

# Forensic Science Center

FY 17-18 Budget

# Forensic Science Center

- Medical Examiner: Cause/Manner of Death
- Forensic Chemistry: Identify seized drugs
- Fire Debris Analysis: Detect presence of ignitable liquids
- DUI testing: Determine alcohol and drug concentrations of suspected impaired drivers
- DNA analysis: Determine DNA profile of biological samples
- Many times the results of these determinations influence criminal justice outcomes

# Medical Examiner

- District Medical Examiner is appointed by the Governor
  - Contract with both Pasco and Pinellas
  - Pasco County is fee for service
  - Forensic Laboratory performs postmortem toxicology as required by FAC
  - Approaching 17 years of service

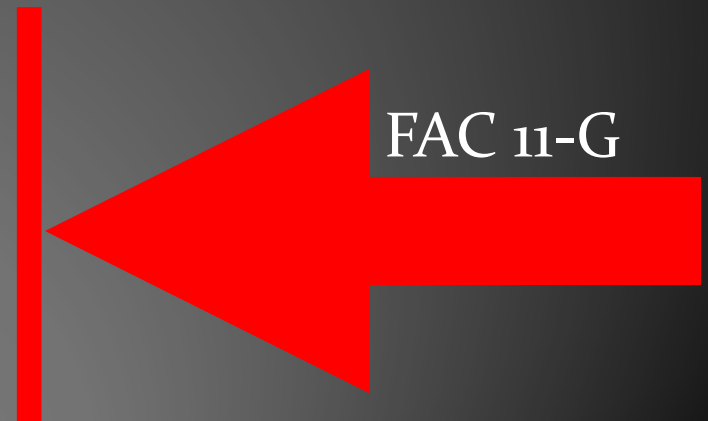
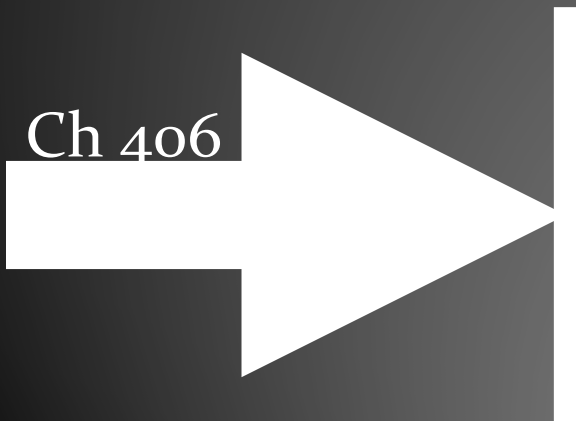


# MEDICAL EXAMINER

- Accredited by the National Assoc. of Medical Examiners
- All our Medical Examiners are board certified in Forensic Pathology
- Authority to perform the investigations under FSS Ch. 406
- Minimum standards of practice enforced by FAC 11G

# Limits of Operation

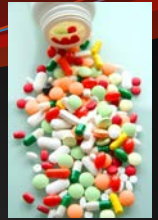
- We operate between a written set of parameters set by the State of Florida



# Forensic Laboratory

- All laboratory staff are required to be certified
- ASCLD-LAB accreditation required by contract
- Grant funding awards (past and present) have been extensive
- Over \$300,000 in grants awarded in FY17
- Synthetic Opioids and other novel drugs have increased demands

