



Main title



## <u>Establishment of Cumulative Assessment Groups - Process</u>

- 1. **Identification** of **specific effects** which qualify for cumulative risk assessment:
- Exclusion of local effects
- Exclusion of non adverse effects
- Exclusion of effect not relevant to humans
- Evaluation of the unambiguous nature of the effect
- Exclusion of non specific effects
- 2. **Characterization** of the specific effects = determination and listing of the appropriate toxicological observations (indicators)

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## Establishment of Cumulative Assessment Groups - Application

Effects on the nervous and thyroid system 287 chemical active substances were screened

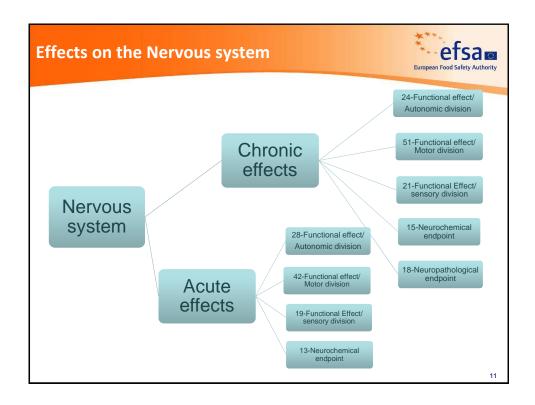


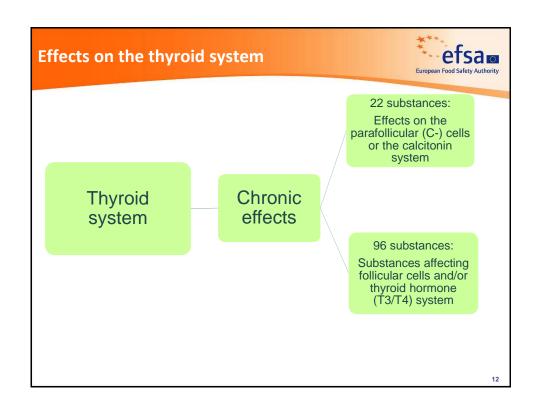
Nervous system (65 substances with specific effects)



Thyroid system (101 substances with specific effects)

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## <u>Establishment of Cumulative Assessment Groups – No exposure consideration</u>

CAGs are established on the basis of the toxicological profile only.

The level of exposure was not considered for different reasons:

- Exposure is highly variable and depends of the use pattern
- Non-dietary exposure
- RMs may wish to apply different levels of protection to different types of effects

However : Cumulative  $\underline{risks}$  are likely to be driven by a few pesticides/commodity combinations.

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## $\underline{\textbf{Establishment of Cumulative Assessment Groups - One}} \\ \underline{\textbf{example}}$

Effect on the follicular cells and T3/T4 system

Indicators:

- ☐ Changes in T3/T4 circulating levels
- ☐ Follicular cells hypertrophy
- □ Follicular cells hyperplasia
- ☐ Follicular cells neoplasia
- ☐ Increased relative thyroid weight

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