## Sleep Restriction: Key Terms

TST = total sleep time

TIB = time in bed

SOL = sleep onset latency

WASO = wake after sleep onset

NUMA = number of awakenings

SE = sleep efficiency

## Sleep Restriction: Sleep Efficiency

Patient #1

Bedtime is 12 AM, SOL immediate, 0 NUMAs, WT 8 AM

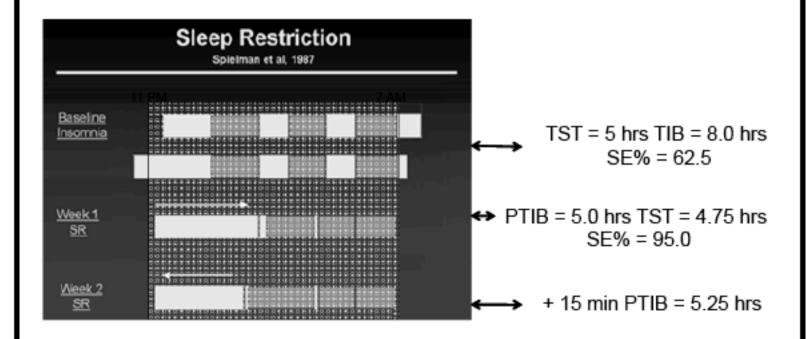
TST (8 hours or 480 minutes)
TIB (8 hours or 480 minutes)
X 100 = 100% SE

Patient #2

Bedtime is 12 AM, SOL 1 hour, 2 NUMAs, 60 total WASO, WT 8 AM

TST (6 hours or 360 minutes)
TIB (8 hours or 480 minutes)
X 100 = 75% SE

## Sleep Restriction



PTIB = prescribed time in bed; SR = sleep restriction. Spielman AJ, et al. Sleep. 1987;10(1):45-56.

## Sleep Restriction and Titration

- Use average TST over previous 2 weeks on sleep diary to restrict hours in bed = PTIB
- Never restrict to less than 5 hours (6.5 hours in bipolar disorder)
- Keep prescribed bed and wake times the same every single day
- 4. Review ways to stay awake until prescribed bedtime
- 5. Review ways to get up on time every day
- Titrate sleep times based on sleep diary data using < 85%, 85% to 90%, > 90%

Perlis ML, et al. Cognitive Behavioral Treatment of Insomnia. New York, NY: Springer; 2005. Spielman AJ, et al. Sleep. 1987;10(1):45-56.

