

# The end of antibiotics?

Imagine a world without antibiotics. Where even a small cut could prove life-threatening, let alone a routine medical procedure. That future may not be far off. How can hospitals change this outcome with antibiotic stewardship?

## The end of antibiotics

**2 million**

People in the U.S. become infected annually with bacteria that are resistant to antibiotics



**~23,000**

People die each year as a direct result of drug-resistant infections



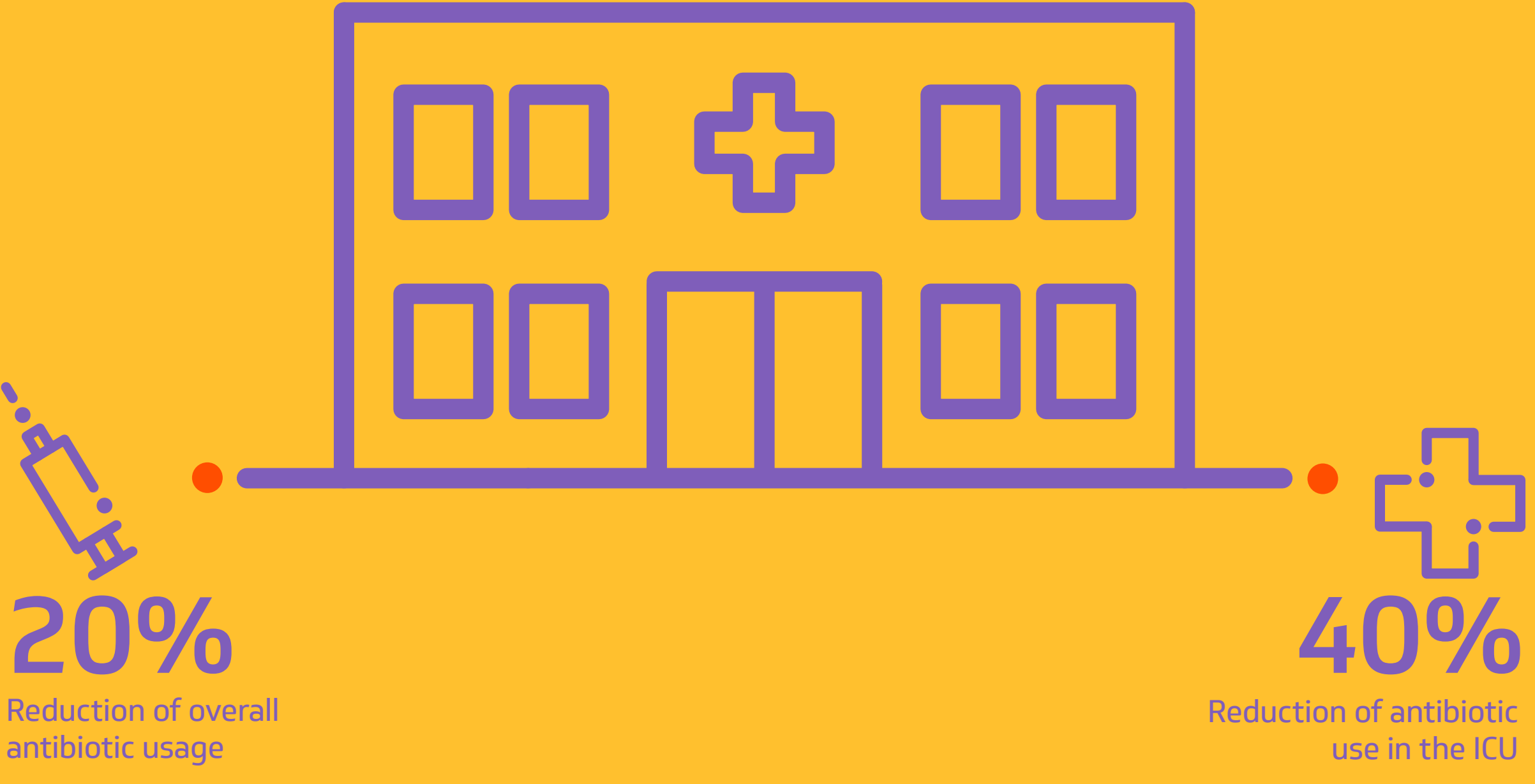
**30%**

Of antibiotics prescribed in the United States are unnecessary. Overuse of antibiotics promotes antibiotics resistance

## The end of antibiotics

### Hospitals are the first line of defense

Hospitals with effective stewardship programs can reduce overall antibiotic use



## The end of antibiotics

### Are hospitals on track to better control antibiotic use?

The Center for Disease Control (CDC) has identified 7 Core Elements of Effective Hospital ASPs.



