

Community-acquired Pneumonia: Short and To the Point!

A Focus on Optimal Length of Therapy

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Shorter is Better



*Except when it comes to ID pharmacists, everyone is perfect just the way they are!

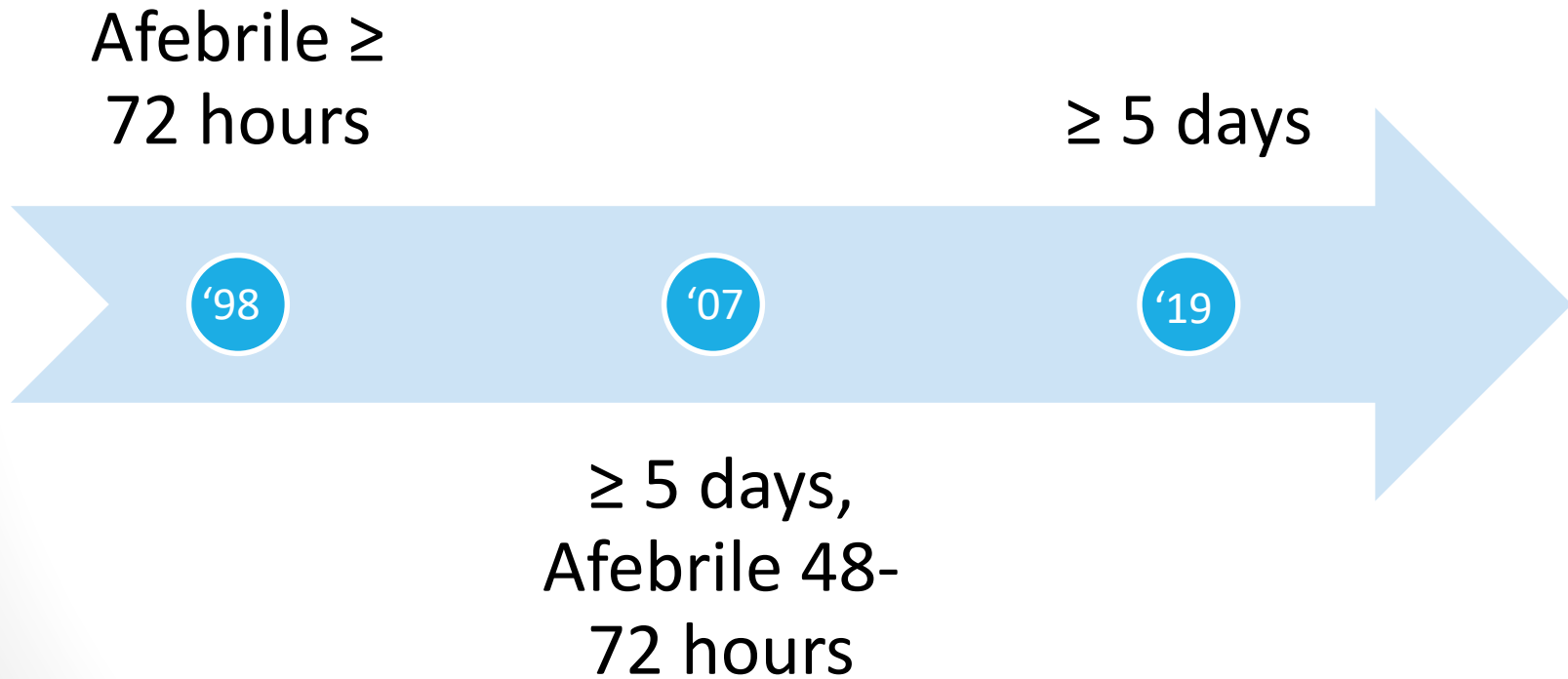
Shorter is Better



Shorter is Better



The History of CAP Treatment



How long should we treat CAP?

