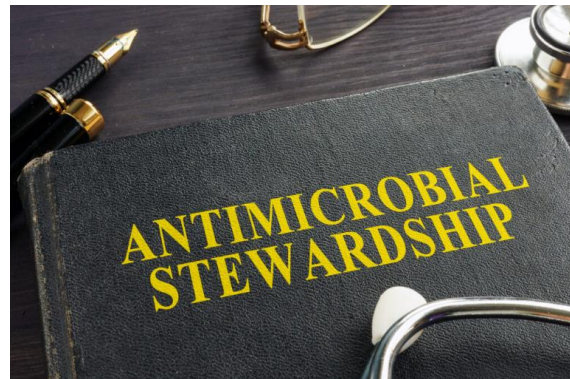


# Principles of Antimicrobial Stewardship (AS) and the New Jersey Department of Health's Antimicrobial Stewardship Recognition Program (ASRP) -Outpatient Settings: Bronze, Silver, and Gold Levels-

New Jersey Department of Health – Communicable Disease Service

Paul W. Fotiou, PharmD

Gargi Patel, PharmD



# Background

- Antimicrobial Stewardship (AS)
  - A rationale, systematic commitment to the appropriate and safe use of antimicrobials
- Antimicrobial Resistance (AR) is a global threat
- There were 1.27 million people killed worldwide and 5 million associated deaths in 2019
- U.S. - 2.8 million antimicrobial-resistant infections and more than 35,000 deaths annually
- *Clostridioides difficile* is a complicating factor...
  - Associated with antimicrobial use
  - Adds to US toll and burden
  - Excess of 3 million cases and 48,000 deaths



<https://www.cdc.gov/drugresistance/about.html>

# Centers for Disease Control and Prevention (CDC) Antimicrobial Stewardship Core Elements (CE)

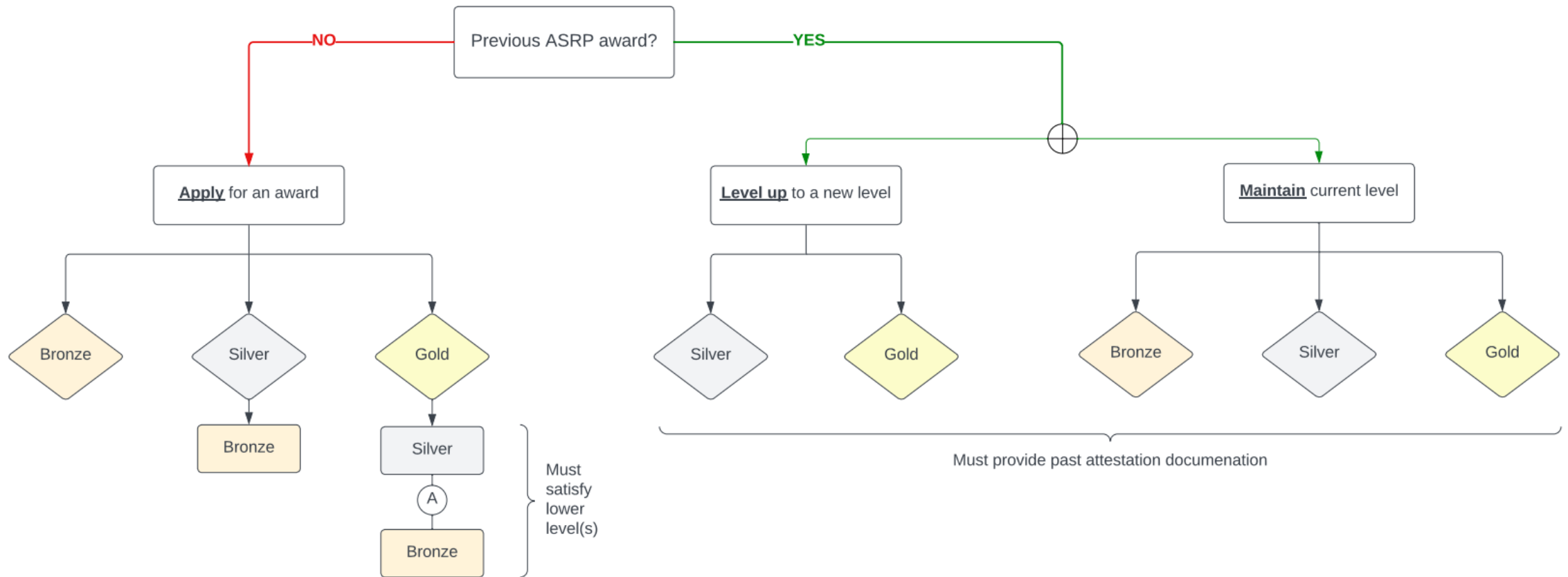
- Leadership
- Accountability
- Drug Expertise
- Action
- Tracking
- Reporting
- Education
- Related items: more formal development of Antimicrobial Stewardship Programs (ASP) in 2014, NJ Department of Health Antimicrobial Stewardship Recognition Program (ASRP) began in 2019, and updates continue to evolve

