

Current Trends in Detectable Drugs

Peter Bowron
Toxicology Unit - PaLMS

Can you find out
what drugs the
patient has taken?

Drug Analysis

- Rapid Tests
- AS 4308
- Routine Clinical
- Broad Based

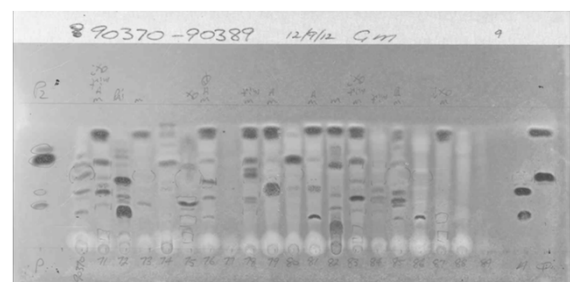
PaLMS Testing

- Approximately 130,000
- Half "Targeted"
- Half "Broad testing"

Techniques

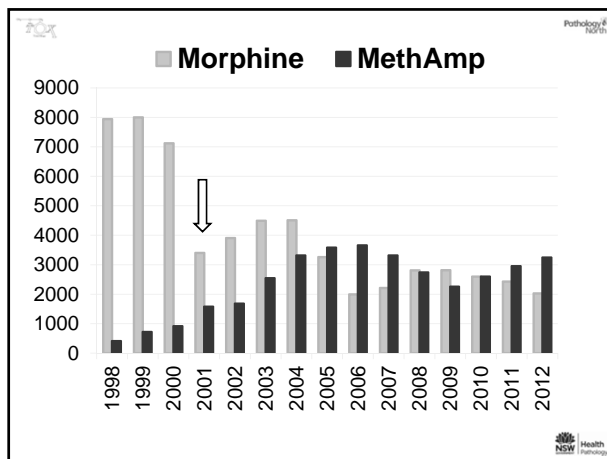
- Immunoassays
- HPTLC
- Targeted GC/MS
- Broad Screen GC/MS

HPTLC



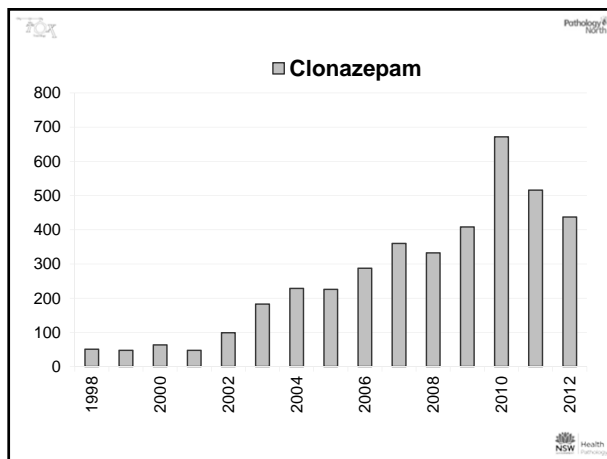
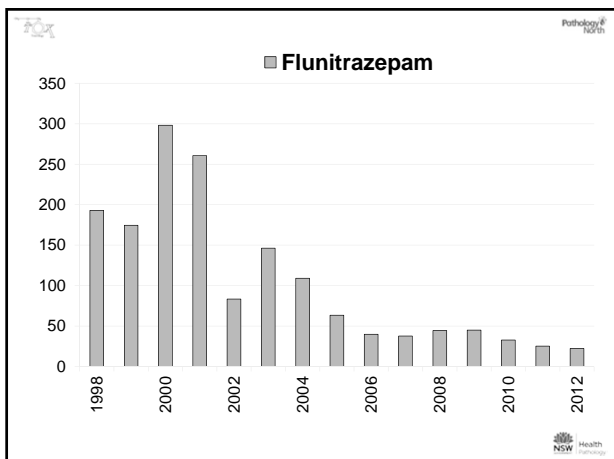
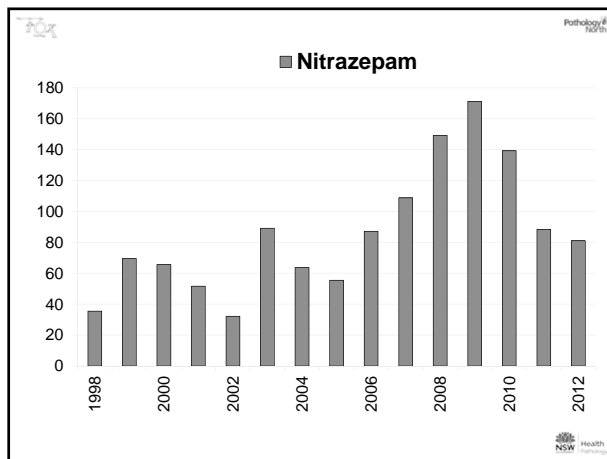
Data Limitations

