



International ToxIC Registry of Poisoned Patients: Initial Glimpses from Tox Services in Russia, Thailand, and Mexico

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Background:

The international toxicology community has limited communication and collaboration mechanisms. We developed an international registry of poisoned patients to further collaboration, education, and research.

This registry is parallel to the current American College of Medical Toxicology (ACMT) Toxicology Investigator's Consortium (ToxIC) Registry, an internet-based multicenter toxicosurveillance network active in the USA since 2010.

Methods:

Identification of international colleagues with an interest or need in developing a registry of poisoned patients.

Web-based data entry form was developed to collect clinical information from bedside consultations

All entries were coded locally

Email and videoconference encounters were provided to address logistical issues.

Results:

The International ToxIC Registry has been active since 2/1/2013. Data are current as of 2/28/2014.

ToxIC Investigators in Russia, Thailand, and Mexico enrolled 399 cases (250 males) involving over 40 agents.

ToxIC Enrollment Site	Cases
Ekaterinburg, Russia	314
Bangkok, Thailand	78
Mexico City, Mexico	7
Grand Total	399

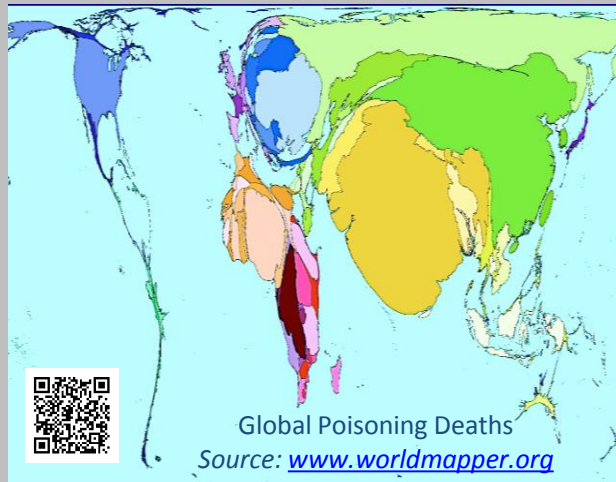
Patient Age	Count
< 2 years	3
13-18	90
19-65	275
2-6	2
66-89	22
7-12	7
Grand Total	399

Decontamination	Count
Activated Charcoal	15
Gastric Lavage	44
Whole Bowel Irrigation	7
Topical Irrigation	2
Grand Total	53

Top Exposures	Count
MDPV (Methylenedioxy-pyrovalerone)	71
Ethanol	32
Acetic acid	15
Carbon monoxide	13
Tramadol	10
Acetone	9
Clozapine	9
Phenobarbital	9
Acetaminophen	14
Carbamazepine	7
Cannabis/ Cannabinoids	6
Amitriptyline	5
Chlorpheniramine	5
Corrosive agent	5
Green pit viper	5
Amphetamines	4
Baclofen	4
Centipede Envenomation	4
Heroin	4

Toxidromes	Count
Sedative-Hypnotic	31
Sympathomimetic Syndrome	30
Anticholinergic	24
Serotonin Syndrome	8
Opioid	5
Overlap Syndromes (eg. MCS, Chronic Fatigue, fibromyalgia)	3
Cholinergic	2
Anticonvulsant Hypersensitivity	1
Fume Fever	1
NMS	1
Sympatholytic Syndrome	1
Washout Syndrome	1

Treatments Given	Count
Benzodiazepines	90
Antipsychotics	31
Vasopressors	4
Paralytics	6
Glucose > 5%	8
Anticonvulsants	6
Vasopressors	3
Antiarrhythmics	2
Bronchodilators	1
Antihypertensive	1
Opioids	1
Steroids	1



Conclusions:

- An international, web-based toxicology registry is feasible and creates opportunities for global collaborative toxicology research.
- Drugs of abuse, prescription pharmaceuticals and ethanol are well represented in global toxicology practice settings.
- The increased use of gastric lavage over charcoal represents a trend which markedly differs from the West, and warrants further research.