolence including excessive daytime somnolence and sudden sleep onset episodes. In isolated cases “sudden onset of sleep” occurred while driving and resulted in motor vehicle accidents. See also section 4.4 and 4.7
Example 10-description

Active substance X 30 mg hard gastro-resistant

*Description of selected adverse reactions*
Discontinuation of active substance X (particularly when abrupt) commonly leads to withdrawal symptoms. Dizziness, sensory disturbances (including paraesthesia), sleep disturbances (including insomnia and intense dreams), fatigue, agitation or anxiety, nausea and/or, headache, irritability, diarrhoea, hyperhydrosis and vertigo are the most commonly reported reactions. Generally, for SSRIs and SNRIs, these events are mild to moderate and self-limiting, however, in some patients they may be severe and/or prolonged. It is therefore advised that when active substance X treatment is no longer required, gradual discontinuation by dose tapering should be carried out (see sections 4.2 and 4.4).
Active substance X 50 mg powder for solution for infusion

**Tetracycline Class Effects:**
Glycylcycline class antibiotics are structurally similar to tetracycline class antibiotics. Tetracycline class adverse reactions may include photosensitivity, pseudotumour cerebri, pancreatitis, and anti anabolic action which has led to increased BUN, azotaemia, acidosis, and hyperphosphataemia (see section 4.4).
**Example 12**

A cross reference to section 4.4 should be made if measures to be taken to avoid specific adverse reactions or actions to be taken if specific reactions occur are mentioned in 4.4

Any adverse reactions specific to excipients or residues from the manufacturing process

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**Active substance X suspension for injection in pre-filled syringe**

This medicinal product contains thiomersal (an organomercuric compound) as a preservative and therefore, it is possible that sensitisation reactions may occur (see section 4.4).
II.4 Paediatric population

The subsection should always be included (unless irrelevant) and describe:

- The extent and age characteristics of the safety database (e.g. from clinical trials or pharmacovigilance data)

- Any clinically relevant differences (i.e. in nature, frequency, seriousness or reversibility of adverse reactions) between the safety profiles in adult and in paediatric populations or in any relevant age groups

Uncertainties due to limited experience should be stated

If the observed safety profile is similar in children and adults this could be stated: e.g. “Frequency, type and severity of adverse reactions in children are <expected> to be the same as in adults”.

Differences should be presented by age group. A separate table listing such adverse reactions by frequency can be added stratified by relevant age groups if appropriate.

If some paediatric adverse reactions are considered common (≥1% and <10%), or very common (≥10%) the frequency needs to be provided in parentheses.

If relevant, symptoms of neonatal withdrawal should be listed in a separate paragraph with cross-reference with 4.6
Example 13-pediatric

If the observed safety profile is similar in children and adults this could be stated

The extent and age characteristics of the safety database (e.g. from clinical trials or pharmacovigilance data)

Active substance X 75 mg film-coated tablets

**Paediatric population**

The safety assessment in children and adolescents is based on the safety data from the Phase II trial DELPHI in which 80 ART experienced HIV-1 infected paediatric patients aged from 6 to 17 years and weighing at least 20 kg received active substance X with low dose ritonavir in combination with other antiretroviral agents (see section 5.1). Overall, the safety profile in these 80 children and adolescents was similar to that observed in the adult population.
Example 14—paediatric

Active substance X 1 million IU/ml powder and solvent for solution for injection

Major difference with safety profile in adults
Extent and age characteristics of safety database
Cross reference to 4.4

Children and adolescent population

Chronic Hepatitis C - Combination therapy with Y

In clinical trials of 118 children and adolescents (3 to 16 years of age), 6% discontinued therapy due to adverse reactions. In general, the adverse reaction profile in the limited children and adolescent population studied was similar to that observed in adults, although there is a paediatric-specific concern regarding growth inhibition as decrease in height percentile (mean percentile decrease of 9 percentile) and weight percentile (mean percentile decrease of 13 percentile) were observed during treatment. Within the 5 years follow-up post-treatment period, the children had a mean height of 44th percentile, which was below the median of the normative population and less than their mean baseline height (48th percentile). Twenty (21%) of 97 children had a >15 percentile decrease in height percentile, of whom 10 of the 20 children had a >30 percentile decrease in their height percentile from the start of treatment to the end of long-term follow-up (up to 5 years).

