

BUSINESS REVIEW

HOSPITAL SYSTEM JANUARY – MAY 2016

TOXICOLOGY RESULT SUMMARY	
TIME PERIOD	Jan – May 2016
Sample Volume	2696
Urine Volume	2696
Oral Fluid Volume	0
Other Matrices	0
Overall Unexpected Rate	70.0% (1888 Samples)
Positive for Illicit Drugs	16.1% (433 Samples)
Positive for Unexpected Drugs	63.3% (1707 Samples)
Negative for Expected Drugs	0% (0.0 Samples)

REVIEW OF TESTING

JANUARY – MAY 2016

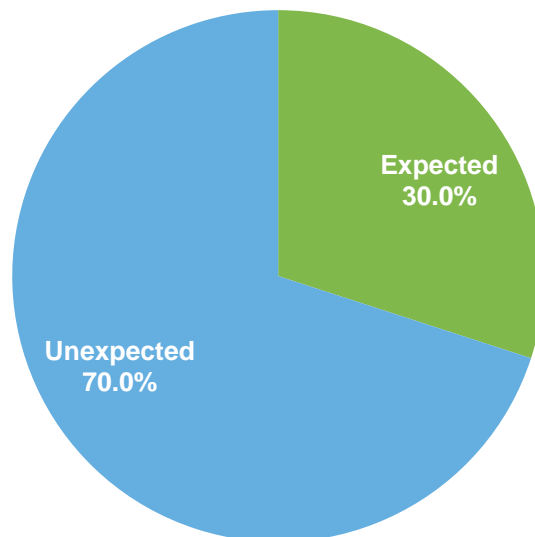
SAMPLE VOLUME BY TYPE: 2696 SAMPLES TESTED



Selection of testing method

- All of testing was performed via **urine**.

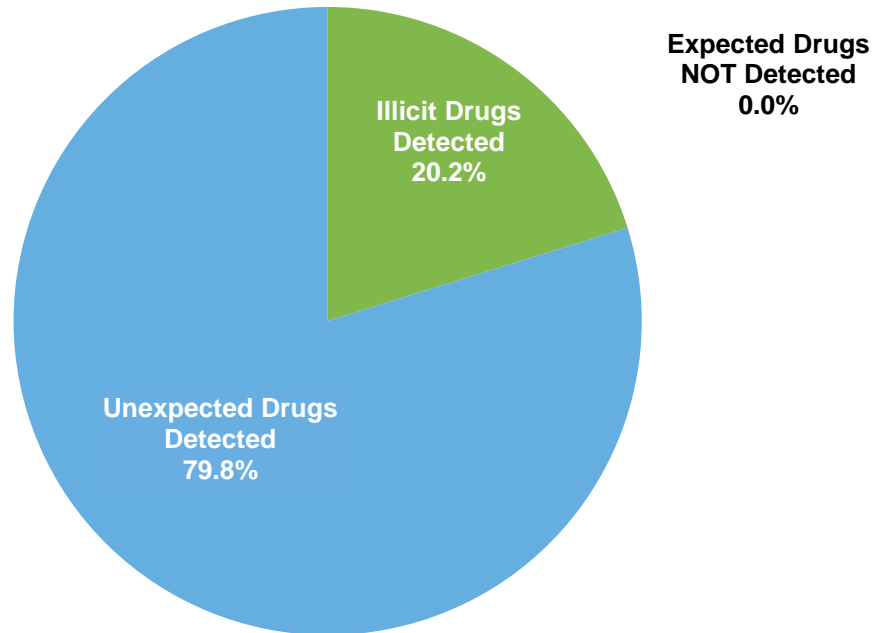
TESTING SUMMARY: 70.0% UNEXPECTED RESULTS



**Of the 2696 samples tested,
1888 revealed some type of unexpected result.**

An unexpected result is defined as illicit substances detected,
drugs not reported as prescribed detected, and/or drugs reported as prescribed not detected.

DISTRIBUTION OF UNEXPECTED RESULTS



Majority of the unexpected results observed were due to
Unexpected Drugs Detected.

UNEXPECTED POSITIVE RESULT

79.8%

1707 of the unexpected results observed were samples **positive for drugs not reported as prescribed**.*

*includes alcohol and nicotine.

