

Washington County

- Where is Washington County?
- 20 miles south of Pittsburgh, Pennsylvania
- Population approximately 210,000
- Crossroads of two major Interstate junctions 70 and 79
- Bordering the States (Ohio and West Virginia)
- About 4,000 offenders annually
- Urban transitioning to Suburban and Rural landscape
- Ground Zero for the opiate epidemic



Sequence of Drug Testing Within Washington County

• 1990's Collection ——→ Bag ——→ Mail (Large Laboratory)

Advantage: less manpower

Disadvantage: slow turnaround and expensive,

little to no internal control

· 2000's Collection ---- Instant Device

Advantage: low cost

Disadvantage: hard to read, virtually no data collection,

low reliability, poor quality control

· Now All Collection and Screening done in-house (On-Site Analyzer)

Advantage: low cost, superior data management, full control of processes, ability to test in large numbers, much more reliable testing, quick and easy turnaround , superior quality control

Disadvantage: requires lab buildout, requires staffing, requires training and certifications

The Washington County Drug Testing Laboratory





2019 Automated Drug Testing Results - 15,119 Total Samples Run 1. Cannabinoids (517 Positives) 2. ETG (216 Positives) 3. Cocaine (202 Positives) 4. Fentanyl (152 Positives) 5. Oxycodone (149 Positives) 6. Opiates (148 Positives) 7. Amphetamine (142 Positives) 8. Benzodiazepines (93 Positives) 9. Buprenorphine (84 Positives) 10. Kratom (37 Positives)

Washington County Tracking



What did the GIS show us?

- Verified the hot spots for drug usage within our County
- The information was empirical due to the results coming from the human body and then plotted on a map of verified addresses
- Allows stakeholders to quantify where treatment resources should be bolstered
- Allows law enforcement resources to concentrate efforts of surveillance
- Eliminates opinions and innuendo on where the drug problem may or may not be $\,$

How did on- Paracelsus* allows us to electronically group offenders into specific quadrants of testing matrixes site testing · Paracelsus removes any human error within randomized systems • Call 2 Test saves time and effort allowing employees to concentrate on collections and testing On-site testing allows the agency to control turn around time and results notifications – we turn around results in less than 8 hours on average – we have run over 250 tests in one day Partnered with a local toxicology group allows us to receive any needed confirmations in less than one working day *The Paracelsus® Software is a registered trademark of ACT Innovations · Our normal collection and testing monthly operates at approximately 1,900 per Out of that 1,900 approximately 1,400 is our community correctional testing The remaining 500 tests are done by us for other governmental agencies, such as the jail, children and youth services, and other civil and court entities On-site testing capabilities has made us the central location for collections, testing, and organizing all aspects of urinalysis and oral fluid testing including confirmations We are now able to service almost identical to having a contracted outside laboratory for the County in-house. In addition to providing much more efficient service we have also have acquired all of the budgetary necessities in that function from the County Ability to Run Sub-Agency Testing Our cost per panel is approximately \$4.75 per sample (based on a formula of our standard panel + employee time) as compared to outside lab costs per panel at approximately \$10.00 per sample Our testing process is vastly quicker, with minimal cost, and is completely controlled by us internally Our drug testing program has exponentially improved our Specialty Court testing. It is inarquable that the volume of testing for this population is the highest per individual. Some highlights of the benefits are: We are able to track Specialty Court populations (positives/negatives) much easier within this system, i.e. separating this population from our other criminal justice testing groups Our Specialty Court Judge relies on quick and reliable screening as a means of deciding sanctions, this paradigm provides that availability Specialty Court Specific Functions The Call 2 Test mechanism is a much more professional tool in regards to the offender, it presents the image of an agency that has their processes in-line Color coded grouping inherent within the Paracelsus allows for easy scheduling and multiple drug testing sub-sets the sub-sets. The sub-sets will be sub-set the sub-set sub-sets with the sub-set sub-set sub-sets and processes. It hink our Specialty Court team members may be some of the most educated in regards to testing and the realities v. myths regarding drug testing. This is because they have the advantage of being familiar with the equipment, and the availability to be part of the quality control of our in-house processes

