Background Information Related to Options Review

Doug Owen
TWG Representative
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This Presentation

Objectives

Provisions

System compliance

Improvement

Background Information

Research

What We Believe We Can Address in Option Evaluation (from Jan meeting)

The number of systems that will be triggered into action based upon monitoring strategy (6-year review data) and other provisions

Cost Determination

1. **What systems will have to do when triggered into action (options and expert opinion)**
2. **What states will have to do to implement (ASDWA experts/ surveys)**
3. **The cost of the aggregate actions**
4. **Cost distribution across system types and household costs**

Benefit Determination

1. **Likelihood of finding *e.coli* under different monitoring schemes (6-year review data analysis)**
2. **Type and distribution of investigative and response activities, other than monitoring (analysis of Cost item 1)**
3. **Impact on state implementation (ASDWA experts/surveys)**

Cost Development Framework

10,000 simulations per category

Raw Data → **Occurrence Model** → **Simulation Model**

- *37 States Data*
- *61% of US systems*
- *32% of population*

- *Informed from Raw Data*
- *Estimates TC & EC % positive rates*
- *Provides input for baseline monitoring costs*

- *Predicts indicator and trigger rates by system type and size based on monitoring frequency*

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Investigative Costs → **Corrective Action Costs** → **National Costs**

- *Estimates cost and distribution of investigative actions*
- *Includes State actions and*

- *Estimates cost and distribution of corrective actions*
- *Includes State actions and*

- *Total national cost*
- *By system size and type*
- *Household cost*

Agenda for Meeting: Presentation II Current TCR Implementation

Today's Objective: Provide a baseline for current costs for monitoring.

- Compliance of systems by categories
- Baseline and reduced monitoring, as implemented by primacy agencies

Agenda for Meeting: Presentation II Current TCR Implementation

- Presentation includes:
  - Number and percent of non-acute and acute violations
  - Baseline, repeat, and follow-up monitoring costs
- Presentation does *not* yet include:
  - Public notification costs
  - Voluntary actions taken by systems to assess and correct problems

Agenda for Meeting: Presentation III
Baseline and Reduced Monitoring Variations

Today's Objective: Provide an estimate of the impact of varying baseline monitoring provisions on monitoring costs.

Agenda for Meeting: Presentation III
Baseline and Reduced Monitoring Variations

- Presentation includes:
  - Costs of conducting baseline monitoring under current rule as implemented and four additional variations, with and without reduced monitoring
- Presentation does *not* yet include:
  - Incidence of TC and EC positives under different monitoring scenarios
  - Costs for repeat/follow-up monitoring that would result from positives
  - Predicted actions to be taken by systems and states under different provisions

Agenda for Meeting: Presentation IV
Assessment/Corrective Action Variations

Today's Objective: Provide an estimate of the sensitivity in costs for different trigger approaches as it affects assessments and corrective actions

- Uses fixed number of systems triggered at different levels calculated from 6-year review database (based on current monitoring scenario)

Agenda for Meeting: Presentation IV Assessment/Corrective Action Variations

- Includes assessment costs for five different trigger approaches
- Does *not* include costs for corrective actions
  - Presents a summary of TWG work to date on identifying the types of actions that might occur

Agenda for Meeting: Additional Discussion

- Other proposed rule provisions not yet discussed in detail
  - Provisions for transition from current TCR to new rule
  - Are provisions helping target systems that need attention?
  - Timing for starting and completing an assessment and corrective actions
  - Seasonal systems
  - Other?

Agenda for Meeting: Presentation V

- Priorities for research and information collection
  - Results of TWG analysis applying criteria to gaps to develop preliminary priorities
- Discussion of mechanisms for implementing the recommendations