Integration of Infection Management in Physician Orders for Life-Sustaining Treatments (POLST)

Aluem Tark, FNP-BC, RN, CHPN^{1,} Mansi Agarwal, PhD, MPH¹, Patricia W. Stone, PhD, RN, FAAN¹

¹Columbia University School of Nursing, Center for Health Policy, New York, NY



Background

- Physician Orders for Life-Sustaining Treatment (POLST) is an Advance Care Planning (ACP) tool, which aims to facilitate End-of-Life (EoL) care discussions
- Care wishes documented on POLST form become set of actionable medical orders
- Infections are common occurrences at EoL and integration of infection management in ACP is important

Aims

- 1. Examine variations in POLST programs
- 2-A) Determine if preference for antibiotic use was captured on POLST form; and B) If antibiotic preference was captured, identify how frequently, and in what sections
- 3. Examine the association between maturity status and the presence of antibiotic use option on POLST forms

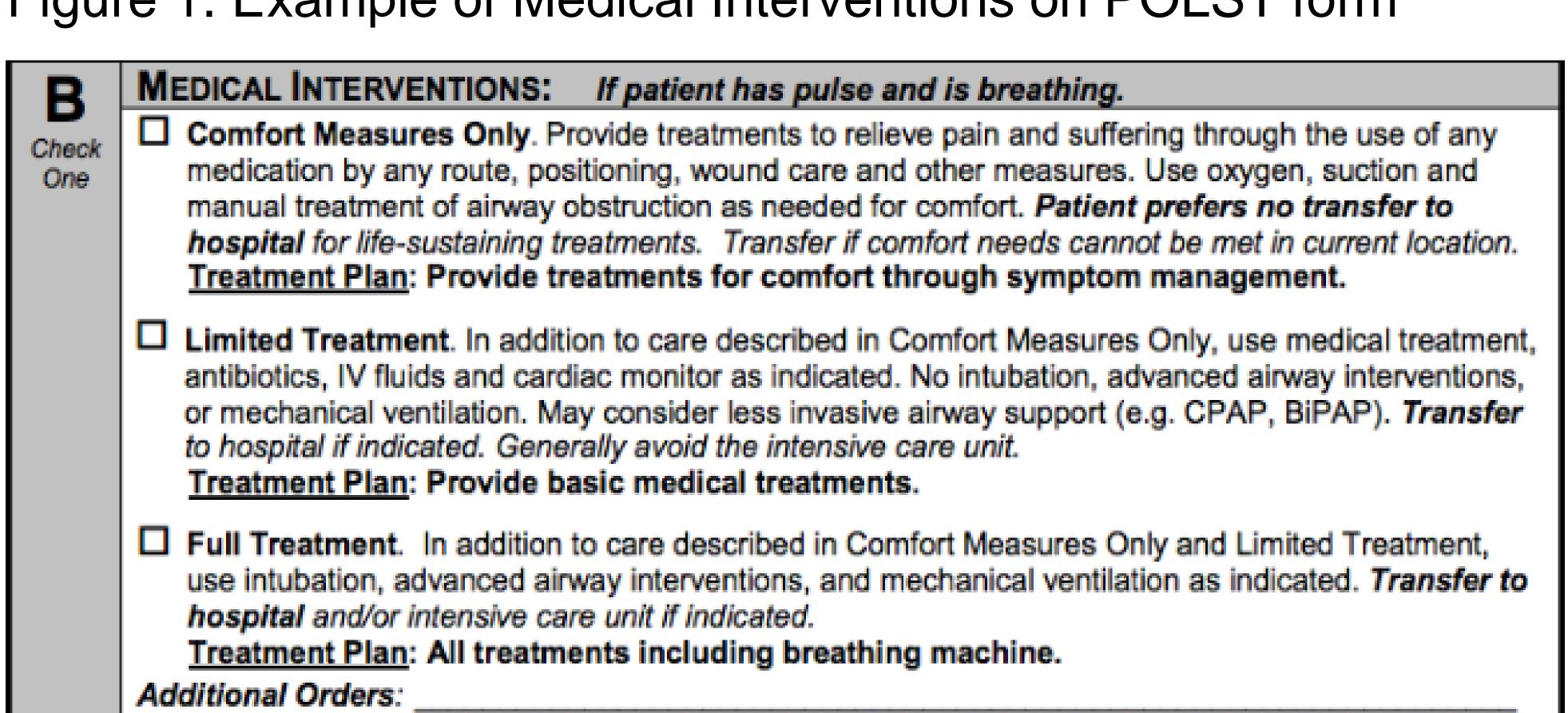
Methods

- An environmental scan was conducted using the national POLST website (<u>www.polst.org</u>), and the Department of Health websites of the 50 U.S. states and the District of Columbia
- Data collection: A standardized data collection tool was developed to identify the following
 - Presence of POLST programs and maturity status (i.e. non-conforming, developing, endorsed, mature)
 - Presence of antibiotic use preference option on a POLST form (i.e., yes / no)
 - If antibiotic use preference option is present, we captured
 - frequency of antibiotic use preference assessment (min:0 to max: 4times); and
 - Location and the level of medical intervention (i.e. Comfort care, Limited care, Full-treatment care or under a separate section)

Methods (cont.)

