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**Redfield Community Antibiotic Stewardship
Project**

"Partners in Prevention"

Redfield Community Antibiotic Stewardship Program

Estimated minimum number of illnesses and deaths caused annually by antibiotic resistance*:

At least  **2,049,442** illnesses,
 **23,000** deaths

**bacteria and fungus included in this report*

Redfield—What is Different?

- Could develop more unified approach
 - Hospital
 - Clinic
 - Retail Pharmacy
 - 2 Nursing Homes
 - South Dakota Developmental Center
 - Is our antibiogram the same?
-

Take Aways:

1. Wanted to improve Cipro Susceptibility in regards to E. Coli
2. Kleb. Pneumoniae was much more susceptible to cephalosporins
3. Rate of Pseudomonas in our community is much lower
4. Pseudomonas much more susceptible to fluoroquinolones & cephalosporins

Redfield Antibigram

Were we dealing with different issues than our neighbors?

Program Components

Pharmacy Clinician

1. **Hospital use/duration/diagnosis**
2. **Each facility data monthly**
3. **Retail pharmacy data weekly**
4. **Susceptibility data monthly**

- **Community**
- **Co...**
- **P/T...**
- **Key Contact for other facilities**
- **Data compilation**

Culture Change

- **Medical Staff education**
- **Unique “capture all” approach**
- **Locum education**
- **Community facility buy-in**
- **Community presentation**
- **Results meetings**
- **Press release**
- **“On Call” ID provider**

What did we see?

Successes

Last Quarter of Project Year (Apr-June 2015):

- ✓ ↑ suscept. E. Coli
- ✓ *Graphs to follow*

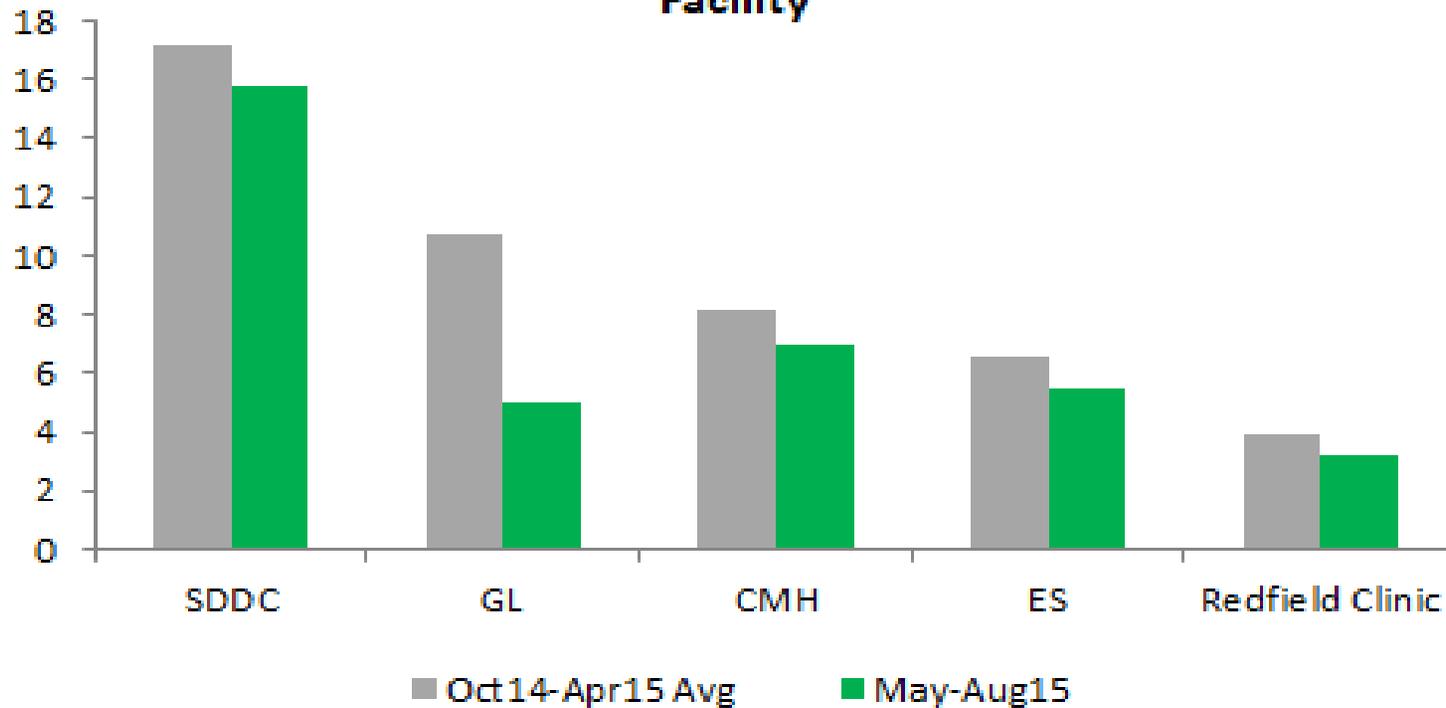
End of Project Year Results:

