



UW TASP
tele-antimicrobial stewardship program

echo

March 28, 2023

Agenda

- How to Write a SBAR
- Speaker: Jeannie Chan
- Case Discussions
- Open Discussion

What is a SBAR?

- **S**ituation
Background
Assessment
Recommendation
- Introduced by US Military in the 1940s
- Adopted in patient safety and quality improvement
- Essential stewardship tool



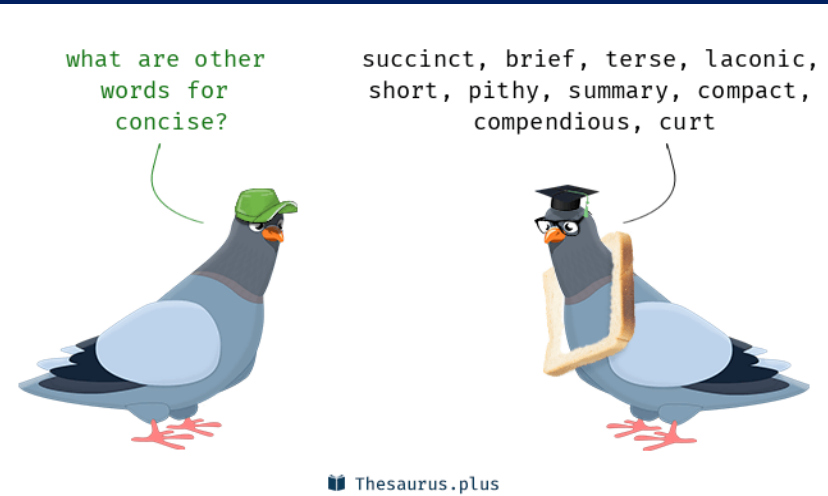
What is a SBAR

- **S = Situation**
 - a **concise** statement of the problem
- **B = Background**
 - **pertinent** and brief information related to the situation
- **A = Assessment**
 - analysis and considerations of options — **what you found/think**
- **R = Recommendation**
 - action requested/recommended — **what you want**



Situation

- **CONCISE, SUCCINCT**



- Bezlotoxumab was last reviewed for UW Medicine formulary in 2017.
- The IDSA Guidelines on Management of *Clostridioides difficile* Infection were recently updated in June 2021.
- An update is needed to better assess bezlotoxumab's place of therapy at UW Medicine.



Background

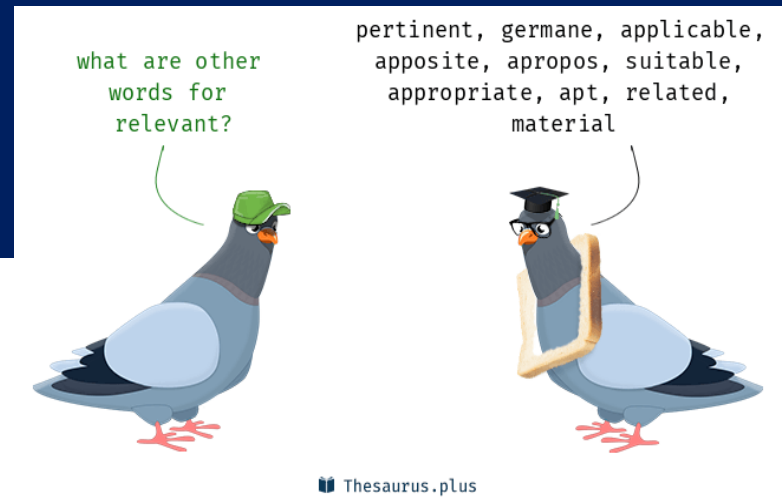
- **RELEVANT, PERTINENT**

- Indication, Dose and Administration

- Monoclonal antibody that binds to *C. difficile* toxin B
- FDA approved its use to reduce recurrent CDI in adults at high risk for recurrence as a single dose (10 mg/kg) given intravenously over 60 min between Day 1-14 of CDI antibiotic therapy.

- Clinical Evidence (Efficacy and Safety):

- Bezlo demonstrates no impact on clinical outcomes, but reduces risk of recurrent infections in clinical trials
- Infusion is well tolerated but patients with history of congestive heart failure had more fatal outcomes with bezlo compared to standard of care.