- Double data collection for a 20% of random sample by a second researcher to ensure accuracy of data
- Descriptive statistics used to examine variation in POLST programs
- Chi-square tests used to examine association between maturity status and presence of an antibiotic use assessment

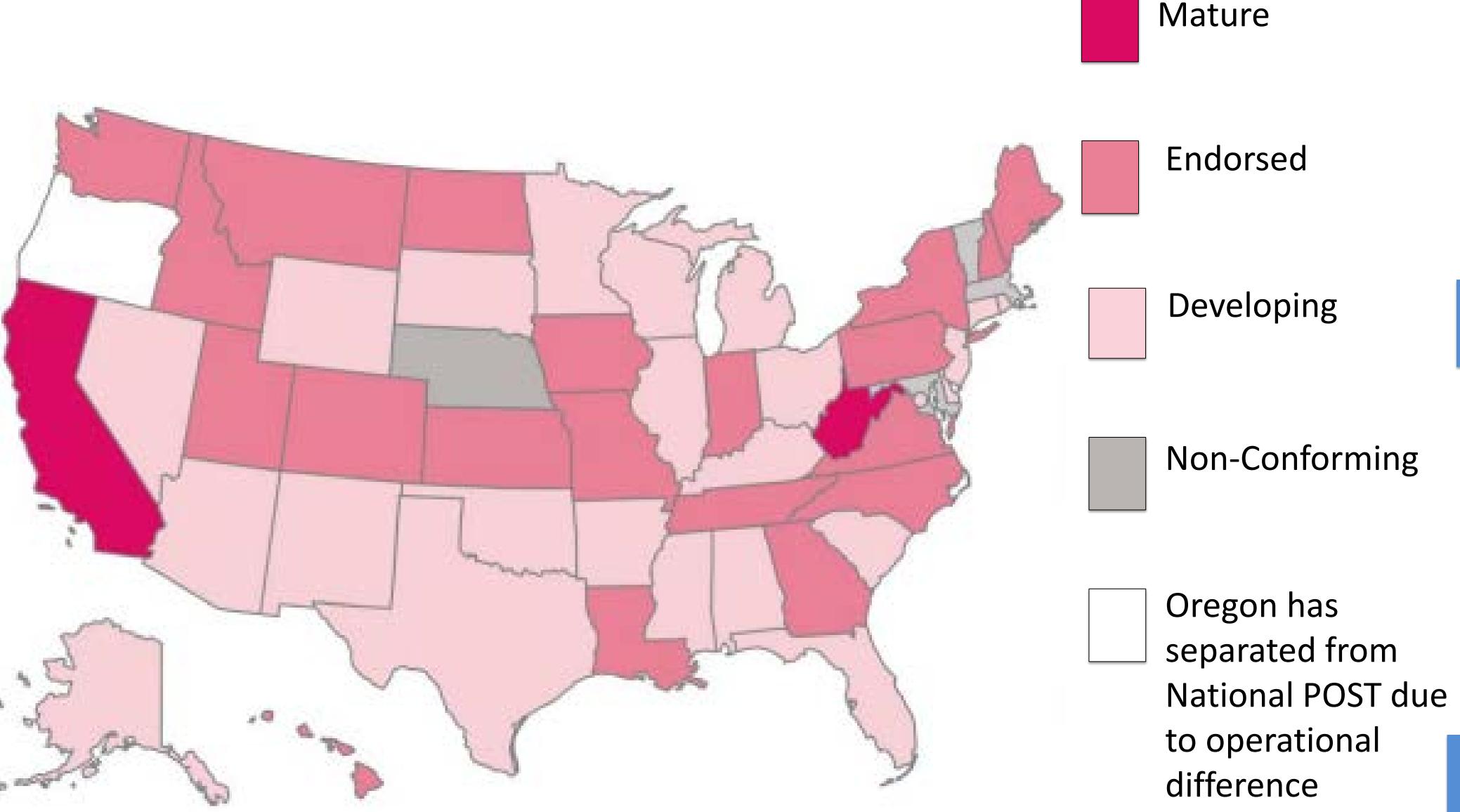
Figure 1. Example of Medical Interventions on POLST form



