It starts with sleep:

Unlocking better days through restorative nights



Jeff McSpadden
Co-Founder & CEO



Composure





# Over 70% of older adults with dementia experience chronic sleep issues



Poor health



Risk of falls



Staff burden



Cost of care



# Sound Blanket™

by **Composure** 

Managed audio system built for long-term care.





#### Room installed. Personalized. Scalable.



www.composure.care





Steve Lindsey, President & CEO Garden Spot Communities





Tara Johnson, Administrator Grace Garden at LifeSpring Community

















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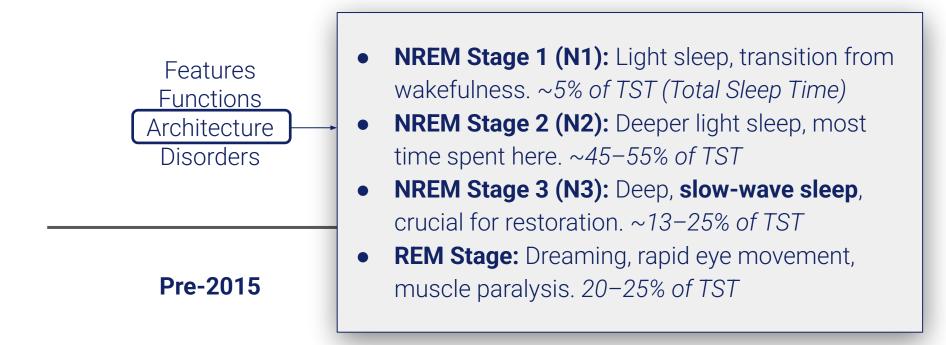
Features
Functions
Architecture
Disorders

**Pre-2015** 

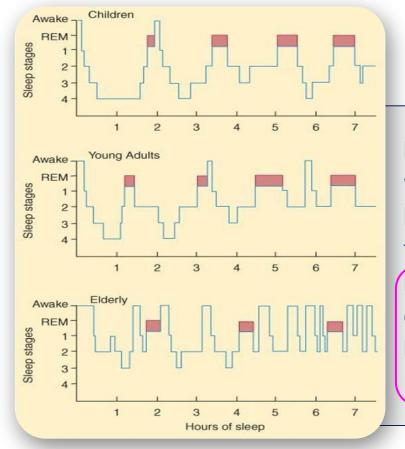












**NREM Stage 1 (N1):** Light sleep, transition from wakefulness. ~5% of TST (Total Sleep Time)

**NREM Stage 2 (N2):** Deeper light sleep, most time spent here.  $\sim$ 45–55% of TST

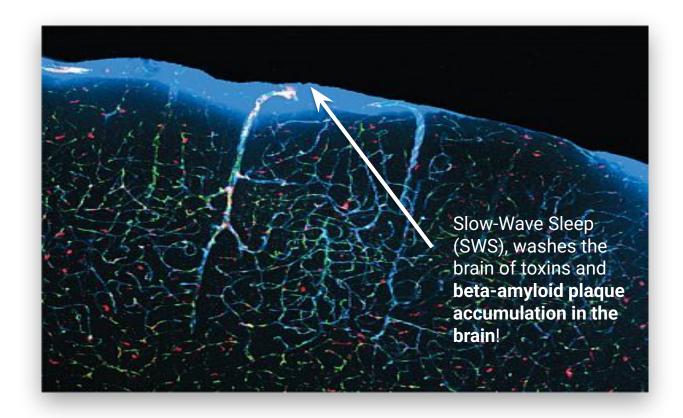
**NREM Stage 3 (N3):** Deep, **slow-wave sleep**, crucial for restoration.  $\sim 13-25\%$  of TST **REM Stage:** Dreaming, rapid eye movement, muscle paralysis. 20-25% of TST