Background – Providing Context for the Situation

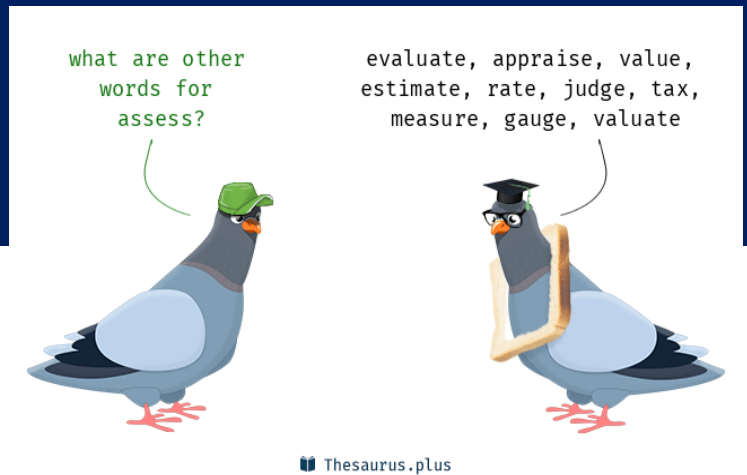
- Current Practice
 - Bezlo is restricted to approval of infectious diseases consultation on a **case-by-case** basis
- Updated National Guidelines
 - Recommends bezlo in adults with **recurrent CDIs** and considers in adults with an **initial CDI episode** at high risk of recurrence. **Risk factors** include ≥ 65 yo, immunocompromised, severe CDI, recurrent CDI within 6 months, and virulent ribotype strains
- Providing Context for the Situation:
 - Does our current practice align with guidelines recommendation?



Assessment

- Evaluate literature

Start with clinical evidence



Study	Design/Analysis		Recurrence Rate (%)	
			SOC	Bezlo
Wilcox et al (2017)	Randomized, double blind, placebo	MODIFY I	28	17
		MODIFY II	26	16
Gerding et al (2018)	MODIFY I & II pooled subgroup analysis of patients with ≥ 1 risk factor		37	21



Number Needed to Treat (NTT)

- Absolute risk reduction (ARR)
 - Difference between the event rate [recurrence] in control group and intervention group
 - $26\% - 16\% = 10\%$
- Number needed to treat (NNT)
 - Inverse of the absolute risk reduction (ARR) expressed as a decimal.
 - $NNT = 1/ARR$
 - $NNT = 1/0.01 = 10$



Assessment

- Evaluate literature

Start with clinical evidence

what are other
words for
assess?



evaluate, appraise, value,
estimate, rate, judge, tax,
measure, gauge, valuate



 Thesaurus.plus

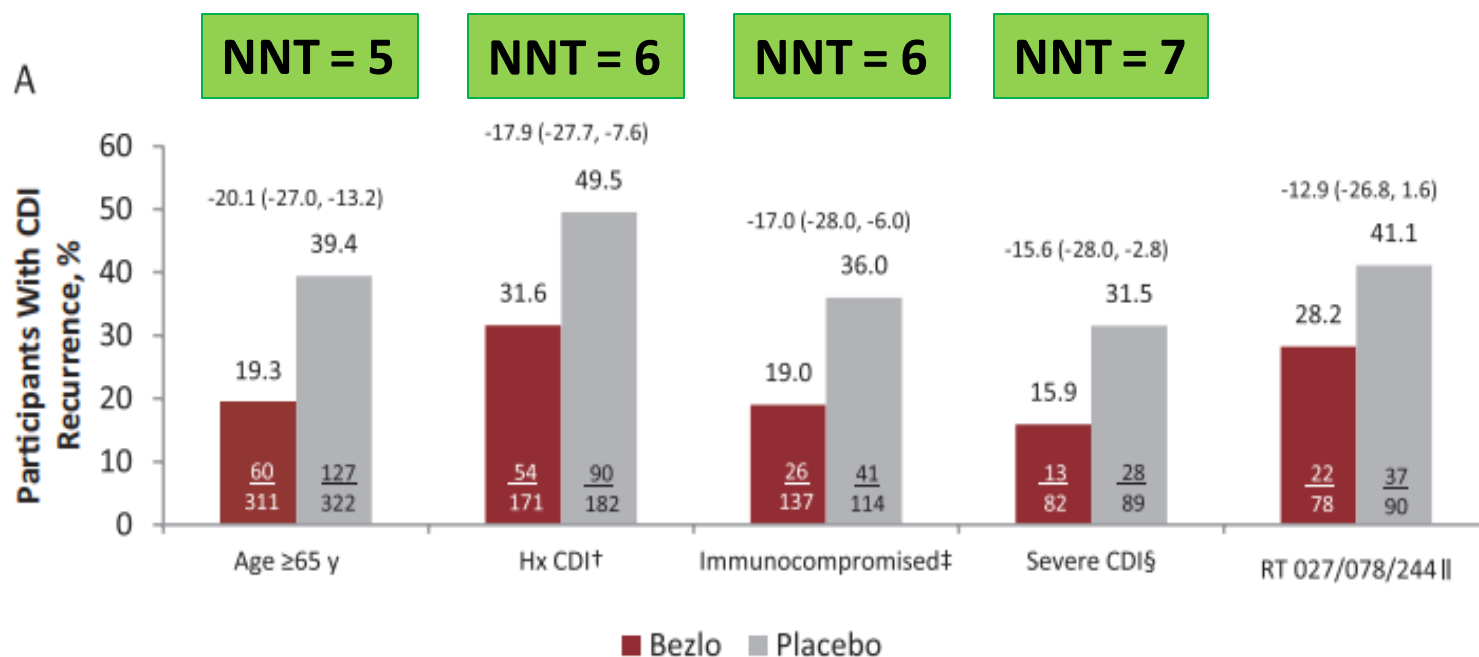
Design/Analysis		Recurrence Rate (%)	
		SOC	Bezlo
Randomized, double blind, placebo	MODIFY I	28	17
	MODIFY II	26	16
MODIFY I & II pooled subgroup analysis of patients with ≥ 1 risk factor		37	21