# Drugs

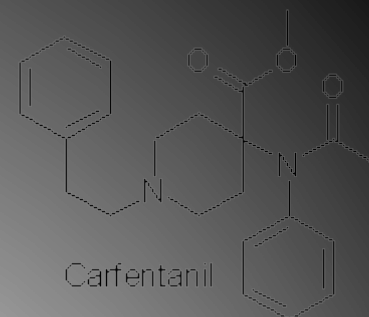
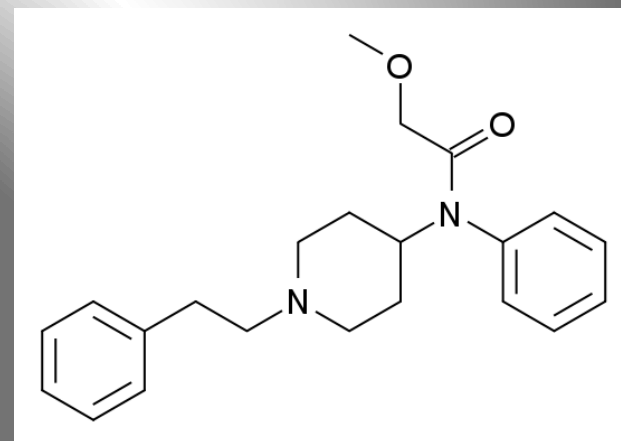
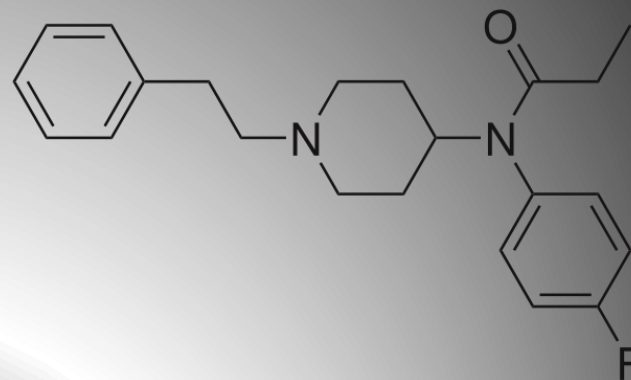
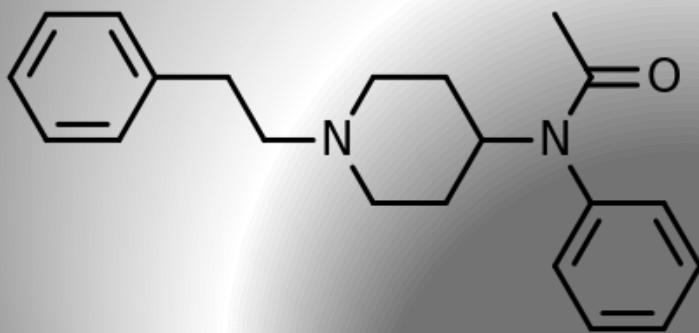
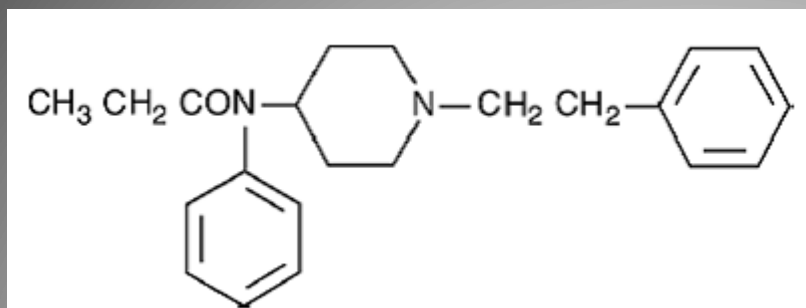


- Toxicology and Drug Chemistry sections have experienced significant increases in:
- Synthetic Opioids: fentanyl analogs and others

# Forensic Lab 2016 Workload

- Total submissions up 5%
- Postmortem Toxicology up 8%
- DUI submissions up 11%
- DNA submission up 13%
- Sexual assault kit submission 100% higher than expected