During combination therapy for up to 48 weeks with X and Y, growth inhibition is observed, the reversibility of which is uncertain. In particular, decrease in mean height percentile from baseline to the end of the long-term follow-up was most prominent in prepubertal age children (see section 4.4).

Furthermore, suicidal ideation or attempts were reported more frequently compared to adult patients (2.4% vs 1%) during treatment and during the 6 month follow-up after treatment. As in adult patients, children and adolescents also experienced other psychiatric adverse events (e.g., depression, emotional lability, and somnolence) (see section 4.4). In addition, injection site disorders, pyrexia, anorexia, vomiting, and emotional lability occurred more frequently in children and adolescents compared to adult patients. Dose modifications were required in 30% of patients, most commonly for anaemia and neutropaenia.
Any **clinically relevant differences** (i.e. in nature, frequency, seriousness or reversibility of adverse reactions) between the safety profiles in adult and in the paediatric population, or in any relevant age groups, presented by age group

The extent and age characteristics of the safety database (e.g. from clinical trials or pharmacovigilance data)

**Active substance X 250 mg film-coated tablets**

**Paediatric population**

The adverse event profile of active substance X is generally similar across age groups and across the approved epilepsy indications. Safety results in paediatric patients in placebo-controlled clinical studies were consistent with the safety profile of active substance X in adults except for behavioural and psychiatric adverse reactions which were more common in children than in adults. In children and adolescents aged 4 to 16 years, vomiting (very common, 11.2%), agitation (common, 3.4%), mood swings (common, 2.1%), affect lability (common, 1.7%), aggression (common, 8.2%), abnormal behaviour (common, 5.6%), and lethargy (common, 3.9%) were reported more frequently than in other age ranges or in the overall safety profile. In infants and children aged 1 month to less than 4 years, irritability (very common, 11.7%) and coordination abnormal (common, 3.3%) were reported more frequently than in other age groups or in the overall safety profile.
Example 16-paediatric

If relevant, symptoms of neonatal withdrawal should be listed in a separate paragraph with cross reference to 4.6

Active substance X 2 mg/0.5 mg sublingual tablets

A neonatal abstinence syndrome has been reported among newborns of women who have received active substance X during pregnancy. The syndrome may be milder and more protracted than that from short acting full μ-opioid agonists. The nature of the syndrome may vary depending upon the mother’s drug use history (see section 4.6).
II.5 Other special populations

Any clinically relevant differences (i.e. in nature, frequency, seriousness or reversibility of adverse reactions, or need for monitoring) specifically observed in other special populations

Special populations such as:

Elderly patients
Patients with renal or hepatic impairment
Patients with other disease or specific genotypes

Any clinically relevant differences (i.e. in nature, frequency, seriousness or reversibility of adverse reactions, or need for monitoring) specifically observed in other special populations

Cross-reference to other sections such as 4.3, 4.4 or 4.5 may be added as appropriate

Adverse reactions may also be related to genetically determined product metabolism. Subjects or patients deficient in the specific enzyme may experience a different rate or severity of adverse reactions. This should be mentioned and where relevant correlated with data from clinical trials.
Example 17-other special populations

Active substance X 5 mg film-coated tablets

Older population
At the 20mg dose, elderly (≥ 65 years old) patients had higher frequencies of headaches (16.2% versus 11.8%) and dizziness (3.7% versus 0.7%) than younger patients (< 65 years old).
**Example 18-other special populations**