- ✓ **21%** ↓ patient **charges**
- ✓ **53%** ↓ pharmacy **costs**
- ✓ **40%** ↓ overall **use**
- ✓ **59%** ↓ broad spectrum orals
- ✓ **41%** ↓ **levofloxacin** retail setting
- ✓ **10%** ↑ MRSA **suscept.**

Barriers

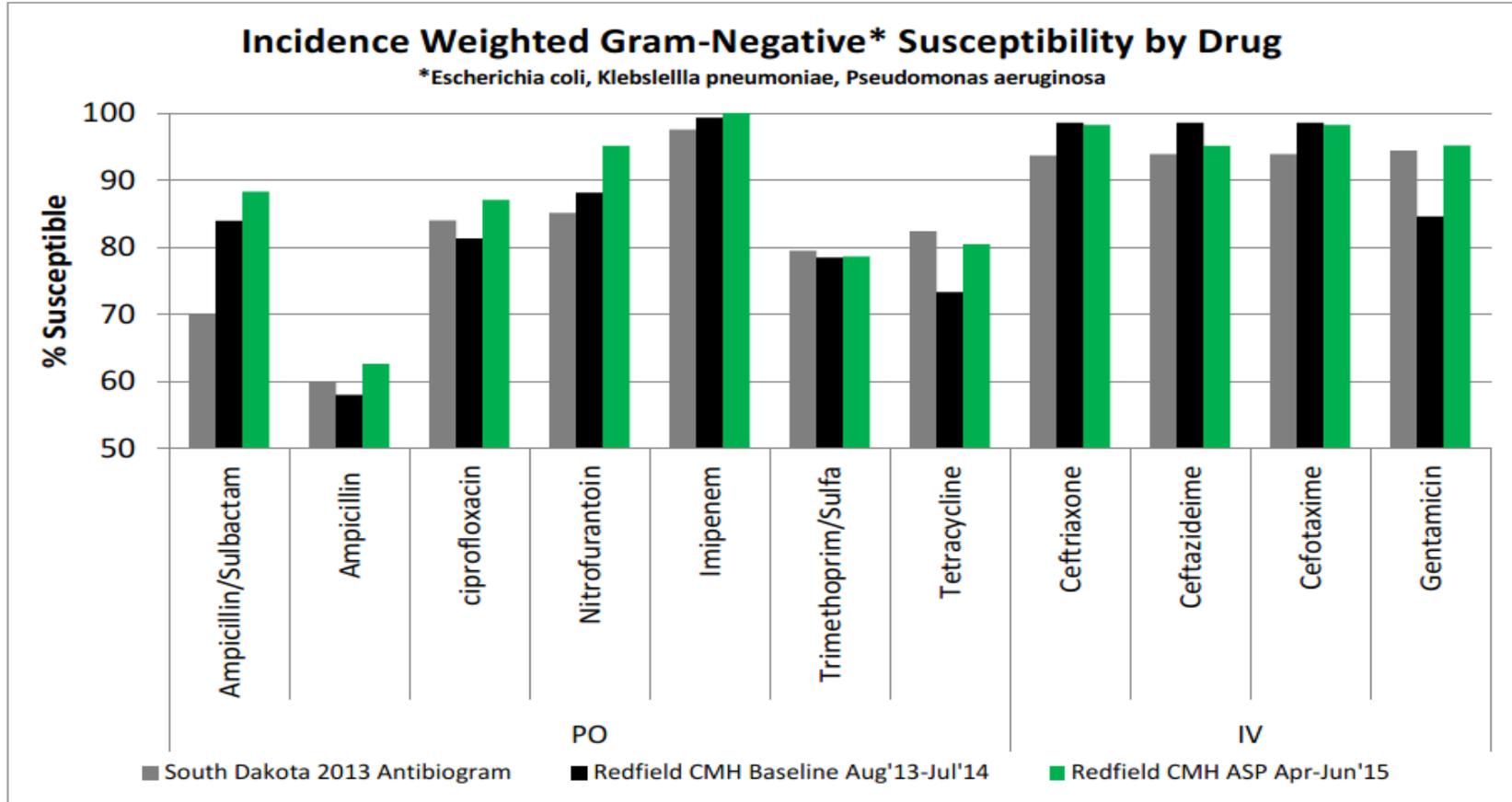
- Community specific antibiogram
 - *Avera St. Luke's*
- Buy-In
 - *Education & physician champion*
- Locum coverage
 - *Education*
- "Non-significant" data
 - *Culture change within community*

Avg Antibiotic Incidents of Therapy/Month by Redfield Facility



Did things really change?

