lowa Office of the State Medical Examiner Update 2018

Dennis Klein M.D.

Mission Goals

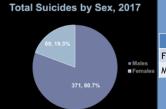
- Conduct high quality and professional medical legal death investigations
- Provide and Protect credible and useful information
- Serve the public ethically and compassionately

	2018	% Autopsied	Last 4 year avg
Total cases reported	5,515		5,522
Autopsies	1,499	26%	1,537
Homicides	88	100%	81
Suicides	424	77%	305
Accidents	1,188	49%	1,217
Naturals	3,691	11%	3,583
Undetermined	99	95%	93

IOSME Categories by Manner

- Homicide: Firearm (22), Sharp force (15), BFI (12)
- Suicide: Firearm (86), Hanging (46), Drug (19)
- Accident: BFI transportation (126), Drug (75), BFI (29)

Iowa Violent Death Reporting System Data



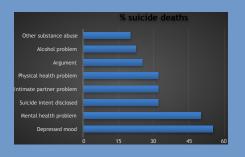
	Asphyxiation	Firearm	Poisoning	Other
Females	33.7%	15.7%	42.7%	7.9%
Males	30.2%	52.8%	10.8%	6.2 %

Other: drowning, fire/burn, motor vehicle, non-powder gun, intentional neglect, and sharp instrument

Iowa Violent Death Reporting System Data

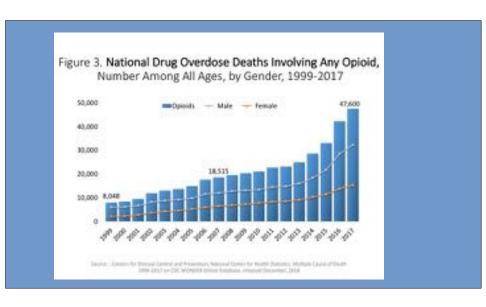
FACTORS CONTRIBUTING TO SUICIDE DEATHS

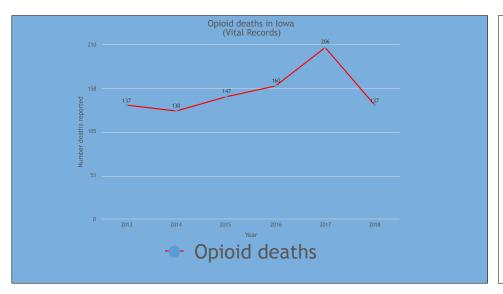
In 97% of lowa's resident deaths by suicide, contributing circumstances surrounding the suicide deaths were documented in the records (N=445) by the medical examiner and/or law enforcement.

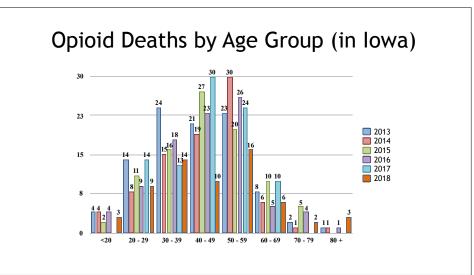


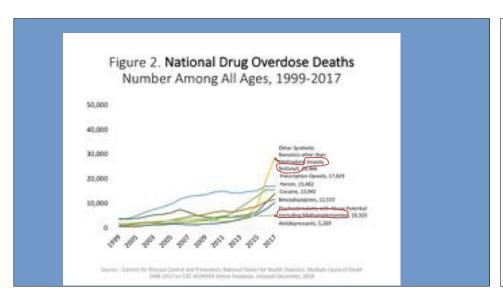
Child Death Review Team

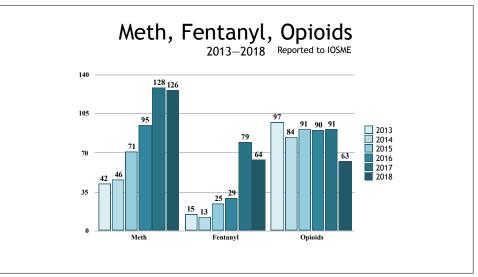
- Multidiscipline team reviews ME LE DHS Edu records
- Sleep related deaths (35-40 deaths /year)
 - Preventable
 - Need thorough scene investigation with doll re-enactments
 - Autopsies r/o anatomical, tox, infectious, inflicted, molecular
 - Team subcommittee working with Soc Media PSA