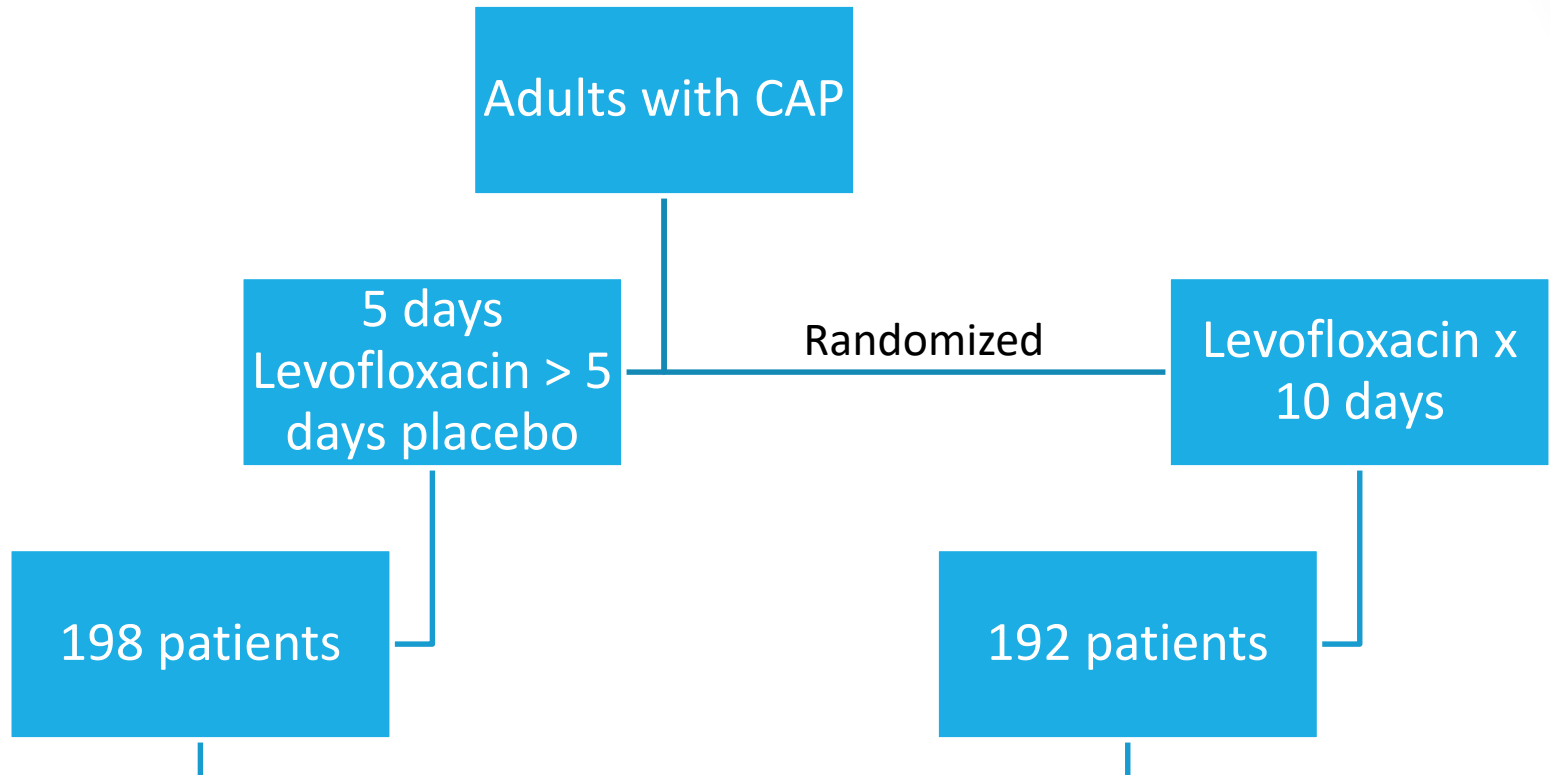
IDSA/ATS Guidelines: at least 5 days

Applies to patients who achieve clinical stability

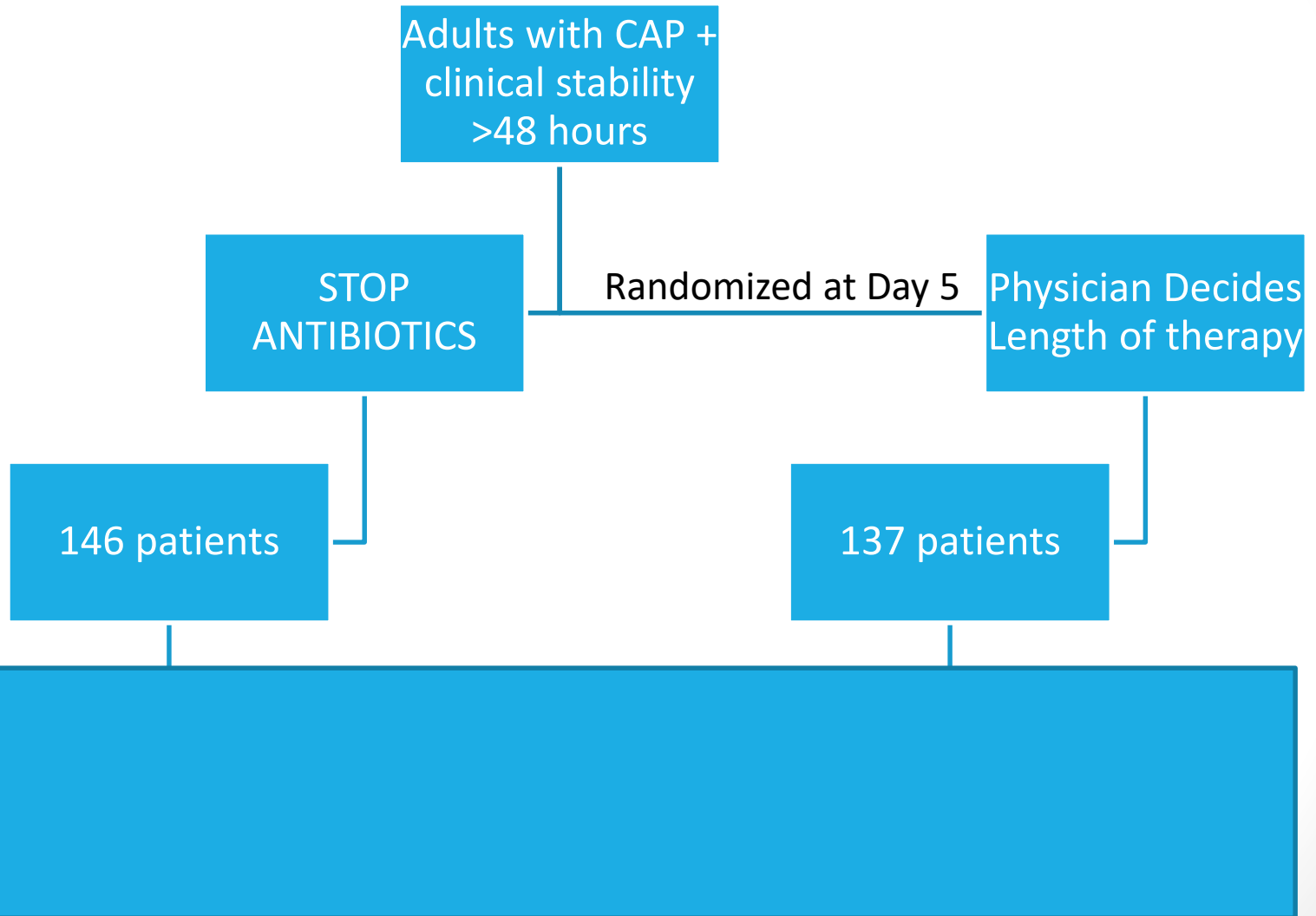
- Normal vital signs