# Fentanyl Analogues





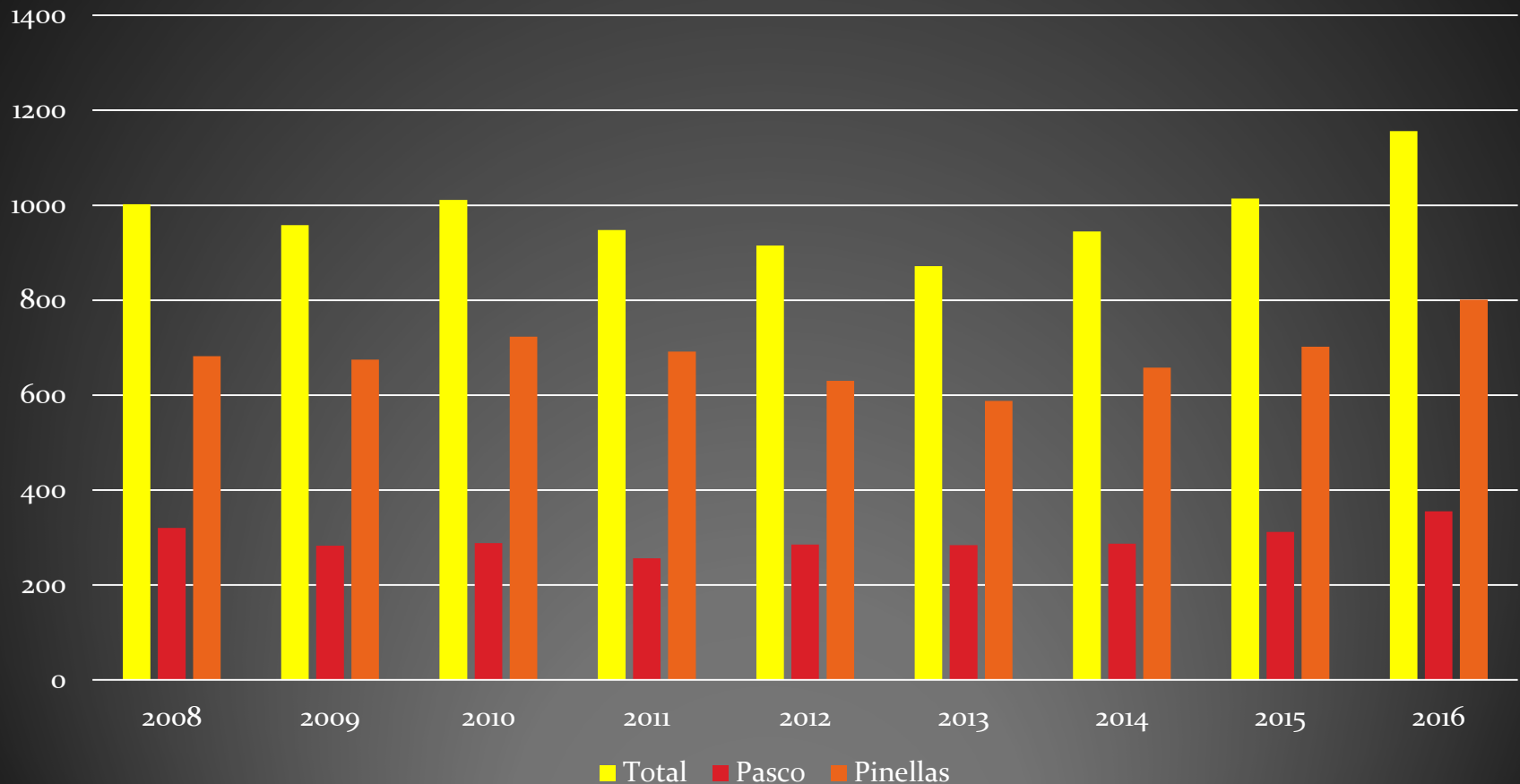
# Counterfeit Drugs

Counterfeit Pharmaceutical Drugs			
Markings	Description	Marking consistent with	Drugs Identified
K 9	round blue tablet	30mg Oxycodone	butyryl fentanyl
A215	round blue tablet	30mg Oxycodone	butyryl fentanyl
V4812	round blue tablet	30mg Oxycodone	butyryl fentanyl
Pd 8	white rounded triangle tablet	8 mg Hydromorphone	butyryl fentanyl
M 30 (M in in box, 30 on reverse)	round blue tablet	30mg Oxycodone	butyryl fentanyl
Cor 226	round blue tablet	30mg Oxycodone	butyryl fentanyl
U24	round blue tablet	30mg Oxycodone	butyryl fentanyl
G3722	white bar tablet	2mg Alprazolam (Xanax)	fentanyl and alprazolam
A215	round blue tablet	30mg Oxycodone	fentanyl
S 90 3	green bar tablet	2mg Alprazolam (Xanax)	etizalam and fentanyl
R039	yellow bar tablet	2mg alprazolam (Xanax)	etizalam and fentanyl