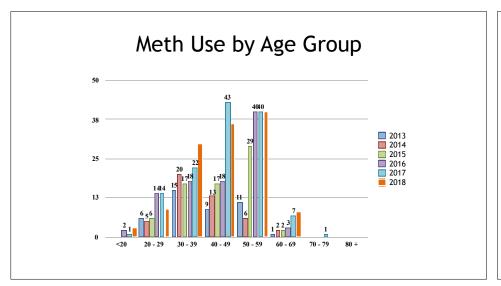


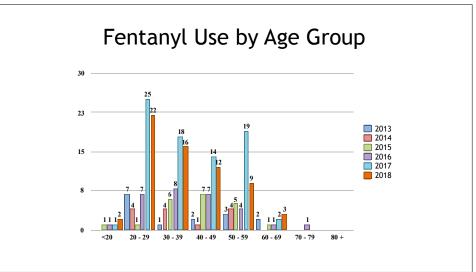






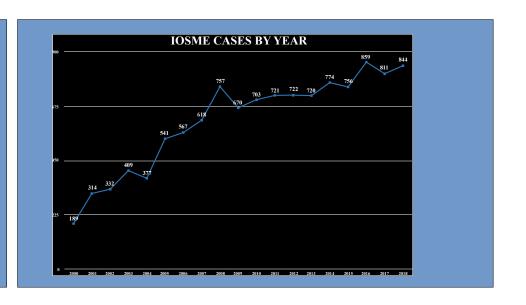


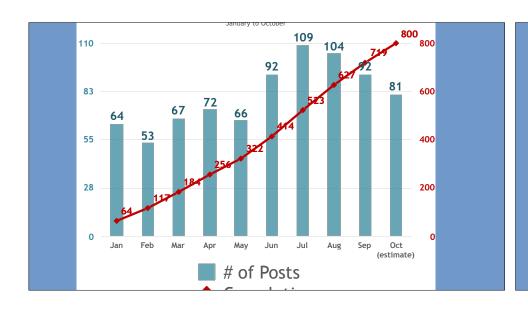




Conclusions/Recommendations

- Opioids- leveling
 - Fentanyl and analogs continue to be seen
- Methamphetamine- Major Drug in Iowa
- Drug use and intoxication extending into 50's and 60's
 - Complex interpretation of Natural Disease and Toxicology
 - Increase index of suspicion in older age groups
 - Lower threshold for autopsy in 50-60 age group
 - Long T_{1/2} in Methamphetamine may not see drug at scene





IOSME Staffing

12 Full Time

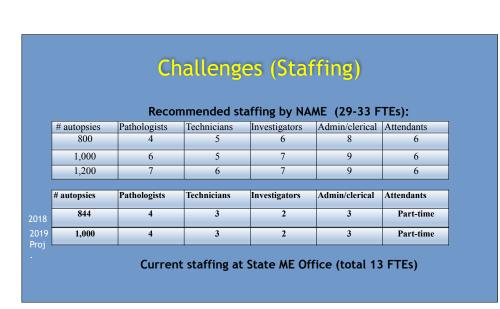
- 4 Forensic Pathologists
- 1 Medical Examiner Investigator
- 1 MEI liaison
- 3 Autopsy Technicians
- 3 Administrative Assistants
- 1 Radiology Technician

