EVIDENCE SUMMARY

Prevent Healthcare-Associated Infections

WHAT IS CDC’S 6|18 INITIATIVE?

The CDC is partnering with health care purchasers, payers, and providers to improve health and control health care costs. CDC provides these partners with rigorous evidence about high-burden health conditions and associated interventions to inform their decisions to have the greatest health and cost impact. This initiative aligns evidence-based preventive practices with emerging value-based payment and delivery models.

PROPOSED PAYER INTERVENTION

Require antibiotic stewardship programs in all hospitals and skilled nursing facilities.

WHO’S AT RISK?

At least 2 million illnesses and 23,000 deaths can be attributed each year to antibiotic-resistant infections. Nearly 900,000 cases of antibiotic-resistant infections were reported in 2010. Preliminary 2014 data suggest more than 40% of U.S. acute care hospitals have antibiotic stewardship programs that incorporate the CDC Core Elements for Hospital Antibiotic Stewardship Programs.¹

OPPORTUNITIES FOR PAYERS AND PROVIDERS

Continue work with CMS to expand conditions of participation to assure antibiotic stewardship programs in a broader range of health care settings.

KEY HEALTH AND COST EVIDENCE MESSAGES FOR PAYERS AND PROVIDERS

Payers can promote the adoption of antibiotic guidelines that restrict widespread broad-spectrum use. Pharmacists and infectious disease staff can recommend discontinuing antibiotics or provide alternatives to prescribers. This can decrease antibiotic resistance and significantly reduce deadly diarrheal infections.
CURRENT PAYER COVERAGE (AS OF AUGUST 2015)

**MEDICARE**

- Proposed revision of Conditions of Participation to require antibiotic stewardship programs for long-term care and acute care settings aligning with CDC’s Core Elements of Antibiotic Stewardship Programs.

**MEDICAID**

- Proposed revision of Conditions of Participation to require antibiotic stewardship programs for long-term care and acute care settings aligning with CDC’s Core Elements of Antibiotic Stewardship Programs.

**COMMERCIAL/PRIVATE**

- Not required.
- Anthem, Blue Cross (CA): Quality-In-Sights®, Hospital Incentive Program (Q-HIP®), national hospital quality and value-based payment initiative, intended rollout in 2016.

SUPPORTING HEALTH AND COST EVIDENCE: SCIENCE BEHIND THE ISSUE

A study implementing the CDC Antibiotic Stewardship Guidelines resulted in 25% of antimicrobial orders being modified (86% resulted in less-expensive therapy, and 47% resulted in use of a drug with a narrower spectrum of activity), significantly increasing microbiologically based prescribing (63% vs. 27%). Stepwise implementation of an antimicrobial stewardship program demonstrated progressive decreases in antimicrobial consumption and savings of $913,236 over 18 months.2

A study of an intervention that led Canadian medical trainees to implement CDC-recommended antibiotic “time outs” reduced antibiotic costs on the unit from $149,743 (Canadian dollars) (January 2011 to January 2012) to $80,319 (January 2012 to January 2013), for a savings of $69,424 (46% reduction).3

A pharmacist records review of inpatients who were prescribed two or more antibiotics in order to identify redundant combinations identified 70% of combinations investigated were inappropriate. The pharmacist-stewardship intervention was projected to have saved $10,800 and 584 days of reduction in antibiotic combination days.4

REFERENCES