## The end of antibiotics

### Where gaps exist



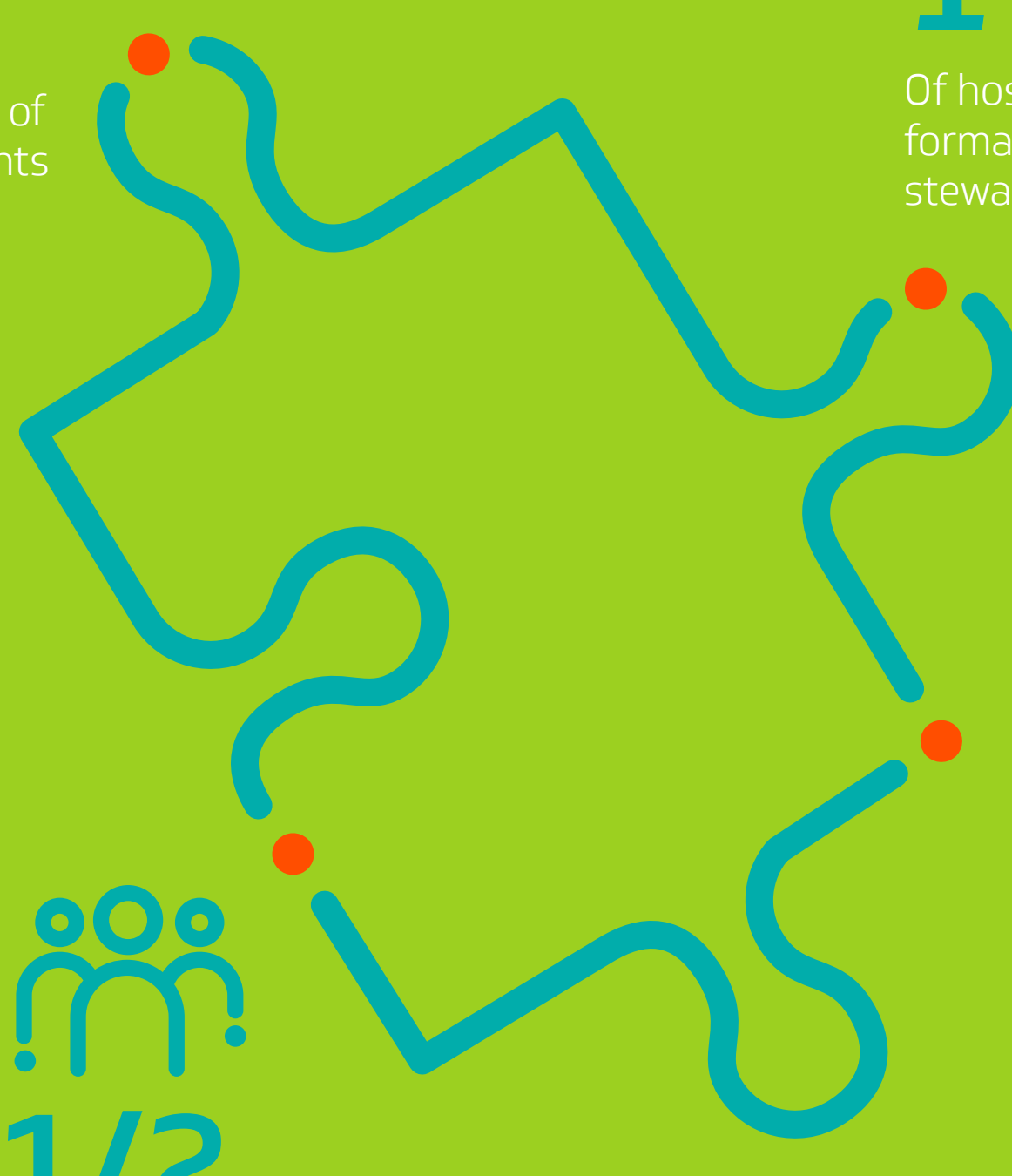
**1/3**

Of hospitals have implemented all 7 of CDC's Core Elements



**17%**

Of hospitals have no formal antibiotic stewardship program



**1/2**

Of all antibiotic stewardship programs do not have formal support from hospital leadership



**25%**

Conduct an antibiotic time out routinely

## The end of antibiotics

### Factors influencing antibiotic stewardship

**50%**



Of top performing hospitals have programs that have been in place over 7 years

**89%**



Of high performing ASPs provided formal infectious disease training to hospital staff

**76%**



Of high performing ASPs compensated physicians for participating

**82%**



Of high performing hospitals were a part of a health system

“Antibiotics are lifesaving drugs, and if we continue down the road of inappropriate use we’ll lose the most powerful tool we have to fight life-threatening infections.” - CDC

Sources:

• <https://www.cdc.gov/getsmart/healthcare/index.html>

• <https://www.cdc.gov/drugresistance/>

• <https://www.ncbi.nlm.nih.gov/pubmed/27246783>

• Bernard S, Pakyz A, Kuper K, Nguyen N, Lee K, Stevens M. "How ready are hospitals to meet the CMS antibiotic stewardship requirements?"

• Poster presented at: IDWeek; 2016 Oct 26-30; New Orleans, LA.