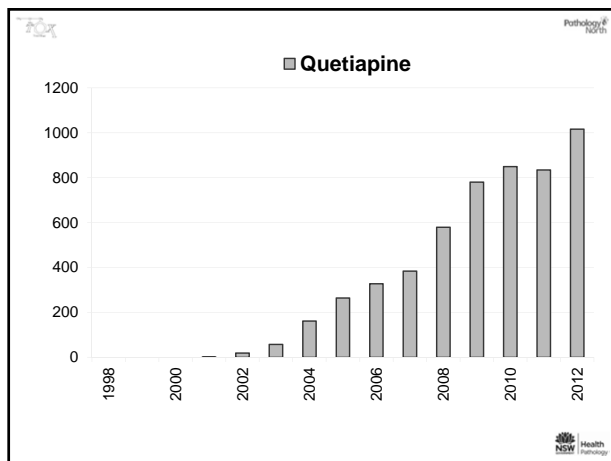
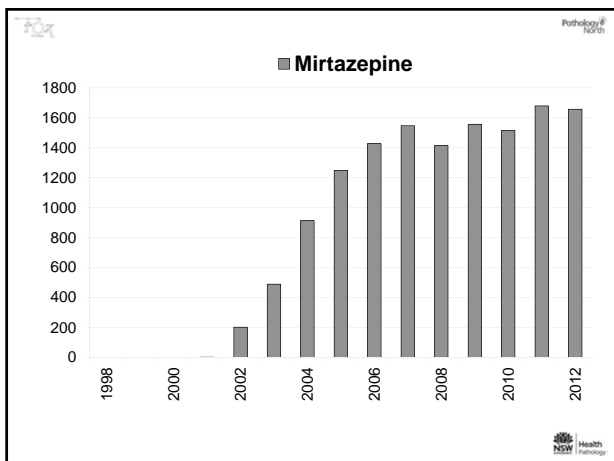
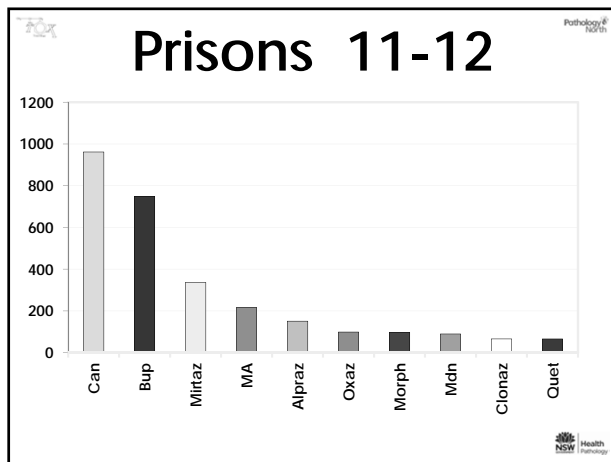
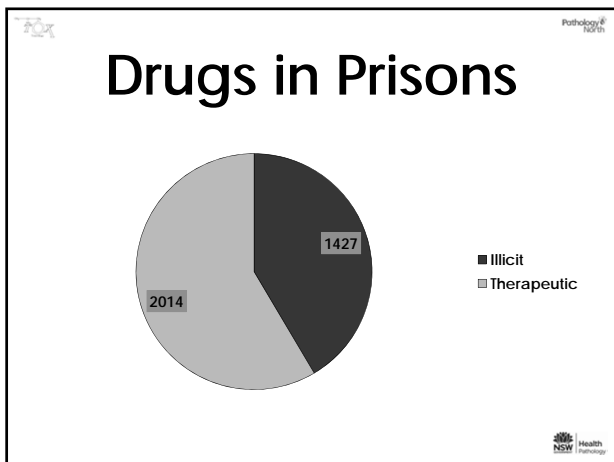
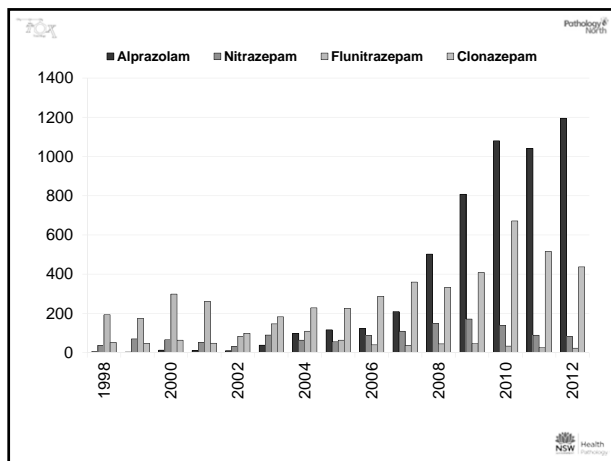
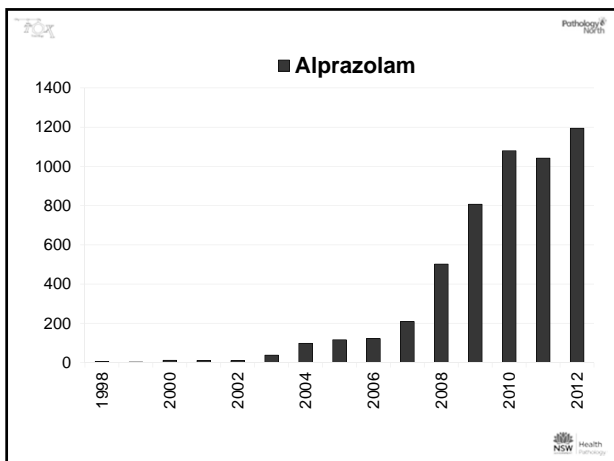
- Per sample not patient
- Different clinic protocols
- Long half-life vs. short
- What's on the list?
- How much is prescribed?