UNEXPECTED NEGATIVE RESULT

0.0%

0 of the unexpected results observed were samples **negative for drugs reported as prescribed**.

UNEXPECTED ILLICIT DRUGS

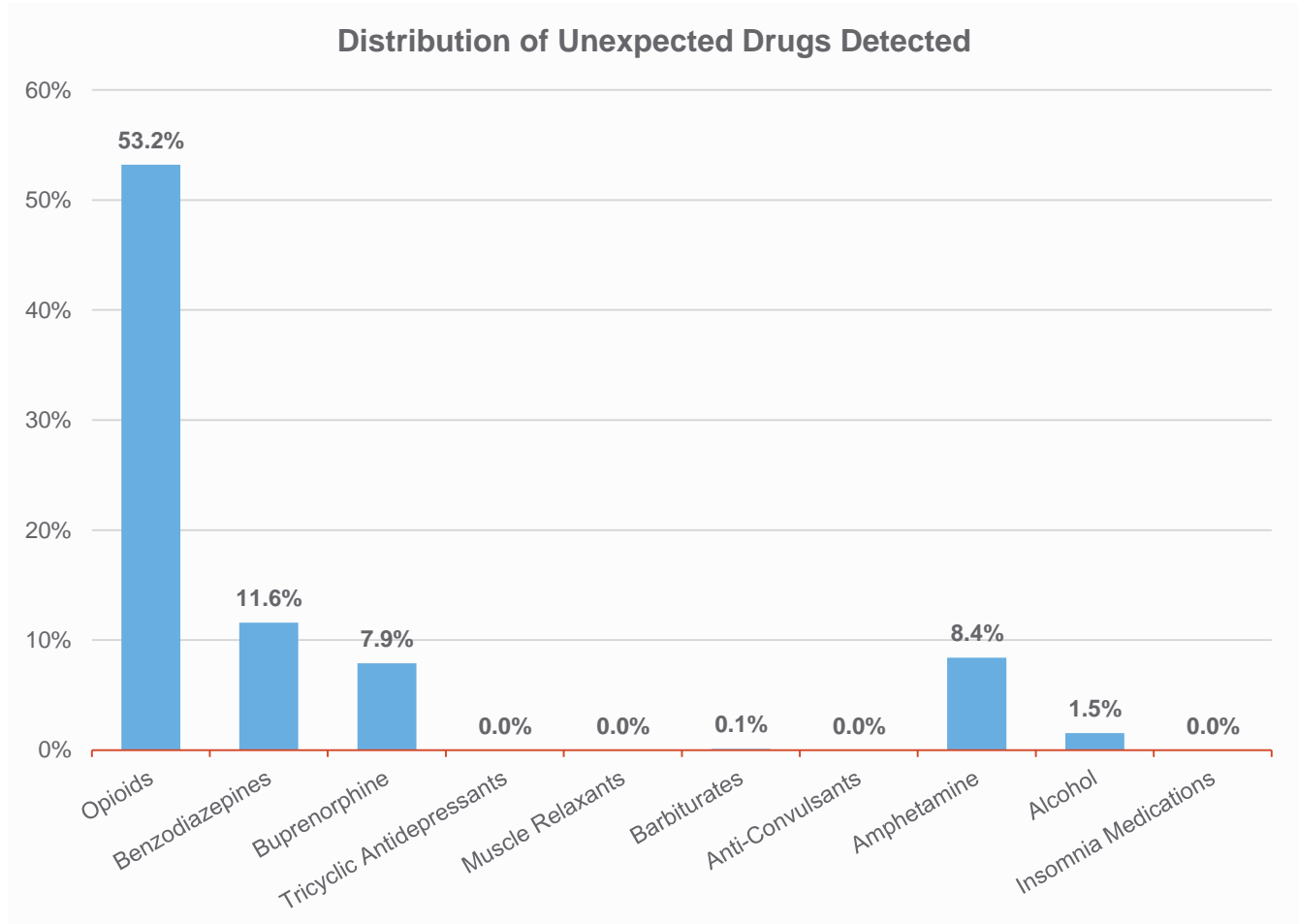
20.2%

733 of the unexpected results observed were samples **positive for illicit substances**.

- **1636 samples** resulted in a single unexpected result.
- **252 samples** revealed a combination of unexpected results.
- **0 samples** revealed prescribed medications detected in addition to unexpected result(s).

