

# Public Meeting of The National Antimicrobial Resistance Monitoring System: Progress on the Strategic Plan September 21-22, 2022

## DAY 1

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12:00 PM – 5:00 PM

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**12:00 – 12:45 PM**     **Welcome**

12:00 – 12:15 PM     Welcome address – Dr. Robert Tauxe (CDC)

12:15 – 12:45 PM     Introduction and Meeting Agenda – Dr. Patrick McDermott (FDA)

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**12:45 PM – 1:15 PM**     **Keynote**

Summary of EU Efforts in One Health Antimicrobial Resistance Monitoring – Dr. Pierre Alexander Beloeil, European Food Safety Authority (EFSA)

**1:15 PM – 4:55 PM**     **Goal 1: Enhance Sampling for Foodborne Pathogens within A One Health Framework**

Moderator     Dr. Alison Franklin (EPA), Dr. Catherine Rockwell (USDA-FSIS)

**1:15 PM – 1:45 PM**     Objective 1.1: Enhance and maintain routine resistance monitoring in select pathogens causing illness in food-producing and companion animals.

1:15 PM – 1:30 PM     Vet-LIRN (FDA) – Dr. Greg Tyson (FDA)

1:30 PM – 1:45 PM     NAHLN (APHIS) – Dr. Christine Foxx (USDA-APHIS)

**1:45 PM – 3:00 PM**     Objective 1.2: Implement geographically representative monitoring including surface waters to establish baseline AMR data in aquatic ecosystems.

1:45 PM – 2:00 PM     The NARMS Surface Water Pilot Study – Dr. Jay Garland (EPA)

2:00 PM – 2:15 PM     Methods for Water Testing – Dr. Manan Sharma (USDA-ARS)

**2:15 PM – 2:25 PM**     **Break**

2:25 PM – 2:40 PM     Statistical Design of Water Surveillance – Dr. Mark Bagley (EPA)

2:40 PM – 2:55 PM     Status of Sampling and Analysis in Surface Water Monitoring – Dr. Alison Franklin (EPA)

2:55 PM – 3:10 PM     Update on National Wastewater Surveillance System – Dr. Amy Kirby (CDC)

3:10 PM – 3:25 PM	Next Steps – Dr. Jay Garland (EPA)
<b>3:25 PM – 3:50PM</b>	Q & A
<b>3:50 PM – 4:05 PM</b>	<u><i>Objective 1.3:</i></u> Initiate an AMR testing program for animal feed and pet food, including their ingredients, and share data in an integrated database and in NARMS reports.  Antimicrobial resistance in animal feed – Dr. Beilei Ge (FDA)
<b>4:05 PM – 4:40 PM</b>	<u><i>Objective 1.4:</i></u> Add routine testing of seafood products and imported foods and conduct pilots to explore other possible sources of resistant bacteria affecting health such as minor food-producing animal species, produce, and wildlife
4:05 PM – 4:20 PM	An update on seafood testing in NARMS – Dr. Heather Tate (FDA)
4:20 PM – 4:35 PM	Minor food animal species. A pilot survey of sheep, lamb, goats and siluriformes– Dr. Tameru Berhanu/Dr. Glenn Tillman (USDA-FSIS)
<b>4:35 PM – 4:55 PM</b>	Q & A
<b>4:55 PM – 5:00 PM</b>	Adjourn

## DAY 2

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**9:30 AM – 4:30 PM**

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**9:30 AM – 9:40 AM**      **Welcome and Review of Day 2 Agenda** – Dr. Patrick McDermott (FDA)

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**9:40 AM – 10:50 AM**      **Goal 2: Employ Advanced Technologies to Better Understand the Evolution and Spread of Resistance among Foodborne Pathogens**

Moderator      Dr. Jean Whichard (CDC)

**9:40 AM – 9:55 AM**      *Objective 2.3:* Develop metagenomic approaches to characterize the resistome of animals, humans, and environmental samples and to link resistance genes to their microbial source.

Metagenomic analysis of two Maryland watersheds – Dr. Andrea Ottesen (FDA)

**9:55 AM – 10:25 AM** *Objective 2.4:* Employ long-read DNA sequencing methods to establish a reference database of fully characterized strains and their plasmids.

Tracking resistance in plasmids – Dr. Lucas Harrison (FDA)

Harnessing long-read sequencing for plasmid and pangenome analysis  
– Dr. Hattie Webb/Dr. Kaitlin Tagg (CDC)

**10:25 AM – 10:50 AM** Q & A Goal 2

**10:50 AM – 11:00 AM** Break

**11:00 AM – 11:30 AM** **Goal 3: Improve Data Sharing, Communication and Collaboration: A roundtable discussion**

Moderator Dr. Mustafa Simmons (USDA-FSIS)

*Panel Discussion: NARMS is now able to provide data in a much timelier manner. This is made possible by rapid whole genome sequencing technologies and web-based tools to share and access the data. This empowers all stakeholders to view data at nearly the same time as the NARMS partner agencies. This advancement is the basis for Goal 3 in the NARMS Strategic Plan. How can we best present, access and discuss these data for response by all stakeholders for the good of public health? A panel discussion will explore this topic.*

**11:30 AM – 12:00 PM** **Goal 4: Conduct Research to Assess the Sources and Impacts of Resistance and the Effectiveness of Prevention Practices for Foodborne Pathogens**

Moderator Dr. Kimberly Cook (USDA-ARS)

*Panel Discussion: Goal 4 of the NARMS Strategic Plan emphasizes prevention. How can we better collaborate to understand prevention practices and their impact on resistance, conduct studies to assess risk factors for antimicrobial-resistant infections from different sources, and how might we respond to a trend of rising resistance to critically important antimicrobial agents. (S. Infantis is a recent example).*

**12:00 PM – 1:00 PM** Lunch

**1:00 PM – 2:30 PM** Stakeholder Presentations

Moderator Dr. Katherine Huebner (FDA)

- 1:00 PM – 1:15 PM A Consumer Advocacy Perspective – Steve Roach, Keep Antibiotics Working
- 1:15 PM – 1:30 PM Water Environmental Federation – Anna Mehrota, Director of the Wastewater Surveillance Program
- 1:30 PM – 1:45 PM Water Research Foundation - Lola Olabode, Program Director
- 1:45 PM – 2:00 PM American Veterinary Medical Association– Dr. Michael Costin
- 2:00 PM – 2:15 PM The National Institute of Antimicrobial Resistance Research and Education – Dr. Paul Plummer
- 2:15 PM – 2:30 PM** Q & A Stakeholders
- 2:30 PM – 2:40 PM** Break
- 2:40 PM – 3:40 PM** Stakeholder AMR Updates
- Moderator Dr. Chelsey Shively (USDA-APHIS)
- 2:40 PM – 2:55 PM National Chicken Council - Dr. Ashley Peterson
- 2:55 PM – 3:10 PM National Pork Producers - Dr. Heather Fowler
- 3:10 PM – 3:25 PM National Cattlemen’s Beef Association - Dr. Mandy Carr-Johnson
- 3:25 PM – 3:40 PM National Turkey Federation – Beth Johnson
- 3:40 PM – 4:15 PM** Public Commentary
- Moderator Dr. Patrick McDermott (FDA)
- 4:15 PM – 4:30 PM** Closing remarks and adjourn – Dr. Patrick McDermott (FDA)