- Eating
- Normal mental status

Continue until patient reaches clinical stability

What's the Evidence?



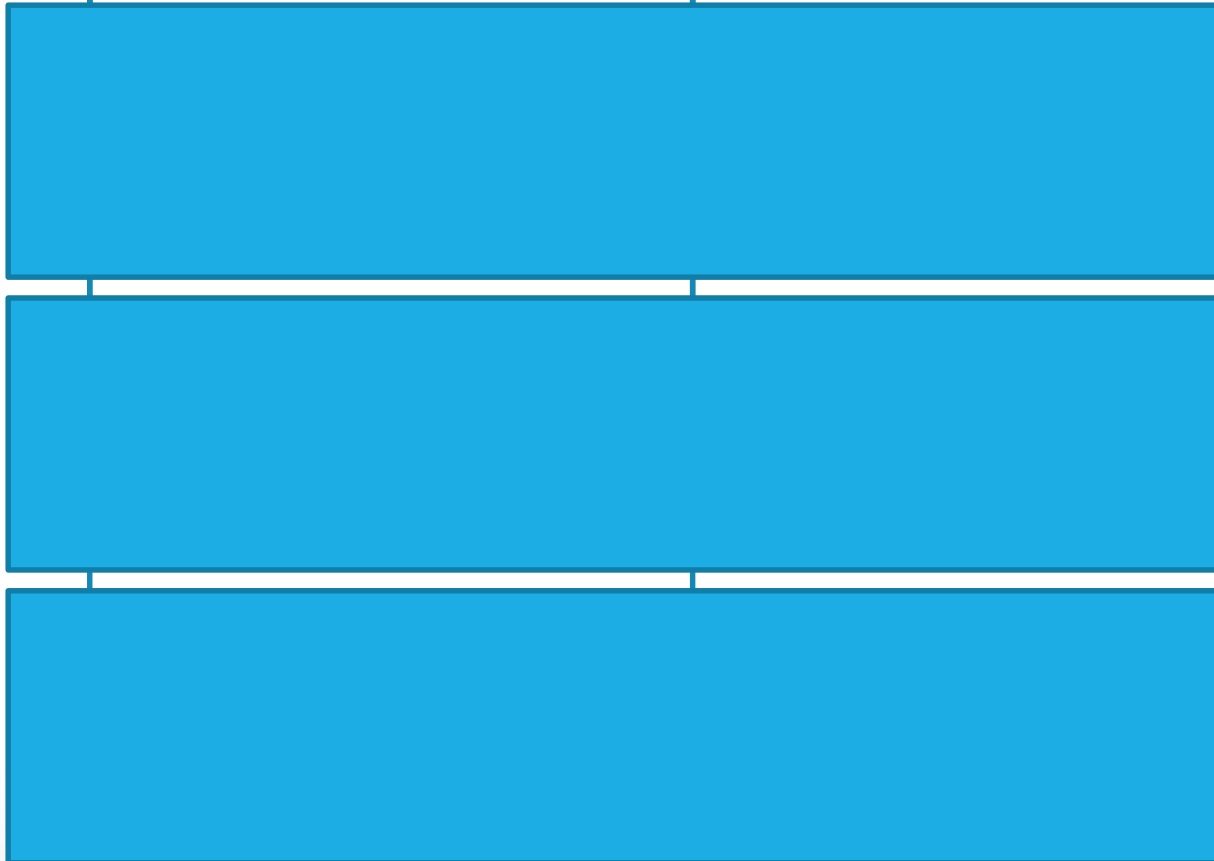
What's the Evidence?