UNEXPECTED DRUGS DETECTED

- 1707 samples tested positive for drugs not specified by you.
- 0 of these samples were positive for prescribed drugs as well as non-disclosed drugs; this combination could mean **higher risk for undesirable outcomes**.

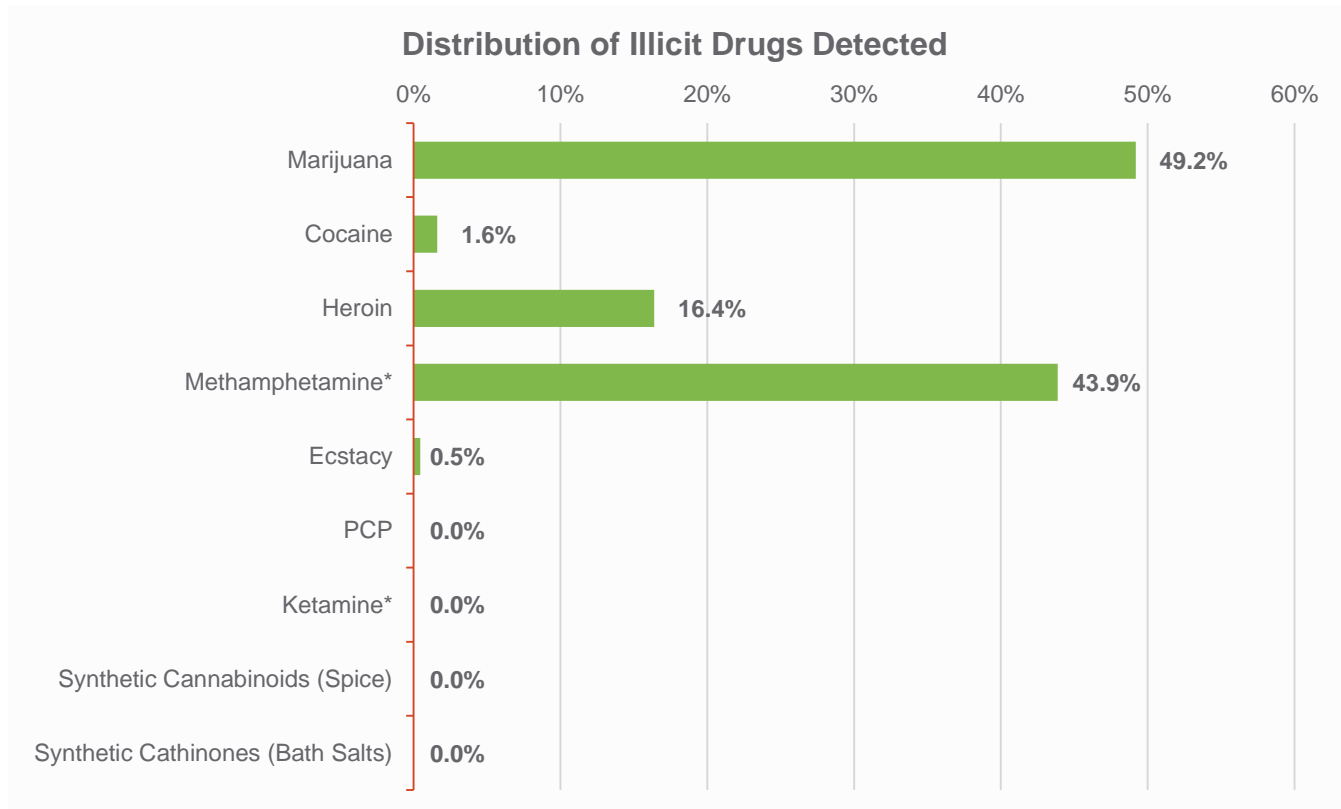


Top Drugs NOT Reported as Prescribed, but Tested POSITIVE

1. Oxycodone
2. Morphine
3. Hydrocodone
4. Amphetamine
5. Buprenorphine

ILLCIT DRUGS DETECTED

- Illicit drugs were detected in 433 samples.
- 252 of these samples **also tested positive for therapeutic drugs**.



Illicit Drug	Frequency Observed
Marijuana	213
Cocaine	7
Heroin	71
Methamphetamine*	190
Ecstasy	2
PCP	0
Ketamine*	0
Synthetic Cannabinoids (Spice)	0
Synthetic Cathinones (Bath Salts)	0

*Potential therapeutic use.