Sleep and Human Aging:

https://www.sciencedirect.com/science/article/pii/S0896627317300880



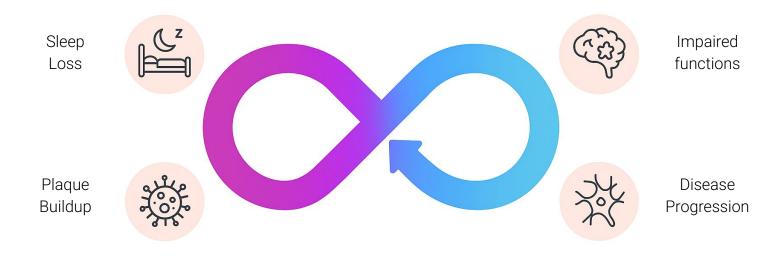
## Strong connection between sleep and dementia





# The Sleep → Dementia Connection

Sleep loss **increases** dementia risk. Dementia **decreases** restorative sleep.



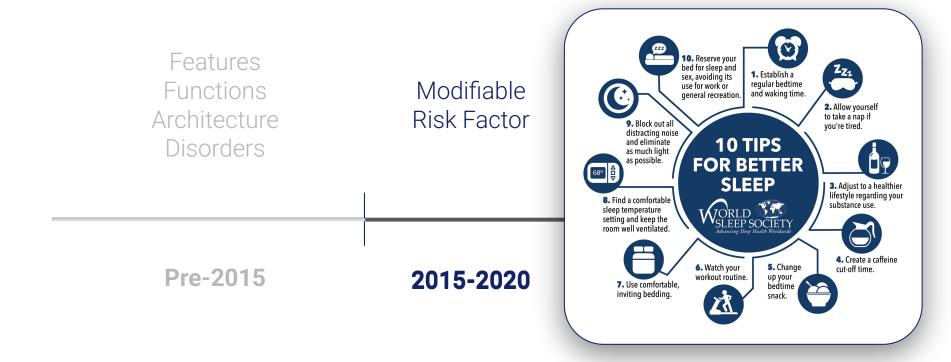


# **Broken Circadian Rhythm**



## **Evolution of sleep science**











Targeted Therapeutic

2020 and beyond



How do we create real **opportunity** for restorative sleep when **ability** is compromised and the **need** is high?

#### Sound Blanket™



by Composure

# Peer-reviewed Research









Behavior Variable	TI-T0 p Value	TI-T2 p Value	T0–T2 p Value
Bed mobility	0.733	0.408	0.907
AM rising and PM retiring activities	0.619	0.396	1.000
Appetite	0.175	0.825	0.273
Bathing self-performance	0.494	0.248	1.000
Toilet use	0.747	0.752	0.752
No. of falls	0.840	0.838	1.000
Cooperation with care	0.025*	0.471	0.397
Following requests and instructions	0.257	0.797	0.192
Nighttime insomnia	0.245	0.766	0.128
Daytime drowsiness	0.011*	0.859	0.886

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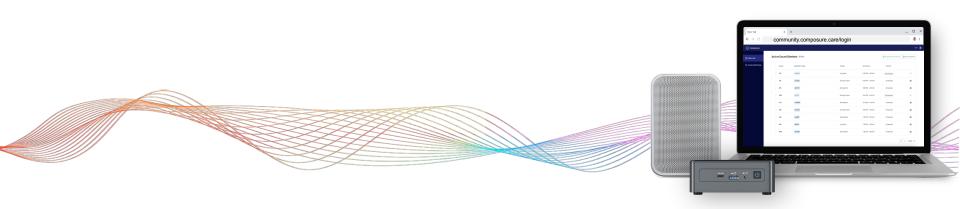