What's the Evidence?

5 Days

10 Days



Who Wasn't Studied?

Immunocompromised

Pseudomonas
infection risk

Need for chest tube

Pregnancy +
Breastfeeding

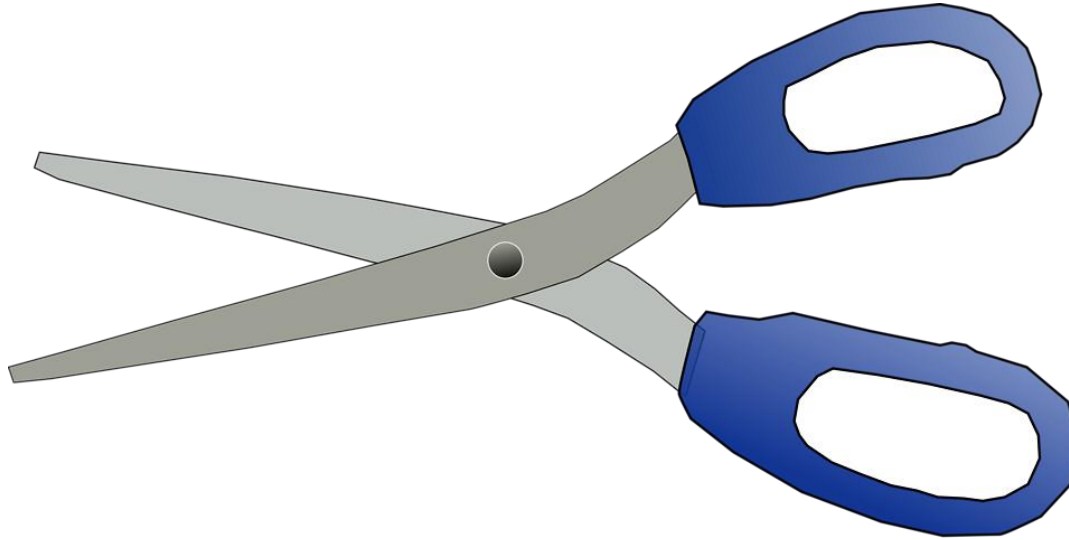
Previously failed other
antibiotics

Other site of infection

Key Takeaway

5 Days of antibiotics is
as effective as longer
courses

Is Even Shorter Better?



3 Days?

Maybe

What Happens in Practice?

Yi SM et al 2018

Vaughn VM et al 2019

Whitman CW et al 2022

Yi SM et al 2018

Retrospective

- Patients ≥ 18 years old hospitalized with CAP across >3000 hospitals from 2012-2013
- Reviewed based on ICD-10 codes

Design

Key Results

Vaughn VM 2019

Retrospective

- Patients ≥ 18 years old hospitalized with CAP across 43 hospitals in Michigan
- Reviewed based on ICD-10 codes