TESTING FREQUENCY: 1.4 TESTS PER PATIENT, ON AVERAGE

Most patients were tested once during the time period.

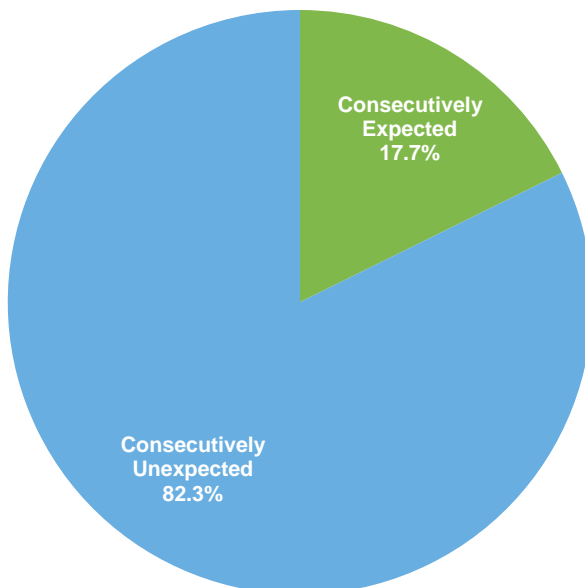
TESTING FREQUENCY PATIENTS	
Once	1583
Twice	202
3 Times	57
>3 Times	92

- What tools are being used to track when patients testing is due?
- Do you retest patients with unexpected results at their next visit?
- What is the **testing protocol**: What triggers the need for a toxicology test?
- **How often** do you want patients tested?
- Are you using a **risk assessment tool** to assist with determining rate of testing?

PATIENTS WITH 2+ TESTS: 82.3% CONSECUTIVELY UNEXPECTED

Expected then
Unexpected
0.0%

Unexpected
then Expected
0.0%



Analysis of patients with multiple drug tests* in the past 6 months revealed **289 patients with consecutively unexpected drug tests.**

*Analysis of 2 most recent prior toxicology results

Almost all the CMS's Medicare Administrative Contractor's provide that **documentation** in a patient's medical record set forth the **clinician's rationale** for definitive testing and the **medical necessity** for every ordered test on an individual patient basis.

POSITIVITY ANALYSIS: URINE DRUG TESTING

DRUG CLASS	ANALYTE	FREQUENCY ANALYTE DETECTED	FREQUENCY DRUG CLASS TESTED
OXY	Oxymorphone	512	2228
OXY	Oxycodone	484	2228
OPI	Morphine	412	2228
OPI	Hydromorphone	400	2228
OPI	Hydrocodone	308	2228
AMP	Amphetamine	241	272
BUP	Norbuprenorphine	229	237
BUP	Buprenorphine	227	237
THC	Delta-9-THC-COOH	198	206
AMP	Methamphetamine	179	272
OPI	Codeine	177	2228
BZO	Alpha-Hydroxyalprazolam	107	269
BZO	Oxazepam	98	269
BZO	Temazepam	87	269
MTD	EDDP	77	77
BZO	Nordiazepam	75	269
MTD	Methadone	75	77
6AM	6-Acetylmorphine	69	76
ETG	Ethyl sulfate	39	227
BZO	7-Aminoclonazepam	37	269
ETG	Ethyl glucuronide	36	227
FEN	Norfentanyl	23	23
FEN	Fentanyl	22	23
BZO	Lorazepam	15	269
COC	Benzoyllecgonine	6	6
BAR	Butalbital	3	4
BZO	Alpha-Hydroxytriazolam	2	269
BZO	Alpha-hydroxymidazolam	2	269
BZO	Desalkylflurazepam	1	269
DXM	Dextromethorphan	1	1
PCP	Phencyclidine	1	2
XTC	MDA	1	272
BAR	Secobarbital	0	4
BAR	Phenobarbital	0	4
BAR	Amobarbital	0	4
BAR	Pentobarbital	0	4
BZO	7-Aminoflunitrazepam	0	269
DXM	Dextrorphan / Levorphanol	0	1
FEN	Acetylfentanyl	0	18
FEN	Acetylnorfentanyl	0	18
OPI	Norhydrocodone	0	1
XTC	MDMA	0	272