Results

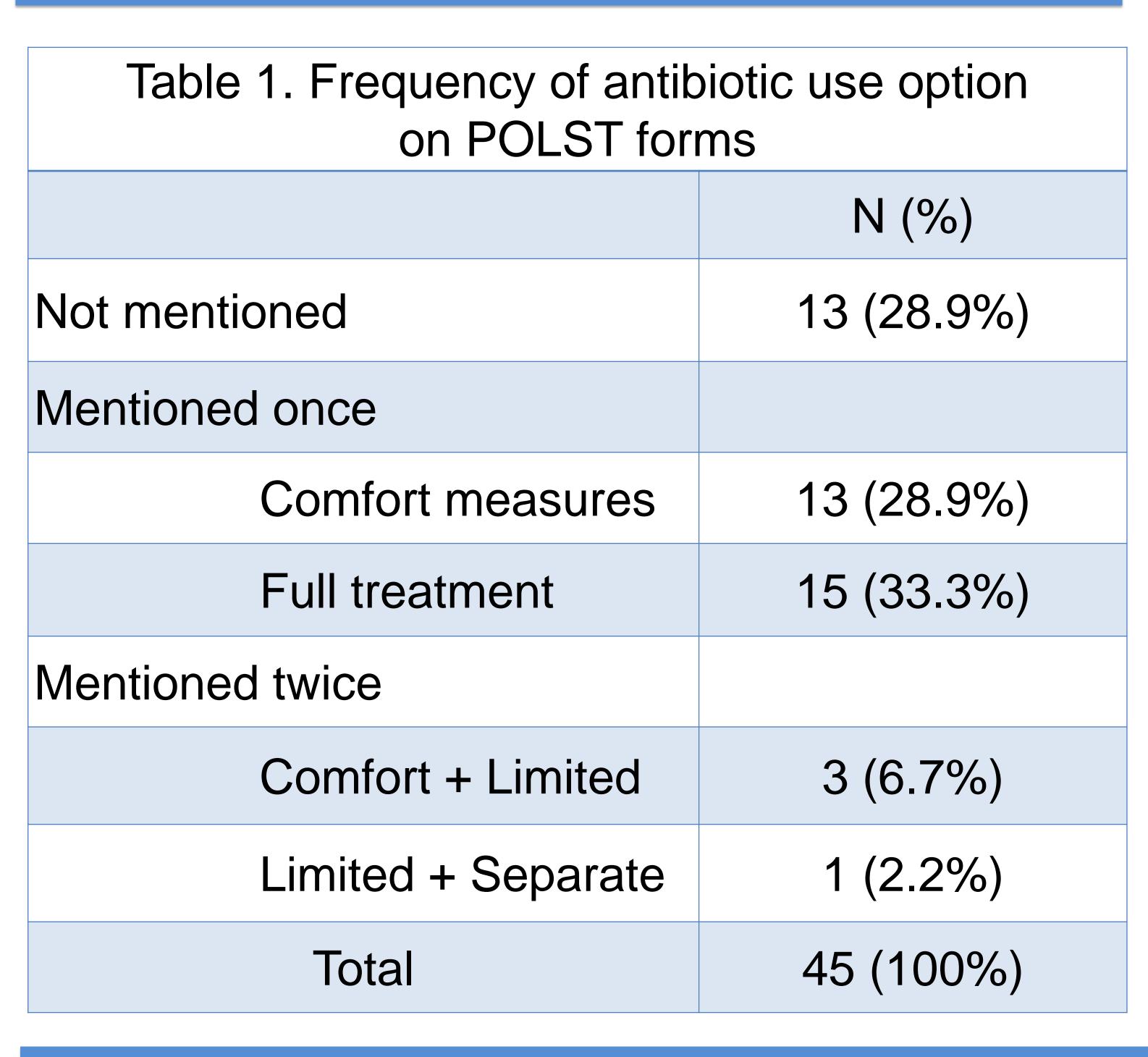
 Majority (92%) of U.S. regions were actively participating in POLST program

Figure 2. Maturity status of POLST program across U.S. regions



- Of 45 POLST forms available, 32 POLST forms (71.1%) captured patient's preference for antibiotic use
- There was no association between POLST maturity status and the assessment antibiotic use option presented (N=45, X²=4.2163, p=0.37)

Results (cont.)



Discussion

- POLST program continues to be widely implemented across the nation, however, there are variations in maturity status
- Although integration of infection management at EoL is an important aspect of ACP, only a few U.S. regions had a separate section for documentation of antibiotics preference at EoL
- Future research is needed to examine regional factors associated with assessment of care preference and actual use of antibiotic at EoL

Conclusion

 Although POLST programs are gaining increased attention as a preferred ACP tool, the usage of the tool in practice to document patient preference for antibiotic use at EoL varied greatly among U.S. regions

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