# Medical Examiner 2016 Workload

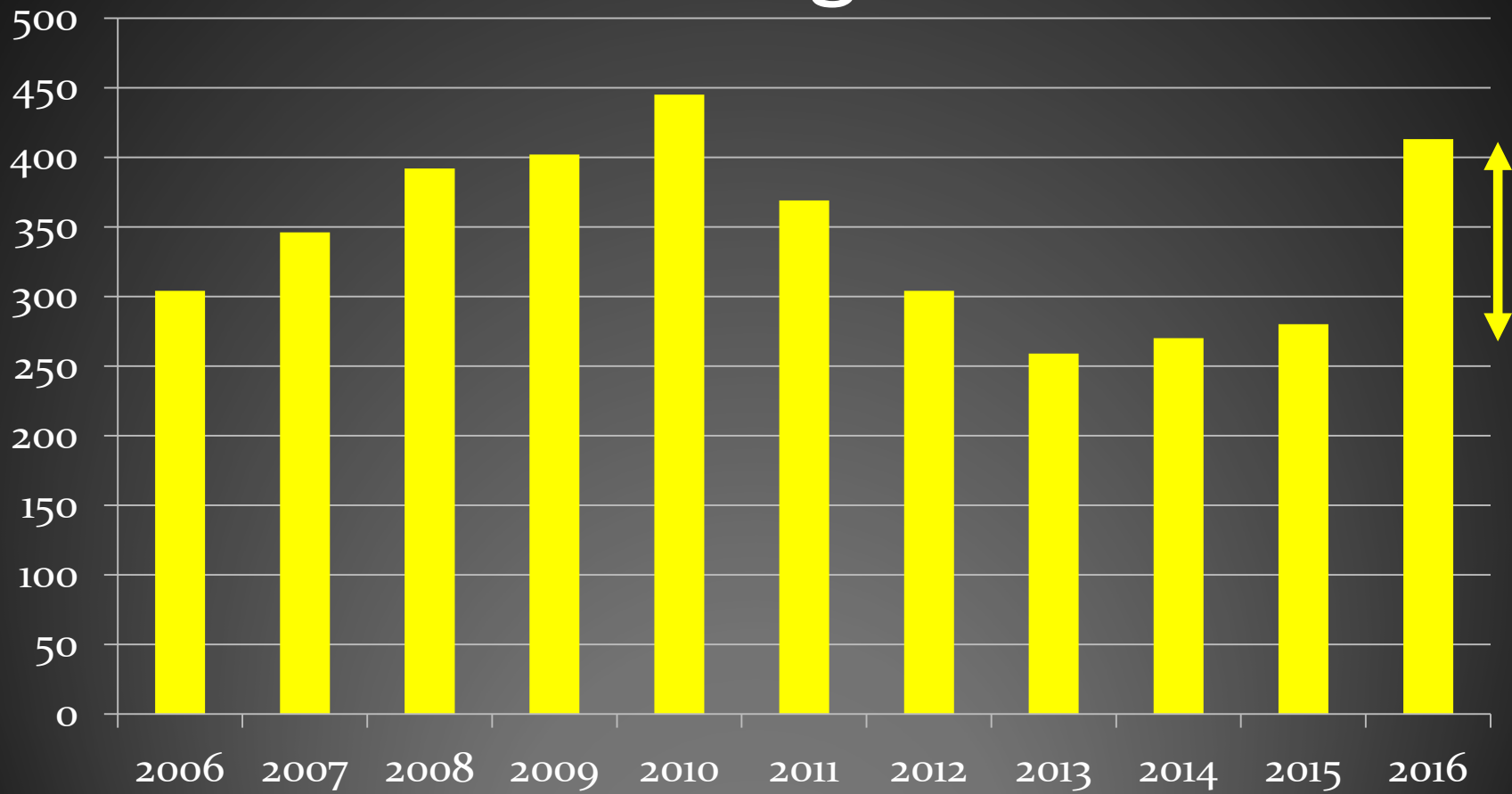
- Total cases up 207 over CY2015
- Autopsies increased by 149
- Pinellas autopsies increased by 120
- Scene investigations increased by 70
- Calendar year 2017 up 77 cases over CY 2016 (as of May 1<sup>st</sup>)

# Total Accidental Deaths 08-16



# District Six

## Accidental Drug Overdoses



# Costs for FY18

- FY 17 budget vs. estimated at -\$50,000
- DNA FY18 grant funding at \$274,000
- Machinery, Equipment
  - LC/MS system for toxicology \$400,000
  - GC/MS system for chemistry \$130,000
  - Fume hoods for the Forensic Lab \$30,000 (grant funded)



# Liquid Chromatograph Mass Spectrometer System

- Estimated cost \$400,000
- Benefits
  - Mitigate reference laboratory costs (\$50,000/\$22,000)
    - Fewer Pinellas and Pasco County send out tests
  - Replace other end of service life instruments
  - 75% more efficient with time and labor
  - Detect and quantitate many more substances

# Budget and Financials

Perspectives and  
Comparisons

# Organization of M.E. Offices

- Ch. 406 mandates only that the counties provide funding for the Medical Examiner
- Most counties choose a contractual relationship
- This arrangement is in alignment with Ch 406 and protects the taxpayers
- Our management model ensures a higher level of performance at lower cost

# M.E. \$/UNIT OF WORK

M.E. Office	\$/AUTOPSY	\$/violent death
<b>DISTRICT 6</b> FY17	<b>3793</b>	<b>3147</b>
DISTRICT 13 Hillsborough	<b>4442</b>	<b>4594</b>
DISTRICT 17 Broward	<b>6620</b>	<b>4543</b>
DISTRICT 11 Miami/Dade	<b>6684</b>	<b>7739</b>

# M.E. \$/UNIT OF WORK

M.E. Office	\$/AUTOPSY	\$/violent death
<b>DISTRICT 6</b> FY18	<b><u>4182</u></b>	<b><u>3469</u></b>
<b>DISTRICT 6</b> FY17	<b>3793</b>	<b>3147</b>
DISTRICT 13 Hillsborough	<b>4442</b>	<b>4594</b>
DISTRICT 17 Broward	<b>6620</b>	<b>4543</b>
DISTRICT 11 Miami/Dade	<b>6684</b>	<b>7739</b>

