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303. The Practice of Medical Toxicology in the US

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Background: The ACMT's ToxIC Registry is a national database early in its existence, consisting of data on cases seen at the bedside by toxicologists. It began with four centers on January 15, 2010 & was at 11 centers by March 1, 2010. The registry will provide a source for research, education, healthcare, and public health.

Objective: Describe the initial cases entered into the ToxIC registry. **Methods:** Registry data is uploaded to a secure on-line database. The data was downloaded into an Excel spreadsheet and then was queried to establish a description of the initial patient data. We summarize data regarding the location and type of encounter, agents involved, clinical syndromes, and treatments provided.

Results: As of March 27, 2010, there were 268 patients in the ToxIC registry; the tables reflect this population.

Conclusion: The most common population seen at bedside by medical toxicologists are pts in hospitals who OD'd on alcohols or analgesics & who have diverse clinical syndromes.

Table for Abstract 303

Initial encounter (267)

ED – 120 (45%)
ICU – 66 (25%)
Non-Icu Inp – 67 (25%)
Occ. eval – 7 (3%)
Surveillance – 2 (1%)
Unknown – 5 (2%)

Encounter type (275)

Medication overdose, intentional – 146 (50%)
Medication overdose unintentional – 54 (18%)
Drug abuse – 21 (7%)
Chemical exposure intentional – 6 (2%)
Chemical exposure unintentional – 10 (3%)
ADR – 15 (5%)
Withdrawal – 6 (2%)
Organ system dysfunction 10 (3%)
Interpretation of lab data – 5 (2%)
Environmental evaluation – 2 (1%)

Clinical syndromes – 397

Abd pain N/V – 31 (8%)
Acute kidney Injury – 13 (3%)
Hypotension – 27 (6%)
Metabolic acidosis – 18 (5%)
Rhabdomyolysis/muscle injury – 6 (2%)
Hepatotoxicity – 20 (5%)
AMS – 63 (16%)
CNS depression – 30 (8%)
Resp. depression/failure – 30 (8%)
Hyperreflexia/tremor – 6 (1%)
Psychosis/delirium/agitation – 34 (9%)

Tachycardia – 21 (5%)
Seizure – 7 (2%)
Bradycardia – 13 (3%)
Hypoglycemia – 2 (1%)
Asymptomatic – 19 (5%)
Dystonia – 4 (1%)
Serotonin syndrome – 4 (1%)
NMS – 1 (1%)
Pneumonitis – 7 (2%)
Other – 41 (10%)

Agent class – 362

Alcohols – 40 (12%)
Analgesic + opioid combo – 22 (7%)
Analgesics – 52 (15%)
Sedative hypnotics – 34 (10%)
Opioids – 28 (8%)
Antidepressants – 38 (11%)
Antipsychotics – 29 (9%)
Cardiovascular – 31 (9%)
Antihistamines – 10 (3%)
Analgesic + antihistamine – 8 (2%)
Metals – 7 (2%)
Psychoactives – 4 (1%)
Diabetic medications – 4 (1%)
Sympathomimetics – 8 (2%)
Anticonvulsants – 5 (1%)
Gases – cellular asphyxiants – 2 (1%)
Hydrocarbons – 2 (1%)
Lithium – 4 (1%)
Others – 34 (9%)