Design

Key Results

Whitman CW 2022

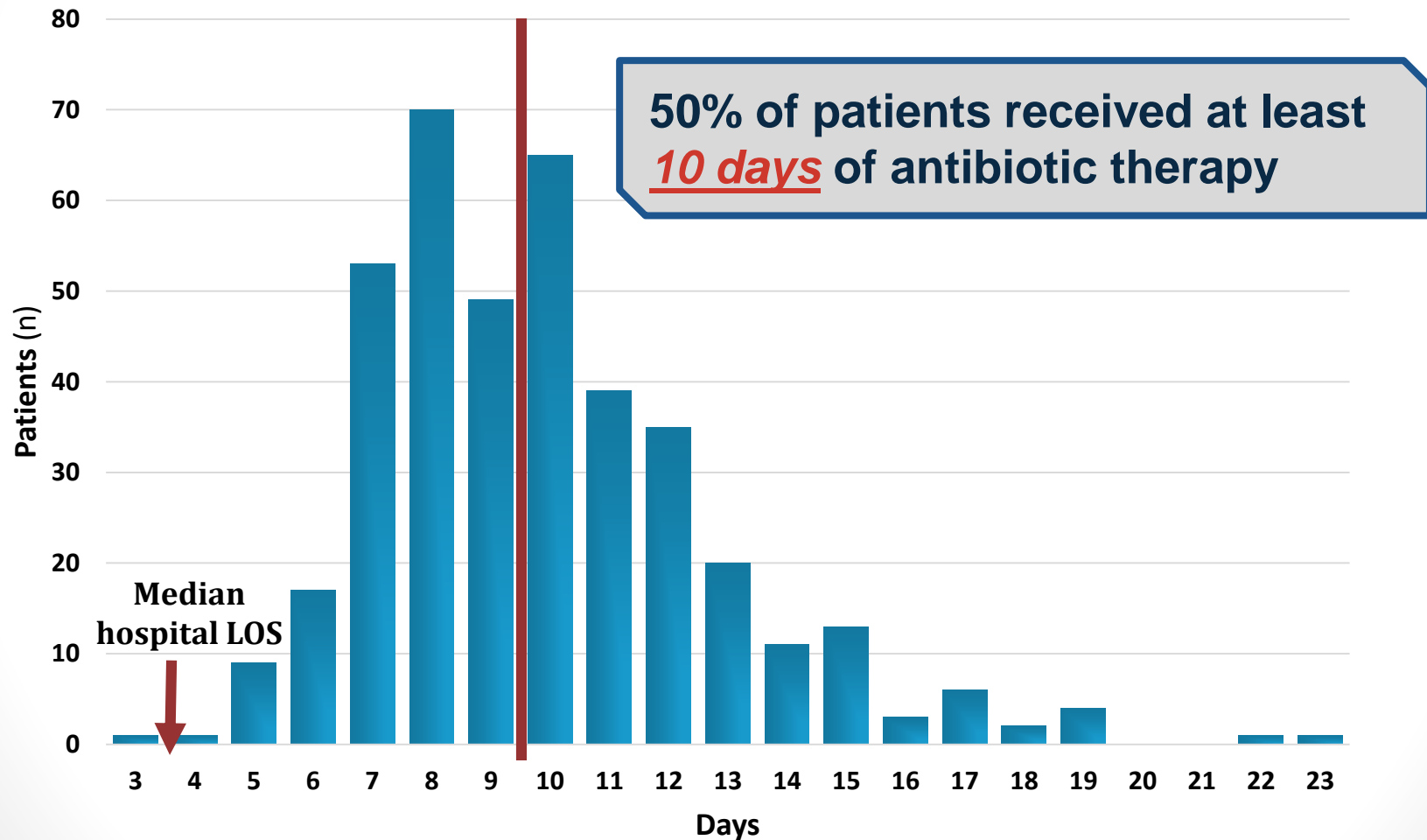
Retrospective

- Patients ≥ 18 years old hospitalized with CAP at Norton Health care
- Reviewed based on ICD-10 codes