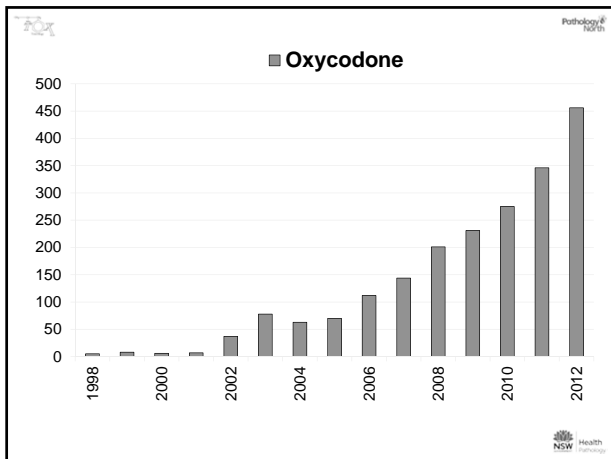


"Sleeping Pills"

- Barbiturates
- Methaqualone
- Benzodiazepines
- More Benzodiazepines
- Z-Drugs







What are we missing?

- ## Special Tests
- Ketamine
 - Fentanyl
 - Buprenorphine

- ## Challenges
- LSD
 - Steroids
 - Spice
 - Designer Amphetamines