<https://www.cdc.gov/antibiotic-use/core-elements/index.html>

# Core Elements (CE), Practice Settings, and the Antimicrobial Stewardship Recognition Program (ASRP)

- Acute Care (hospitals, long-term acute care settings)
- Post-Acute Care (long-term care facilities, nursing homes)
- Outpatient (physician offices, clinics, urgent care centers, networks, or independent settings)
- ASRP
  - Three award levels (Bronze, Silver, Gold)
  - New applicants/applications (may apply at any level; must meet all criteria of award level sought and preceding levels)
  - Previous applicants (may remain at current/previous level and provide letter of attestation, with no lapses in award status)
  - Level-up (Upgrade) applicants (must meet criteria requirements of newly sought level only and provide letter of attestation of current/previous level, with no lapses in award status)

# Antimicrobial Stewardship Recognition Process (ASRP) Application Process



# Core Element 1 - Leadership

## Bronze

- Antimicrobial Stewardship Program (ASP) leader devotes time and makes a commitment to ASP activities
- Includes letter, memo, or job description activities to that effect
- ASP communication documentation (internal or external)

## Silver

- Healthcare facility leadership commitment to dedicated ASP activities + inclusion of such activities in the job description of one or more ASP leader(s)

## Gold

- There are ASP designated finances beyond staffing, which are specifically allocated for ASP activities

# Core Element 2 - Action

## Bronze

- Practices are implemented to improve prescribing (diagnostic criteria and treatment recommendations or delayed prescribing practices)

## Silver

- Triage system (hotline) is in place with nursing/pharmacist consultations to avoid unnecessary visits and advertised accordingly via webpage, brochure, or flyer

## Gold

- Communication skills training for at least one attending physician, with documentation provided

# Core Element 3 – Tracking and Reporting

## Bronze

- Antimicrobial orders are tracked and reported, including the drug, dose, duration, and diagnosis (indication) for treatment

## Silver

- Reports are generated that show the percentage of visits that resulted in the issuance of antimicrobial prescriptions (Rx)

## Gold

- Leadership has distributed a facility-specific antibiogram to prescribers in previous year



# Core Element 4 – Education and Expertise

## Bronze

- Providers have received continuing education about Antimicrobial Stewardship (AS) and/or adverse drug reactions (ADR) related to unnecessary antimicrobial use

## Silver

- ASP leader provides education to prescribers, nurses, or other clinical staff on topics related to optimal antimicrobial prescribing, adverse drug reactions (ADR), and antimicrobial resistance (AR), with documentation provided

## Gold

- Facility has timely access to a clinician with AS knowledge and expertise

# Antimicrobial Stewardship (AS) References and Toolkits

- Centers for Disease Control and Prevention (CDC) Core Elements - All Settings
  - <https://www.cdc.gov/antibiotic-use/core-elements/index.html>
- Agency for Healthcare Research and Quality (AHRQ) – All Settings
  - <https://www.ahrq.gov/antibiotic-use/index.html>
- Minnesota Department of Health – All Settings
  - <https://www.health.state.mn.us/diseases/antibioticresistance/hcp/asp/index.html>

# New Jersey Department of Health – Communicable Disease Service References/Contacts

- Website:
- <https://www.nj.gov/health/cds>
- Healthcare-associated Infections/Antimicrobial Resistance (HAI/AR) Unit
  - Antimicrobial Stewardship (AS) Section:
    - Paul Fotiou, PharmD/Antimicrobial Stewardship Coordinator
    - Gargi Patel, PharmD/Infectious Disease Pharmacist
    - Contact: [abxaware@doh.nj.gov](mailto:abxaware@doh.nj.gov)
  - Antimicrobial Stewardship Recognition Program:
    - [https://www.nj.gov/health/cd/edu\\_training/ASP/asp\\_recognition.shtml](https://www.nj.gov/health/cd/edu_training/ASP/asp_recognition.shtml)