Design

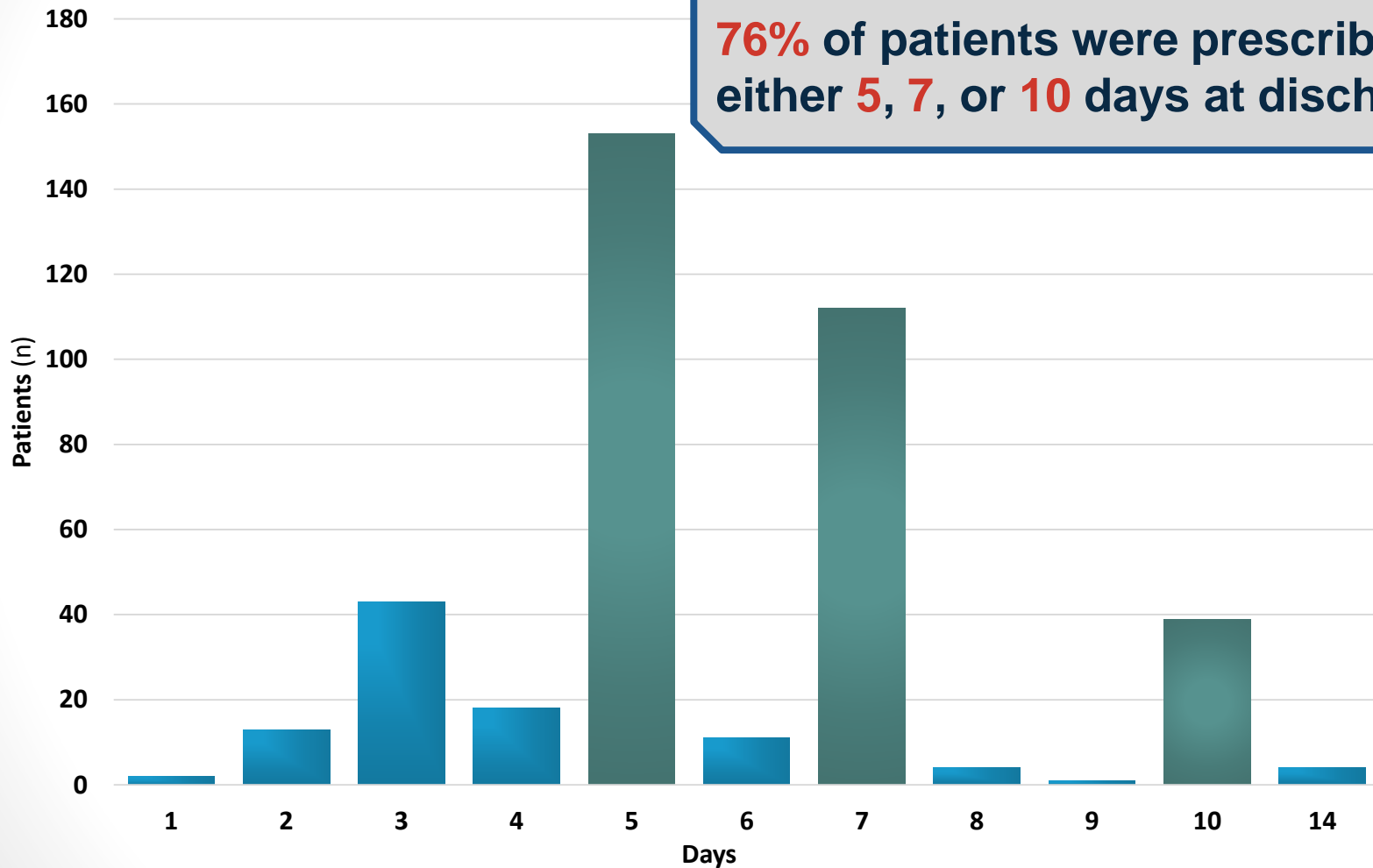
Key Results

Whitman CW 2019



Whitman CW 2019