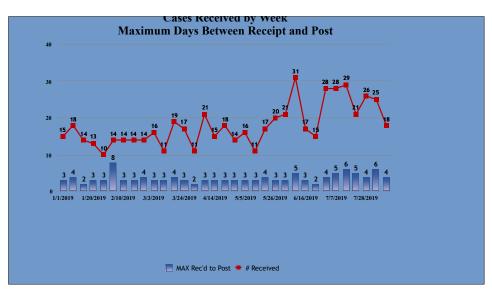
30 Part Time

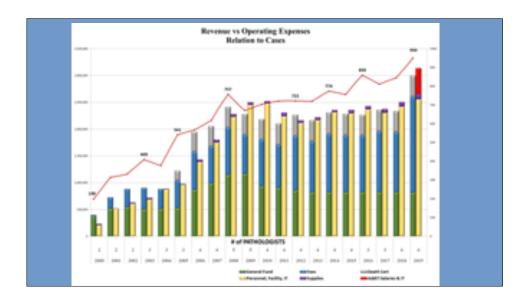
- Autopsy technicians
- Morgue Attendants
- Administrative Assistants
- Investigators (2)

Partnership

• 2 IDN Liaisons/investigators







Challenges

- NAME accreditation pathologist ratio <250/pathologist
- Call, testimony, and vacation coverage
- Surge and Mass Fatality Capacity
- Facility capacity

Challenge slowly claimed Bodies

- Increase frequency of families with limited funds, taking up to 1 year
- Funding alternatives
 - Some counties "general assistance" funds help pay for cost of final arrangements
 - VA benefits- County and Department of VA Affairs
 - 35B.15 Expenses and audit: Burial expenses shall be paid by the county in which the person died.

Strategies

- Pathologist coverage
 - Immediate- 2-3 part time pathologists
 - Long term- additional FTE for pathologist
- Investigator coverage
 - Immediate- 2 part time investigators
 - Long term- additional FTE for investigator
- Administrative coverage
 - Immediate- experienced Office manager
 - Immediate- evaluation for work flow efficiencies and IT solutions
 - Immediate- part time clerical staff
 - Long term- additional FTE for admin assistance

Strategies

- Increase cooler capacity
 - Grant- high density racks and lifts for cooler
 - Legal- time limit on storage of unclaimed bodies
- Increase throughput efficiency
 - IT solutions to maximize efficiency scene to autopsy to report
 - Staggered full time technician scheduling for 7 day coverage
 - Training
 - Exercises

ABMDI

- 9 awards to August 2019 St Louis course
 - Paul Coverdell National Forensic Science Improvement Act
- 42 Registry Diplomates in Iowa
 - 2019
 - Jullian Cooper (Polk), Susan Garrett (Muscatine), Richard Hines (Muscatine)
- 12 Board Certified Fellows in Iowa
 - 2019
 - Jessica Jessen (IOSME), Matt Lively (IOSME)

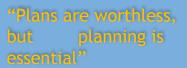
MEI Qualifications -Admin rule

- At least 2 years experience nurse or medical care provider
- Within 3 years
 - St Louis Basic course or its IOSMF-approved equivalent
 - Obtain ABMDI certification
- Waiver if above not able to be achieved.

Medicolegal Death Investigation Training Mark Your Calendar! 1* Assessed Midwest Death Investigation Course July 13-16, 2000 | Archeny, IA Limited Internet of the secretary of each Investigation Descript James India and Insurance Investigation 1 Occoloration and Insurance Investigation 2 Occoloration and Insurance Investigation 3 Occoloration and Insurance Investigation 1 Occoloration and Insurance Investigation 1 Occoloration and Insurance Investigation 2 Occoloration and Insurance Investigation 3 Occoloration and Insurance Investigation 4 Occoloration and Insurance Insurance 5 Occoloration and Insurance Insurance Continuing distriction reaching DMACC Continuin

Mass Fatality Planning

- Mass Fatality Response
 - County and State planning
 - IMORT Development
 - Leveraging existing services
 - Exercise Exercise Exercise









MASS FATALITY- Identified Gaps

- IMORT team members- NEED MORE
- Communications
- GPS equipment and training
- Field body transportation
- Cooling equipment
- Scene body and remains tracking system
- Media and Family management

How do I volunteer for IMORT?