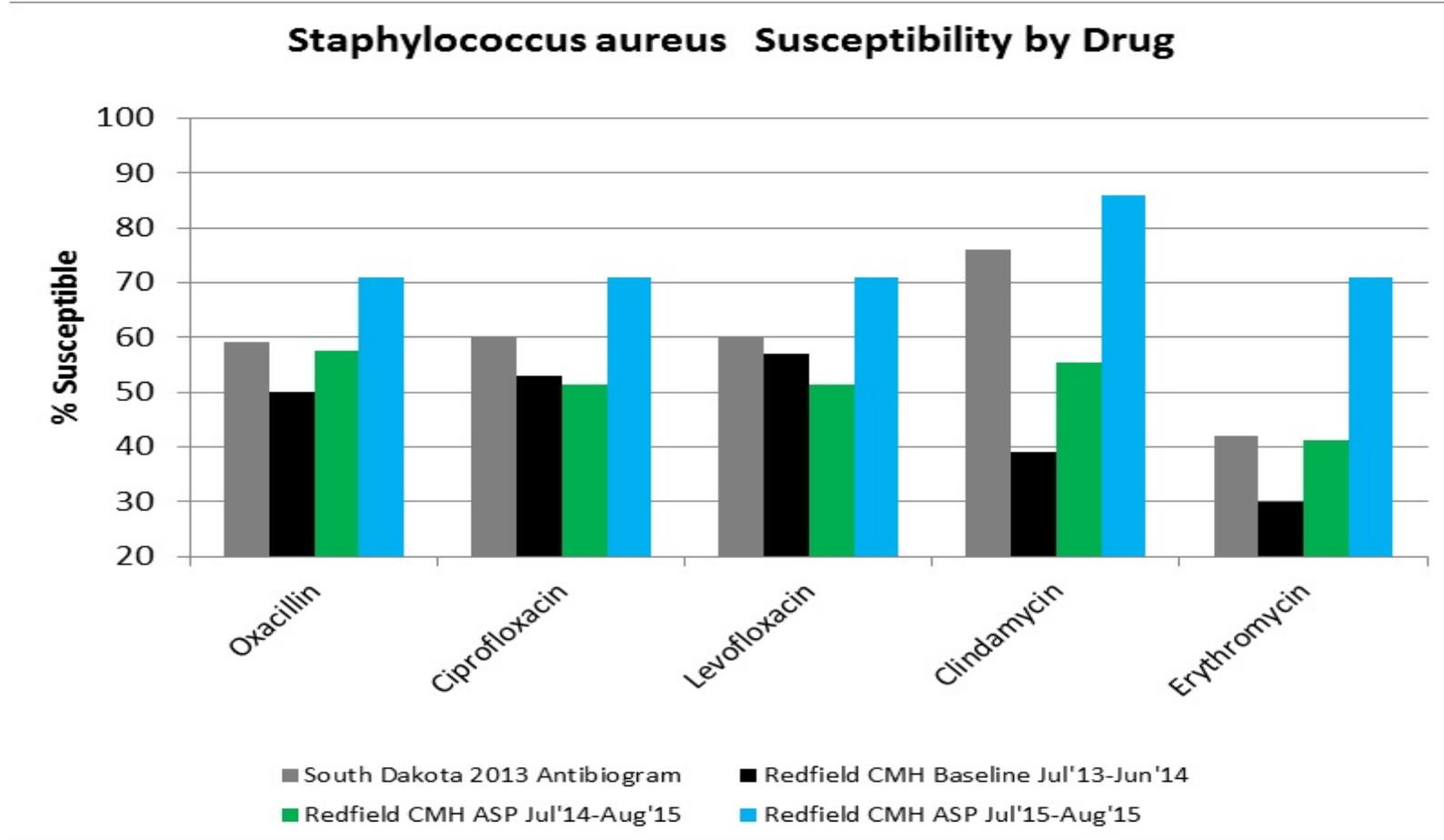
All facilities saw a decrease in antibiotic prescribing.



Gram-Negative Susceptibilities

2013 SD Antibigram vs. CMH baseline year vs. CMH final quarter project year

>Staphylococcus aureus



Staph. Aureus Susceptibility

2013 SD Antibigram **vs.** CMH baseline year **vs.** CMH project year
vs. CMH final project quarter



"Partners in Prevention"

Antibiotic Stewardship Culture Change in a Small Community

Thank you!

Questions?