

Stürer A (1), Begemann K (2), Binscheck T (3), Eckart D (4), Lüde S (1), Reinecke HJ (4), Sauer O (4), Seidel C (5), Stedtler U (6), Wagner R (7), Weilemann I (4), Zeimentz H (4), Hüller G (8).

Objective

- A categorization system of agents is indispensable for poisons centres (PCs) to work efficiently (e.g. for annual reports).
- Within the Toxicological Documentation and Information Network (TDI - www.tdi-network.org) a first version of a common categorization system was developed from 1999 until 2006 by German PCs and the German Federal Institute for Risk Assessment (BfR) (1).
- As a final part of this project the categorization system was applied to a collection of 137,689 human exposures of 2005 (7 German PCs) (2).
- Since several years the Society of Clinical Toxicology (*Gesellschaft für Klinische Toxikologie*, GfKT – www.klinitox.de) fosters the harmonisation of poisons centres daily work.

Aims

- Report about the current use of the system and the release of the new version 2.0.

Methods

- On completion of the TDI project the Society of Clinical Toxicology initiated a task-force for the maintenance and further development of this system in 2007 [Figure 1].
- Within 4 meetings until October 2008 the system was revised by the working group.



Results

- The new version of the TDI categorization system (2.0, www.klinitox.de/142.0.html) is available since October 2008 and includes 18,241 hierarchically structured categories (new: 3037 taxonomically categorized mushrooms) [Table 1].
- The Federal Office of Consumer Protection and Food Safety (BVL) already uses the COLIPA based cosmetic categories for the classification of about 200,000 products prior to the transfer into the PCs.
- In 2/11 PCs the system is completely integrated into the local database.
- In 9/11 PCs the TDI classification exists in a parallel manner to the local system and interfaces were established recently.
- Currently the system is used within a multicentre study for the harmonized selection of domestic cleaning products.

Conclusion

- The usability of the TDI Categorization system was proven on various occasions.
- All GfKT associated PCs are able to use the system, therefore harmonized multicentre data collections are feasible.
- A task-force for a continuous development of the system is established.
- Further harmonization with other European PCs is possible and desired.

L1	L2	L3	CATEGORY	% L1	% L2	% L3	STATE	PC / EXPERT RESPONSIBLE
E	B		Products	83.4			ready	GfKT WG-V (c/o Stürer)
E	B	B	Products of daily Demand		8.6		ready	GfKT WG-V (c/o Stürer)
E	B	B	Objects of daily Demand (except Cleaning and Room Air Conditioning Agents)			0.8	ready	Erfurt (Hüller)
E	B	K	Cosmetics			4.0	ready	COLIPA compatible Mainz (Zeimentz)
E	B	L	Foods and Food-Additives			2.2	ready	Lüde (Zürich)
E	B	T	Tobacco Products			1.6	ready	Erfurt (Hüller)
E	B	Z	Products of daily Demand – unclassified			0.0	ready	Erfurt (Hüller)
E	C		Chemical / Physicochemical Products		18.3		ready	GfKT WG-V (c/o Stürer)
E	C	B	Construction Materials, Sealants and Adhesives			0.6	ready	Erfurt (Hüller)
E	C	F	Paints, Varnish and Dyers			1.9	ready	Erfurt (Hüller)
E	C	H	Illuminant Fuels, Inflammable Matters, Scents, Decorations and similar Agents			0.9	ready	Erfurt (Hüller)
E	C	R	Cleaning Agents, Detergents and Care Products			9.9	ready	Erfurt (Hüller)
E	C	T	Chemicals for Technical Tools, Processes and Products			0.9	ready	Erfurt (Hüller)
E	C	V	Products for Plants and Animals			1.0	ready	Erfurt (Hüller)
E	C	Z	Chemical / Physicochemical Articles - unclassified			3.1	ready	Erfurt (Hüller)
E	D		Drugs of Abuse			1.1	ready	Bonn (Seidel)
E	H		Remedies		50.2		ready	GfKT WG-V (c/o Stürer)
E	H	A	Human Drugs			49.4	ready	WHO (ATC-Code) Göttingen (Wagner)
E	H	M	Medical Products			0.5	ready	Göttingen (Wagner)
E	H	T	Veterinary Drugs			0.2	ready	Göttingen (Wagner)
E	H	Z	Remedies - unclassified			0.0	ready	Göttingen (Wagner)
E	S		Preservatives and Pesticides against Microbes and Parasites			2.5	ready	Erfurt (Hüller)
E	S	B	Biocide Material Protection, Hygiene Agents and Desinfectants				ready	Erfurt (Hüller)
E	S	P	Pesticides and Exterminator				ready	Erfurt (Hüller)
E	S	Z	Preservatives and Pesticides against Microbes and Parasites - unclassified				ready	Erfurt (Hüller)
E	W		Weapons and pyrotechnic Products			0.1	ready	Erfurt (Hüller)
E	Z		Products - unclassified			1.9	ready	GfKT WG-V (c/o Stürer)
E	Z	G	Basic Materials			1.6	in progress	GfKT WG-V (c/o Stürer)
N			Natural Environment		16.2		partly ready	GfKT WG-V (c/o Stürer)
N	F		Fungi			1.9	in progress	Mainz (Eckart)
N	M		Microbes			0.1	ready	GfKT WG-V (c/o Stürer)
N	P		Plants			13.0	ready	Mainz (Weilemann)
N	T		Animals			1.2	in progress	Göttingen (Dese)
N	Z		Natural Environment - miscellaneous / unclassified			0.0	ready	GfKT WG-V (c/o Stürer)
R			Remnants of Civilisation, Inherited Waste		0.2		ready	Erfurt (Hüller)
U			Unclassified / Unkonwn		0.2		ready	GfKT WG-V (c/o Stürer)
U	U		Unkonwn Kategorie			1.9	ready	GfKT WG-V (c/o Stürer)
U	Z		Unkonwn Agent			0.1	ready	GfKT WG-V (c/o Stürer)

Table 1: First three levels of the TDI-CSA – percentage of human exposure in 2005 in German PCs – State of development – PC / expert responsible

References

- Stürer A et al. TDI-Project : A harmonized category system for products in poisons centres (PC). Clin Toxicol 2003;41:498.
- Stürer A et al. Harmonization of categorization systems for agents: first data from German poisons centres. Clin Toxicol 2007;45:337.