COVID-19 and

Benefits:

- Labs that have transitioned to COVID testing did not affect our ability to process samples
- 2. We can transition our analyzer over to oral fluid which provides a much safer sample collection process relative to COVID, i.e. we can collect outside, practice safe distance observed collections, have limited contact with the donor, and process the collection by touching nothing but the sample bag until it goes into the analyzer.

Our Outside Oral Fluid Collection Team



To all that made our lab and process possible $% \left\{ \left\{ 1,2,3,...,4\right\} \right\}$

- Thermo Fisher Scientific
- Med-Test
- SteelFusion Toxicology
- All of the dedicated employees of the Washington County Drug Testing Laboratory

Thank You

Please feel free to contact me if you would like:

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"This is how we do it" Implementing Automated Drug Testing Strategies for Better Outcomes NADCP Hosted Webinar - Wednesday May 27, 2020 Presenter: Joel Carter BA LSW Mount Vermon Municipal Court Probation Officer / Program Coordinator The views of the presentation are those of the Speaker and do not necessarily represent, show the presentation are those of the Speaker and do not necessarily represent, show the presentation are those of the Speaker and do not necessarily represent, show the presentation are those of the Speaker and do not necessarily represent, show the presentation is sponsored by Thermo Fisher Scientific.

Disclaimer statement

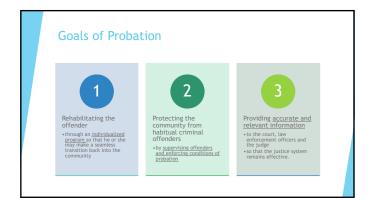
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Presentation Overview

- ▶ Our Drug Court Program An Overview
- ▶ Challenges experienced within the Program
- ▶ Limitations of Dip Test for Drug Screening
- ▶ Considerations for Drug Testing Automation
- ▶ The "Fear" of Automated Drug Testing
- ▶ Program Improvements since using Automated Drug Testing
- ► Summary / Conclusions







Requirements of an Effective Drug Court Program Drug Court Program is "treatment" focused # AA meetings Service contribution hours Other Drug test results: Timely, Accurate, Valid Encourage participants to keep moving forward in their

Accurate Data and Data Tracking "Impossible task, it was all manual"



- - Chain of Custody
 - ▶ Test results: entered as positive or negative
 - ► Hand tabulated & created drug testing reports
- Manual process did not lend itself to... Participant trend reports
- Easy Access to drug test results (not computer or internet based)
- Manual Dip Test method
 - ► Subjective interpretation of results: repeats
 - Limited other test options
 No specimen validity tests

Ledger BookParticipant name





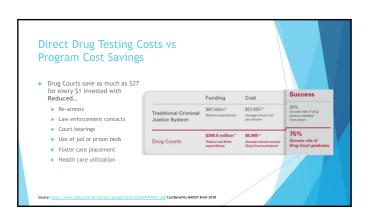
From Dip t	o Automate	d:	Thermo Scientific™ Indiko™ Plus Analyzer	
Question			Automated Test	
Positive or negative? False Positives?	Qualitative Testing	Subjective: may require repeat testing	Objective: minimal repeat testing	
Reducing drug usage? Have you improved?	Semi-quantitative testing	No - Not available	Yes - compare with previous test results	
Can I test for specific drugs?	Flexible testing menu	No - Limited to panels	Yes -individualized and randomized	
Has the specimen been tampered with?	Specimen validity test e.g. creatinine	Not available???? Not easily integrated	Yes - select from a menu of 4 tests	
What is the true result, when creatinine is factored?	Normalized reports: e.g. THC + creatinine	No-Not available	Yes - calculated automatically	
How soon to test result, so I may share with participant?	Time to Result	-3? Minutes per panel (1, 6, 13)	-15 minutes, first test, -1 minute for every test thereafter	
What drugs are trending in this region?	Trend Reports: compare participant positives	No - all manual	Yes - calculated automatically	