Active substance X 375 mg prolonged-release tablets

**Renal impairment**

In patients with mild or moderate renal impairment (creatinine clearance 30–80 ml/min) compared to those with normal renal function (creatinine clearance > 80 ml/min), the most commonly reported events and their placebo-corrected frequencies included: constipation (8% versus 4%), dizziness (7% versus 5%), and nausea (4% versus 2%).
Example 19-other populations

Active substance X 0.44 mg/ml solution for injection

Patients with hepatic impairment

Patients with ALT or AST > 3 x ULN experienced a higher incidence of Grade 4 neutropenia and febrile neutropenia. Although data are limited, patients with bilirubin > 1.5 x ULN also have a higher incidence of Grade 4 neutropenia and febrile neutropenia (see also sections 4.2 and 5.2).
Example 20-other populations

Active substance X 150mg hard capsules

Patients co-infected with hepatitis B and/or hepatitis C virus

Among 1,151 patients receiving active substance X 400 mg once daily, 177 patients were co-infected with chronic hepatitis B or C, and among 655 patients receiving active substance X 300 mg once daily with active substance Y 100 mg once daily, 97 patients were co-infected with chronic hepatitis B or C. Co-infected patients were more likely to have baseline hepatic transaminase elevations than those without chronic viral hepatitis. No differences in frequency of bilirubin elevations were observed between these patients and those without viral hepatitis. The frequency of treatment emergent hepatitis or transaminase elevations in co-infected patients was comparable between active substance X and comparator regimens (see section 4.4).
Example 21- other populations

Active substance X 375 mg prolonged-release tablets

e. Other special populations

Low weight

In general, the type and frequency of adverse reactions reported in patients with low body weight (60 kg) were similar to those of patients with higher weight (> 60 kg); however, the placebo corrected frequencies of the following common adverse reactions were higher in low body weight than heavier patients: nausea (14% versus 2%), vomiting (6% versus 1%), and hypotension (4% versus 2%).
III.1 Guidance on the estimation of frequency of adverse reactions

Click here for link to ‘Further guidance on the estimation of frequency of adverse reactions’ of the SmPC guideline

Points to consider on application with 1. Meta-analyses; 2. One pivotal study section II.4 provide some guidance on pooled analyses of safety endpoints
III.2 Information not to be included in section 4.8

- Adverse events, without at least a suspected causal relationship

- Comparative frequency statements other than those described in the subsection entitled ‘Further guidance on the estimation of frequency of adverse reactions’

- Statements of general good tolerability such as “well tolerated”

- Claims regarding absence of specific adverse reactions
IV. FAQs

1. Which information should be included in the summary of safety profile?

2. What is the difference between an adverse event and an adverse reaction? Which information should be included in the SmPC?

3. When is it acceptable to have two tables of adverse reactions?

4. Should adverse reactions from off-label use be included in section 4.8?

5. Can the tabulated list of adverse reactions be presented as comparative table of frequency between the product and the comparator?

6. Can adverse reactions not observed in clinical trials at the time of initial marketing authorisation be included in section 4.8?

7. Should adverse reactions derived from spontaneous reporting be included in the single tabulated list if adverse reactions?
1. Which information should be included in the summary of safety profile?

- The summary of safety profile should provide information on the most serious and/or most frequent occurring adverse reactions. It should not be a summary of the safety database. Brief information on the source of the safety database can be provided to introduce the tabulated list of adverse reactions.
2. What is the difference between an adverse event and an adverse reaction? Which information should be included in the SmPC?

- An adverse event is any untoward medical occurrence in a patient administered a drug and which does not necessarily have to have a casual relationship with the treatment. An adverse reaction is a response to a drug which is noxious and unintended and which occurs at doses normally used in man.