ARR	NNT
11%	10
10%	10
16%	7



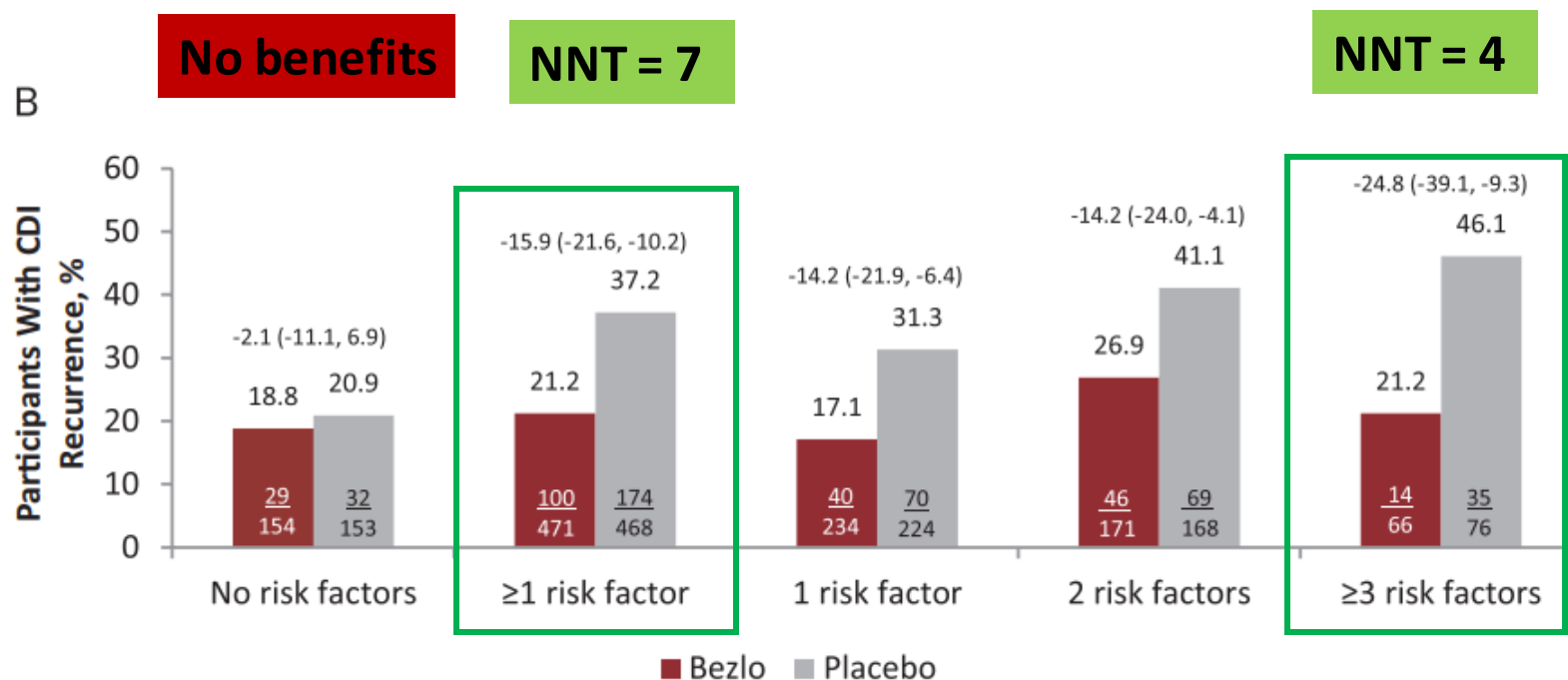
Bezlotoxumab for Prevention of Recurrent *Clostridium difficile* Infection in Patients at Increased Risk for Recurrence