Confirmation Testing

- Necessary to confirm any presumptive screening test result from the Immunoassay
- Confirmation could help with proving a result that is challenged
- ► Gold Standard is GC-MS/MS, LC-MS/MS
- Provides specific identification of the parent/metabolite
- ▶ Provides quantitative measure of drug in the sample



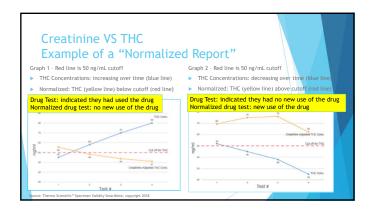


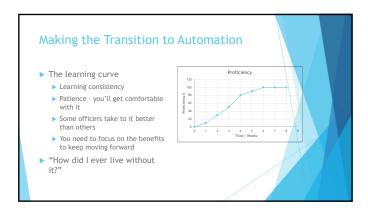


Time Required Automation: Is it right for me? I don't have the time to implement something new! Better to invest time to save time and resources in the long run... Consistent, methodical, legally defensible

Making the Transition to Automation Changing the way we think Its not an immediate result - dip and go Quality over instant gratification I'm getting all of this useful data out of it takes a little time to understand and use Using the drug testing information Normalized report (e.g. creatinine) Participant drug trends over time Assessing drugs trending in our community Inspire the maganization of Plather. Inspire

Creatinine VS THC Example of a "Normalized Report" • Creatinine - indicates how accurate the test results are relative to how hydrated a participant is • hydrated (took lots of fluids before their test) • Dehydrated (more dehydrated than normal) • Common use is with THC, which can stay in the fat cells









Insights with Automation ▶ Drug Trends Test Result Amphetamine ▶ What drugs are we seeing with a participant? Negative Negative Negative Positive Barbiturate ▶ What is the population using? Are they opioid-pills, heroin, fentanyl, kratom? Buprenorphine Negative Negative Cocaine Ethyl Alcohol Methadone Negative Negative Negative ► How did we live without this? If we still used dip test: Opiate Efficacy of providing treatment would Oxycodone Creatinine Normal decrease ► Accountability would decrease Kratom Positive conversations with people to put belief back in them, would be eliminated



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Accountability court practitioner objectives Decrease participant risk of re-arrest promote stabilization and recovery Substance use and mental health disorders Improve family functioning and child safety Decrease family services re-entry rates Enhance justice and treatment system resourcing Change the world one person at a time

The promise of accountability courts
➤ The drug court model can reduce re-arrest by 30 to 50% (Carey et al., 2012) when high quality program services match the needs of the target population (Marlowe et al., 2012; Zweig et al., 2012) ➤ Accountability courts generally return better outcomes than baseline or normal-course community-based or correctional programming
Normal-course community-based or correctional programming Obviously, drug testing is among the most important practices Stopping drug abuse is foundational for effective treatment of anything
➤ Detection is mission critical
 Undetected drug abuse is a ticking time bomb leading to post- graduation recidivism, relapse, and re-entry for child services cases Effective detection accompanied by sound behavioral modification
improves outcomes - certainty and timeliness (Harrell & Roman, 2001)

The argument for Automated labs Level of detection (LOD) is generally lower for automated labs versus point of care (POC) testing While not appropriate as a basis for sanctioning it can and should affect testing practices Flexibility is greater than POC as panels can be easily changed to keep-up with changing drug abuse patterns Data integrity is enhanced with automation as results are easily integrated into data management systems and formatted for analysis and policy discussion Subjectivity and human error is reduced through automation Automated systems help improve collection practices with notification and randomization tools