- It is critical to include all adverse reactions and not adverse events in the SmPC and it is a matter of thorough assessment to classify an adverse event as an adverse reaction taking into account all relevant clinical trials’ or post-marketing data. There is not a single simple mathematical tool to decide on the causal relationship between an adverse event and a product. For example, a low frequency is not a justification for deletion of an adverse reaction. Further information can be found in “Section 2.5.5 Safety overview’ in the ICH guideline M4 E”

- In summary, inclusion or deletion of information in section 4.8 is based on a thorough assessment of whether or not a casual relationship between the product and each individual adverse event is at least a reasonable possibility.
3. When is it acceptable to have two tables of adverse reactions?

- The purpose of a single table of adverse reactions with their respective frequency is to integrate comprehensive data from different sources to provide clear and informative data to healthcare professionals.

- Only in exceptional cases can two tables of adverse reactions be acceptable: when the adverse reaction profiles markedly differ depending on the use of the product e.g. different indications (e.g. an oncology and a non-oncology indication) or at different posologies.
4. Should adverse reactions from off-label use be included in section 4.8?

- The SmPC is the basis of information for HCP on how to use the medicinal product safely and effectively in the approved indication. Information on non-approved use is not expected in the SmPC (with the exception of data in the paediatric population). However, if HCP need to be warned of specific adverse reactions due to an off label use of the medicinal product, this information should be included as a warning in section 4.4 “Special warnings and precautions for use” of the SmPC.
5. Can the tabulated list of adverse reactions be presented as comparative table of frequency between the product and the comparator?

- The purpose of the single table is to be informative to healthcare professionals by integrating comprehensive data from different sources and listing all adverse reactions with their frequency category (from very common to very rare). Presenting the adverse reactions in a comparative table is useful for assessment purpose and is better presented in the EPAR. Specific frequency information on adverse reactions requiring particular attention can be presented in other parts of section 4.8, i.e. summary of safety profile (for the most serious or most frequent adverse reactions) or in the description of selected adverse reactions which could also describe other relevant information e.g. the severity of the reaction.
6. Can adverse reactions not observed in clinical trials be included in section 4.8 at the time of initial marketing authorisation?

- Yes. The SmPC guideline states that subsection “Description of selected adverse reactions” should inform on adverse reactions with very low frequency or with delayed onset of symptoms which may not have been observed in relation to the product, but which are considered to be related to the same therapeutic, chemical or pharmacological class e.g. anaphylactoid reactions in vaccines. The fact that this is a class attribution should be mentioned.
7. Should adverse reactions derived from spontaneous reporting be included in the single tabulated list of adverse reactions? (1/2)

- The SmPC guideline states that a single table should list all adverse reactions with their respective frequency category. The table should be introduced with a short paragraph stating the source of the safety database (e.g. clinical trials, post-authorisation safety studies, spontaneous reporting). The purpose is to be informative to healthcare professionals by integrating comprehensive data from different sources. Therefore, it is essential to adequately combine data (new and old) from different sources in a single table. The guideline provides some guidance to facilitate these recommendations.

- See next slide
7. Should adverse reactions derived from spontaneous reporting be included in the single tabulated list of adverse reactions? (2/2)

- At the time of initial marketing authorisation, most of the safety data are combined and often come from pooled analysis across suitable studies, which is usually considered to provide the best estimate of frequency.

- After the initial authorisation, where new data become available, a distinction should be made between new adverse reactions and adverse reactions already included in the SmPC:
  - If an adverse reaction is already included, the SmPC guideline states “If the choice of the frequency category is based on different sources, the category representing the highest frequency should be chosen unless a more specific method has been applied.”
  - If an adverse reaction is new, it should be included after estimation of its frequency. An option of estimation frequency provided by the guideline is the $3/X$ methodology; if the adverse reaction was not observed in clinical trials, then the upper limit of the 95% confidence interval is not higher than $3/X$, with $X$ representing the total sample size summed up across all relevant clinical trials and studies (e.g. those with a follow-up long enough to detect the adverse reaction).
Thank you for consulting this training presentation

SmPC Advisory Group

Please note the presentation includes examples that may have been modified to best illustrate the related principle