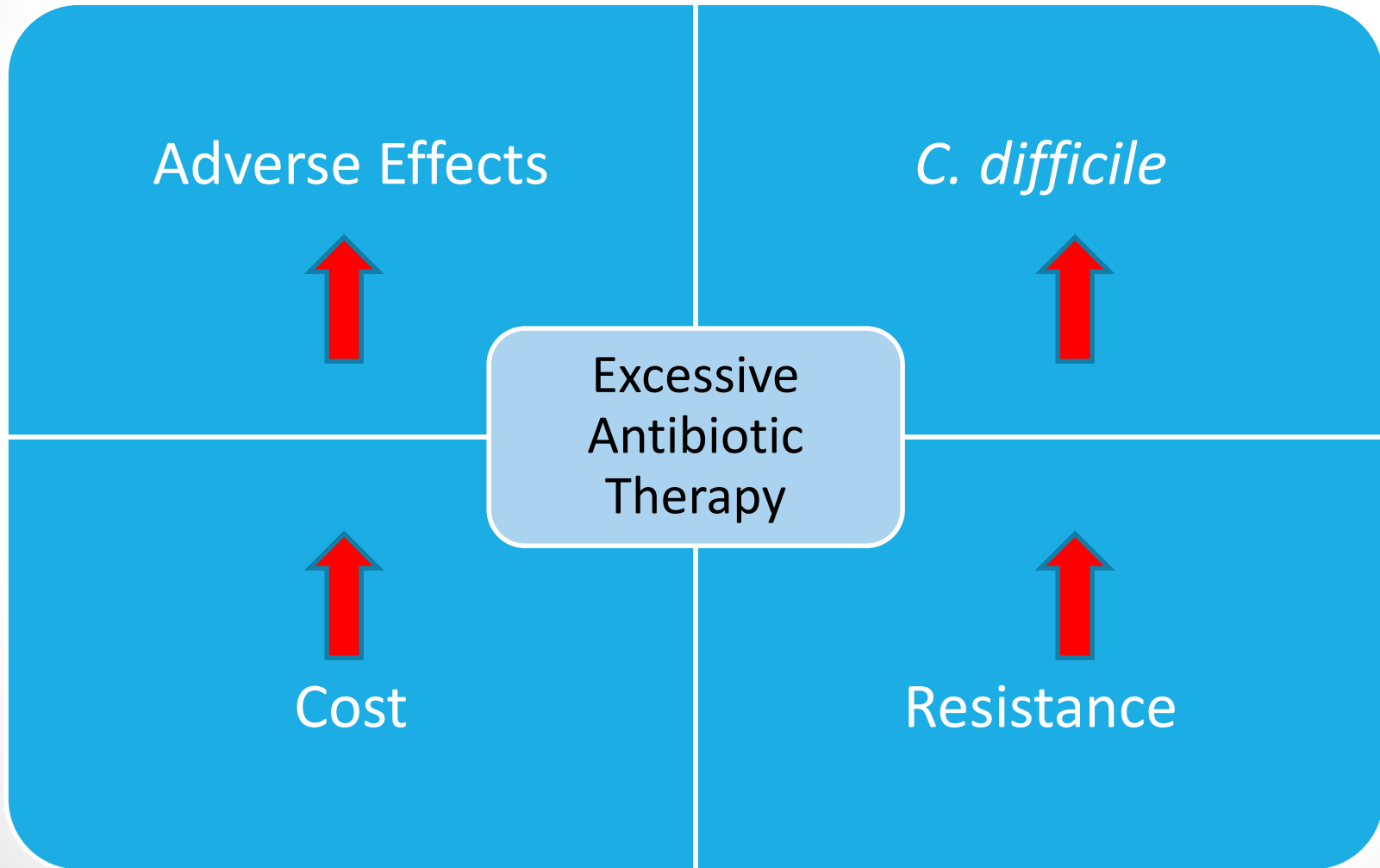
76% of patients were prescribed either **5**, **7**, or **10** days at discharge