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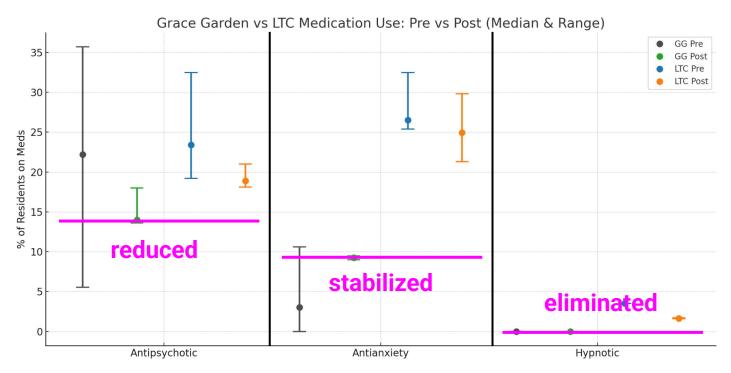
# Case Study Highlights

www.composure.care/case-studies





#### Pre/Post Outcomes: Medication Use



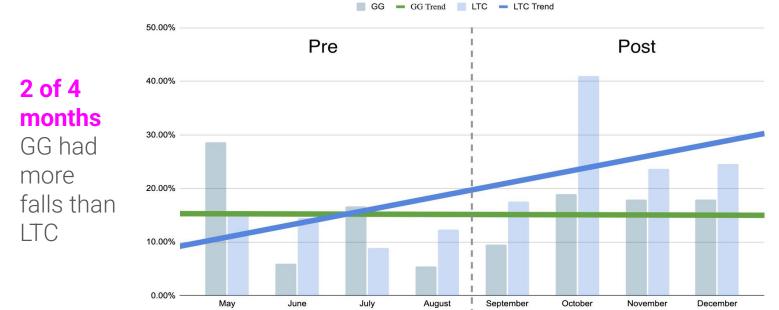
https://www.composure.care/2021/06/07/empowering-memory-care-a-sleep-centered-approach-at-grace-garden/







% of residents with falls per month



All 4 months GG had fewer falls than LTC

https://www.composure.care/2021/06/07/empowering-memory-care-a-sleep-centered-approach-at-grace-garden/











40% shorter sleep onset

31%
fewer
residents
waking at
night

43% reduction in waking events at night

26% increase in daytime alertness

<sup>\*</sup> Survey data compares changes in staff observations at 3 weeks vs 16 weeks





#### Reduces

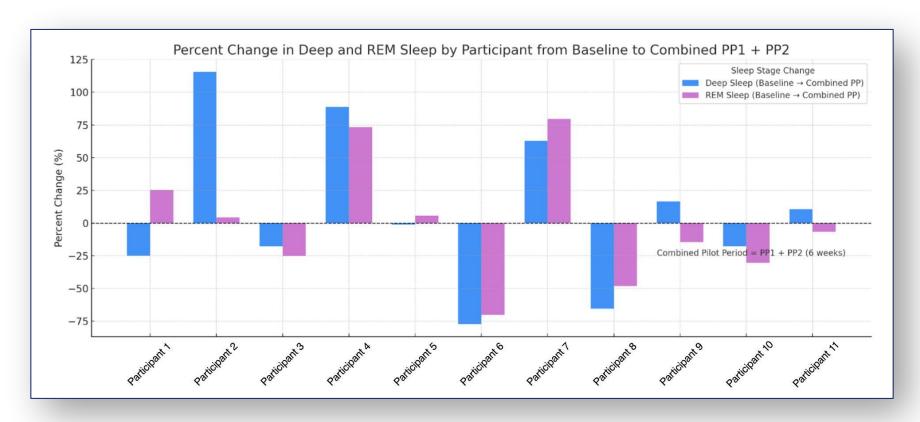
- Falls
- Behavioral disturbances
- Psychotropic drug use
- Daytime drowsiness

#### **Increase**

- Cognitive functioning
- Alertness
- Engagement
- Overall health







# Strategy of Sleep: What Works and What Doesn't For intended recipient only. © Composure Inc. 2025



# **Starting Points and Action Steps**

- Audit daily routines
- Document the sonic environment.
- Be purposeful living "architects"





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Thank you



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