All volunteers for IMORT must be registered through the Iowa Statewide **Emergency Registry of Volunteers** (ISERV). Volunteers can register online and update their information 24/7/365.

In order to register on the I-SERV system, a volunteer must create an account at www.iaserv.org. Be sure to indicate a desire to join the "lowa Volunteer For additional information about the team or for assistance in

register IMORT

The Iowa Mortuary Operations Response Team (IMORT) is sponsored by:





Iowa Mortuary **Operations Assistance** Team (IMORT)





https://www.iaserv.org/

IMORT Membership considerations

- ICS 100, 200, 700, BBP
- Scene
 - MEI
 - Scribe
 - Photographer
- Able to participate in meetings and exercises

County Planning for Mass Fatality

- Know your county Emergency Management Coordinator
 - EMA must collaborate with local funeral homes, county medical examiners, IOSME, law enforcement, fire, EMS, public works, and elected officials
- Have a written Mass Fatality Plan
 - What defines a mass fatality
 - · Who declares a mass fatality
- Family Assistance Center
- Temporary cool storage

Death Certification Objectives

- Identify Decedent
- Obtain Information: Locations, Dates
- Determine Cause and Manner of Death

Death Investigation System Objectives

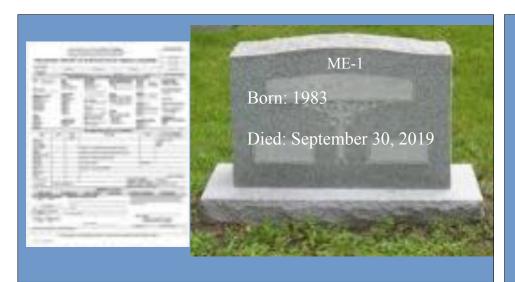
- Accurate and Timely Death Certification
- Efficient and Secure Communication
- Accurate and Useful Data

System Goals

- Death Reporting
 - ->20% of deaths reported to CME (NAME)
 - Reports completed in 14 days (Iowa Code)
- Standardized Drug Intoxication Certifications
 - Include specific drugs in COD statement
- Comprehensive Drug Death Certifications
 - Index of suspicion
 - Expand age range

Why we do what we do

- Legal
- Humanitarian (Families want to know)
- Medical
 - Genetic implications
 - QA for medical system
- Good Data
 - Public Health
 - Public Safety



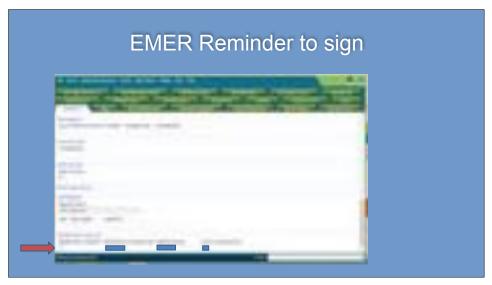
Electronic Reporting

- Prelaunch training
 - 6 GovDelivery Bulletins
 - 88 Training classes held in 22 different locations
 - 5 virtual training sessions
 - 383 (61%) ME/MEIs
 - 98 counties had at least one individual receive training
- Pre and Post launch online materials (IOSME website)
 - 24 online videos
 - User manual
 - 3 Quick reference guides

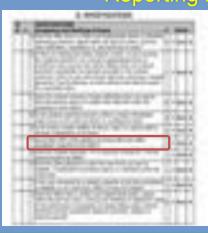








Reporting ME Deaths



Population 3.12 M

Deaths 30,527

Deaths reported 5,547 (18%)

Jurisdiction Definition:

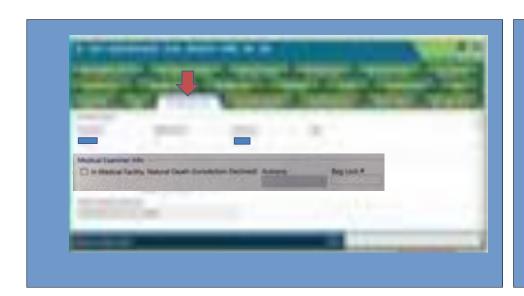
- The official power to make legal decisions and judgements
 - The geographic area over which authority extends