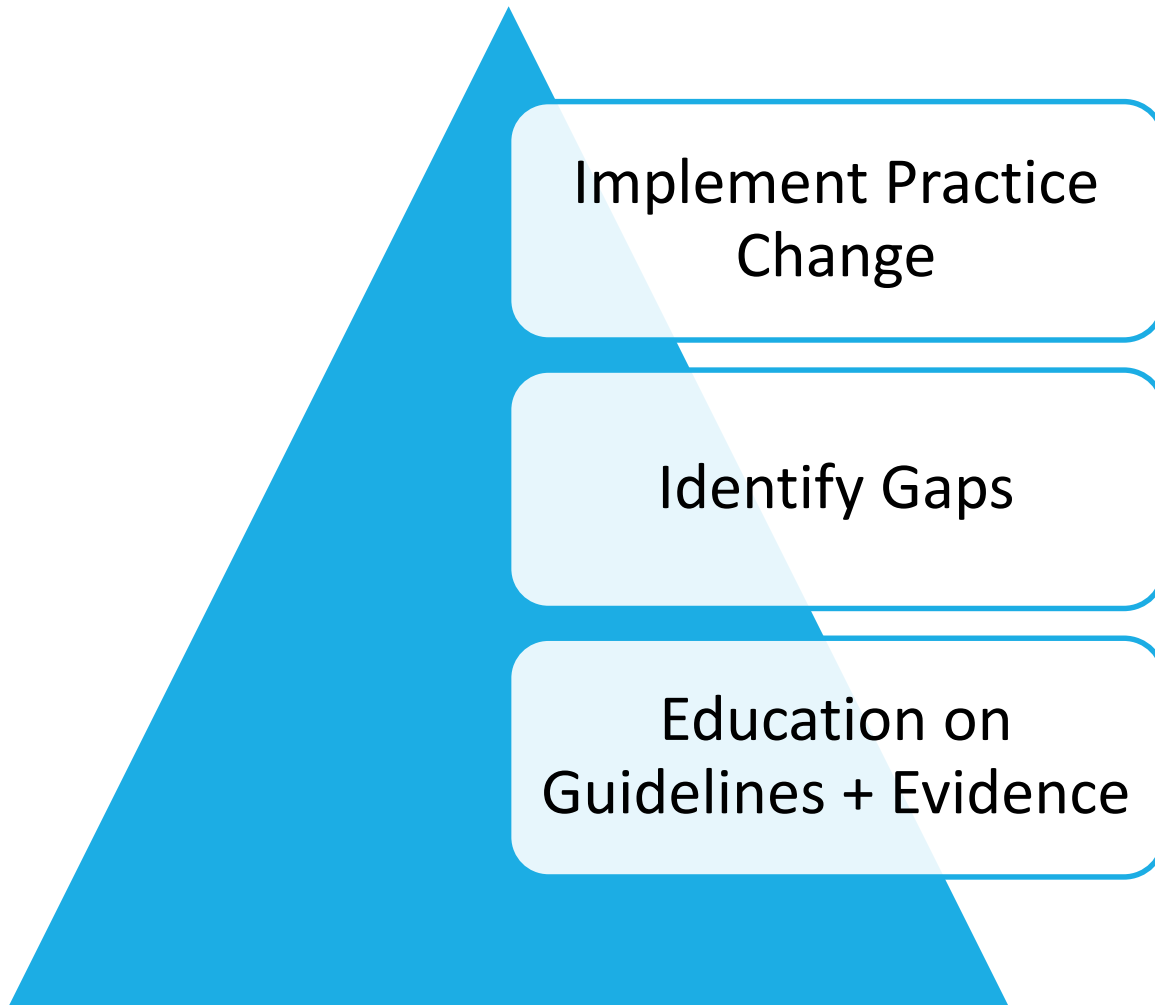
Key Takeaway

We treat CAP longer
than 5 days

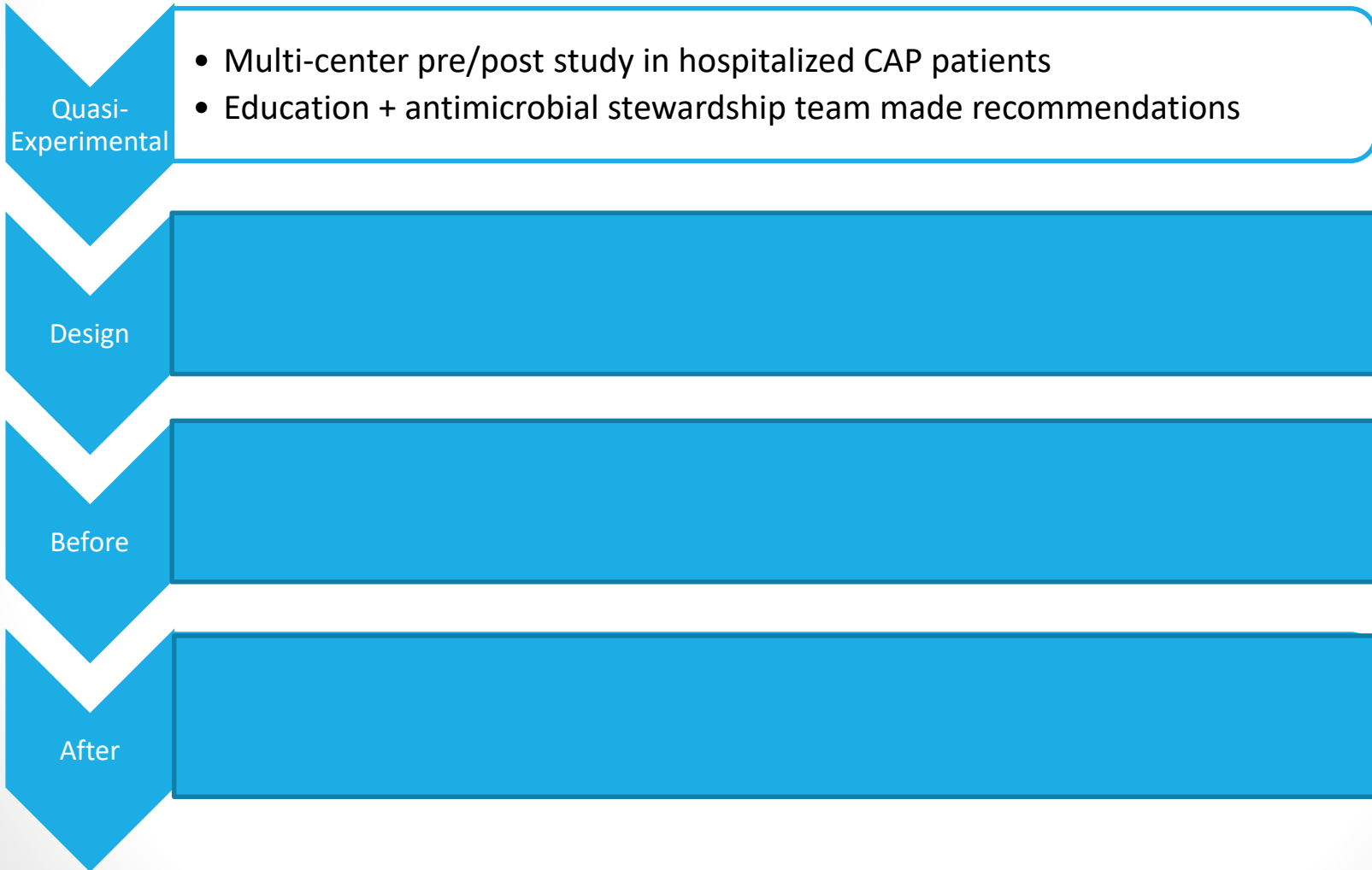
Why Do We Care?



Strategies for Improvement



Strategies for Improvement



Questions?



Thank you for joining!

References

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