

PulseNet/OutbreakNet Regional Meeting

High-Burden State Perspective

Hope Dishman, MPH and Stacy Reeves, PhD
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About Us

Laboratory

- 5 Laboratorians and 1 part time WGS
 - 1.5 dedicated to WGS
- PFGE, WGS, MALDI-TOF, Conventional microbiology testing
- WGS Instrumentation – 3 MiSeqs, and 1 QIAcube

Epidemiology

- 6 epis on various aspects of enteric diseases/outbreaks
- 3 part-time students on enteric disease interviews
- District epis conduct ~50% interviews
- CDC programs: FoodNet, OBNE

Prior to 2019

Laboratory

- Isolates/Specimens requested
- Conventional serotyping
- PFGE
- WGS (for select isolates)

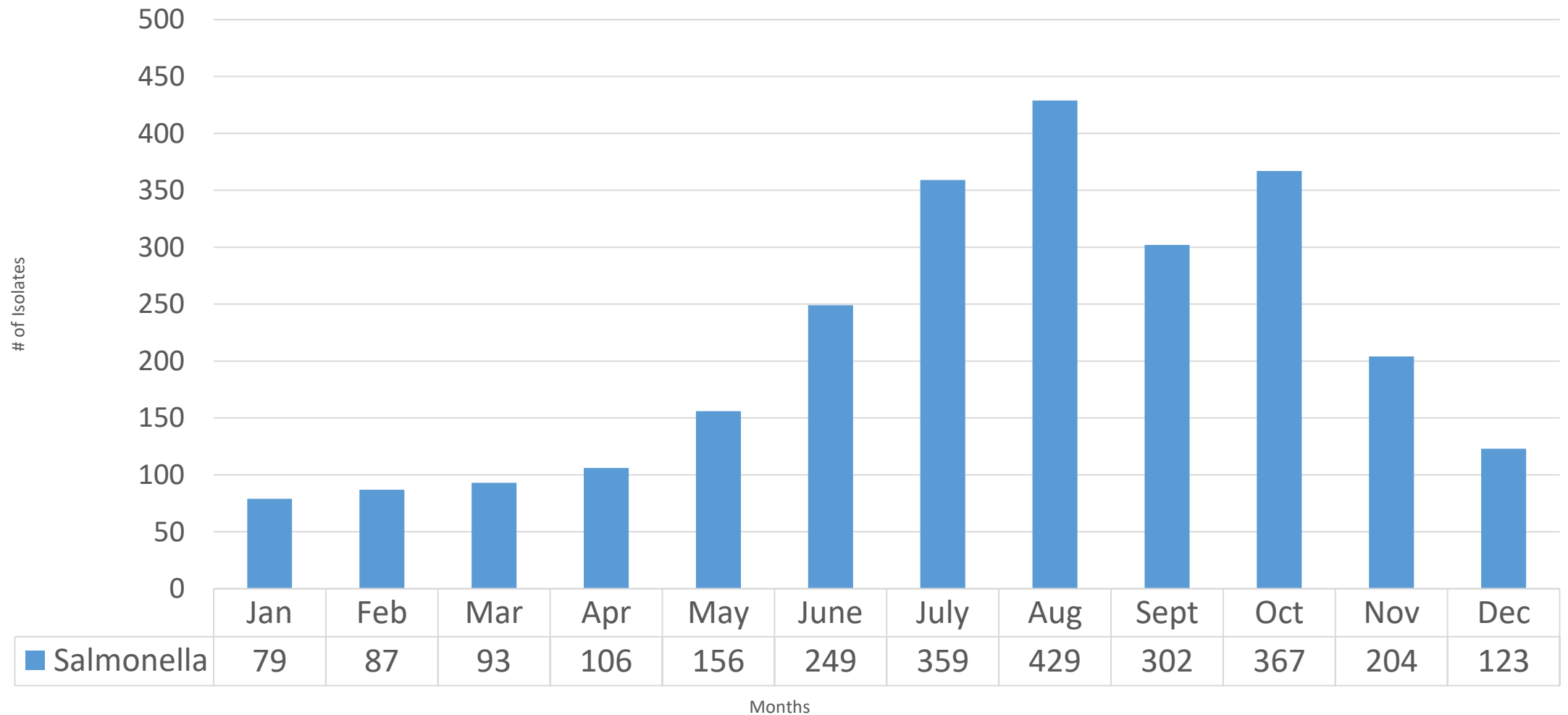
Epidemiology

- Cases reported within 7 days
- Random selection (60%) of cases interviewed (*Salmonella* specific)
- Interviews attempted within 7 days of selection

Collaboration

- Quarterly spreadsheets of interviewed cases from epi to lab
- Quarterly spreadsheets of outbreak cases from epi to lab
- Monthly spreadsheets of NARMS selected isolates from lab to epi
- Quarterly meetings

Salmonella Submissions (2018)



2018 Counts*

	Case Count	Specimens Received	Cases with Specimens/ Isolates Sent to State Lab	Interviewed	Sent to State Lab and Interviewed	Percent Funded for WGS
<i>Salmonella</i>	2907	2554	1880	1537	1064	50%
<i>Campylobacter</i>	1397	635	540	523	239	100%
<i>Shigella</i>	547	520	375	241	168	100%
STEC	480	372	297	328	231	100%
<i>Listeria</i>	31	24	24	19	16	100%

*Preliminary Data

Challenges

- Staffing
- WGS vs *Salmonella* Funding
 - 50% budget



2019 Plan of Action

Laboratory

- Specimens or isolates required
- WGS for all isolates associated with cases selected for interview (approx 40%)
- Conventional serotyping for all others
- WGS for any requested isolates

Epidemiology

- Cases reported within 7 days
- Interview selections every Monday and Thursday
- Cases attempted for interview within 7 days of selection

Collaborations

Electronic module in SendSS:

- Notifiable disease cases
- ELR data from GPHL
- Variables in notifiable disease cases (selected for interview, interviewed, outbreak)
- Sent to NARMS variable from ELR
- WGS ID for completed isolates

Questions?