Dale N. Gerding,¹ Ciaran P. Kelly,² Galia Rahav,³ Christine Lee,^{4,5} Erik R. Dubberke,⁶ Princy N. Kumar,⁷ Bruce Yacyshyn,⁸ Dina Kao,⁹ Karen Eves,¹⁰ Misoo C. Ellison,¹¹ Mary E. Hanson,¹² Dalya Guris,¹⁰ and Mary Beth Dorr¹⁰



Bezlotoxumab for Prevention of Recurrent *Clostridium difficile* Infection in Patients at Increased Risk for Recurrence

Dale N. Gerding,¹ Ciaran P. Kelly,² Galia Rahav,³ Christine Lee,^{4,5} Erik R. Dubberke,⁶ Princy N. Kumar,⁷ Bruce Yacyshyn,⁸ Dina Kao,⁹ Karen Eves,¹⁰ Misoo C. Ellison,¹¹ Mary E. Hanson,¹² Dalya Guris,¹⁰ and Mary Beth Dorr¹⁰



Assessment

2) Evaluate local data



- Mini MUE (medication utilization evaluation)
- Define time period
- Data query (pharmacy dispensing, Slicer Dicer)
- Chart review
 - Baseline demographics
 - Pertinent clinical variables of interest
 - ID consult approval, risk factors for CDI
 - Primary Endpoint
 - Define criteria for appropriateness (≥ 1 risk factor)



Assessment - Mini MUE

	N = 100 (%)
Age [Median, IQR]	56 [35-81]
Female	30 (30)
ID consult approval	
Yes	55 (55)
No	45 (45)
Risk Factors	
≥65 yo	20 (20)
Immunocompromised	30 (30)
Severe CDI	15 (15)
Recurrent CDI within 6 months	60 (60)
None	35 (35)



Assessment

- Summarize Findings

Appropriateness	N = 100 (%)
No (without risk factor)	35 (35%)
Yes (≥ 1 risk factor)	65 (65%)

Non-adherence to current protocol:
45% of usage without ID consult approval

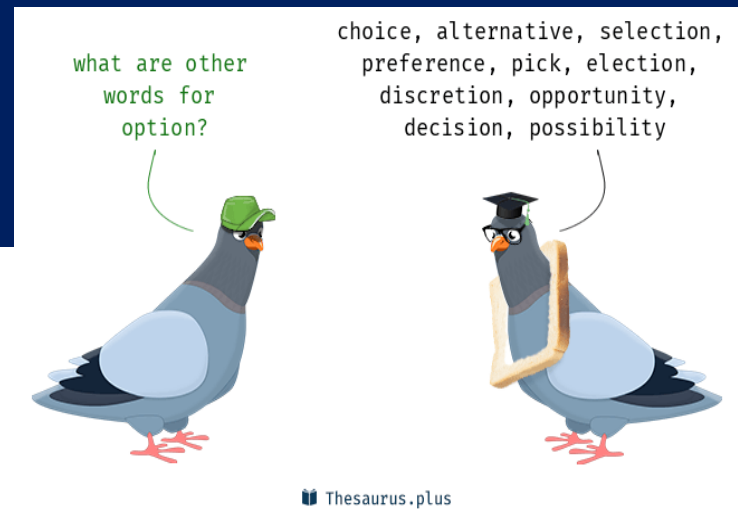
Inappropriate usage (35%)

Annual Cost Avoidance = $35 \times \$3000 = \$105,000$



Assessment

3) Provide Options



- Option A
 - Given the non-urgent nature of Bezlo, restrict Bezlo to AMS review with approval hours from 8am-4pm Mon-Fri
- Option B
 - Develop clinical decision tree and create Bezlo orderset in EPIC with forced function
 - Concern for potential override by providers



Recommendation – Proposal



- Develop internal clinical guidance for appropriate use of Bezlo defined as ≥ 1 risk factor for recurrence of CDI
- Recommend AMS approval of Bezlo
- Follow-up Plan: Perform MUE in 6 months to re-evaluate usage



Summary

- SBAR is an essential stewardship tool
- Efficient and effective way to get key points across without excessive details
- Identify areas of improvement in the process