Jurisdiction

- 331.802 Deaths-reported and investigated
 - Submit report for deaths that affects public interest
 - Violent (homicidal, suicidal, accidental), thermal, chemical, electrical, radiation, criminal abortion, virulent, prison, jail, unclaimed, unknown identity, child under 2, terminal illness not seen by physician in past 30 d or hospice.
- Not ME Jurisdiction
 - In medical facility
 - Includes hospice
 - Dies only of natural disease

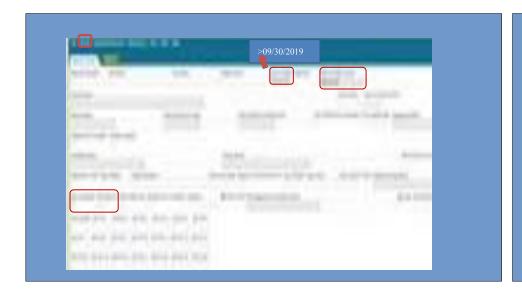
Jurisdiction Decline "JD"

- What is a JD case?
 - ME is reported a death that does not fulfill 331.802
 - Violent (homicidal, suicidal, accidental), thermal, chemical, electrical, radiation, criminal abortion, virulent, prison, jail, unclaimed, unknown identity, child under 2, terminal illness not seen by physician in past 30 d or hospice.
 - Patient in hospital or NH dies of natural disease
- What is done about a call that does not fulfill 331.802?
 - Allow Funeral Director to initiate record in IVES
 - Document in EMER as a JD
 - Limited ME investigation and documentation



Jurisdiction

- Why document "JD" cases
 - Helps with under reporting
 - Remember- Iowa 18 % reporting should be "at least 20%"
 - Documentation if death questioned
 - Documentation for compensation
- 🗶 "In medical facility, natural" (Jurisdiction Declined)







Autopsy Rates

- 2018: 1,499 autopsies/30,369 deaths (4.9%)
 - Recommended: 10%
- Factors determining autopsy rates
 - Reporting of cases to ME
 - Investigation
 - Rules and practice guidelines
 - Judgement
 - Resources

Autopsy

- NAME standards-
 - The forensic pathologist shall perform a forensic autopsy when:
 - the death is by apparent intoxication by alcohol, drugs, or poison, unless a significant interval has passed, and the medical findings and absence of trauma are well documented.
 - Interpretation
 - Prosecution
 - Sentinel novel drugs
- Genetic disorders- impact to living relatives (0-40's)
 - Anatomical
 - Molecular testing

Tissue Donation

- Continue to refer EVERY death to IDN
 - Protocols are continuously changing
 - Case referred for possible corneal donation
 - Efficiency of information reporting
- Transportation
 - If challenges in timely transpor
 - Ask to speak with Funeral Director donation specialists
- Identification tags on body (not clothing)



Future

- More powerful reporting capabilities
- GIS mapping
- Electronic Autopsy Reports
 - Reminder Families must request autopsy reports
 - No charge for families (paper)

Addressing Concerns

- Coverage and Budget
 - Cross jurisdictional (county) resource sharing
 - Experience
 - · Timeliness and quality of service
 - Reduce costs



Addressing Concerns

- Autopsy coverage
 - Expand service capability at IOSME
 - Review transportation



Accomplishments

- NAME accreditation
 - Annual November 2018
 - Accredited for 2nd of four year cycle
- Opioid Overdose Crisis Supplemental Federal Grant (IDPH)
 - Advanced reporting
 - GIS mapping
 - Freezers, label printers
- Improving the Timeliness and Quality of Drug Mortality Data and the Interoperability of State Electronic Registration
 - IVES portal and integration with IOSME Case Management App
 - Training for CME's and MEI's