Understanding Paradoxical Lucidity: Family Caregiver Interpretations of Lucid Episodes Among People With Late-Stage Alzheimer's Disease and Related Dementias (ADRDs)

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Take-Away: Family caregivers provide unique context and knowledge about Episodes of Lucidity (EL) in people living with ADRD. Their appraisals are critical for advancing the scientific understanding of EL.

INTRODUCTION

- **Episodes of lucidity** (EL; sometimes called paradoxical lucidity) are described as the spontaneous, transient return of abilities or communication that had been presumably lost among people living with ADRD.¹⁻³
- Current models of ADRD do not adequately account for, explain, or provide data on these spontaneous reversals of cognitive ability.⁴ Nor do these models consider how family caregivers (FCG) interpret ELs and whether ELs influence how FCGs make care decisions.5

For this study, our objectives were:

- To investigate how FCGs experience and attribute meaning to ELs
- To explore how FCGs considered or did not consider changes for the care recipient after ELs
- To use data to refine typologies of ELs developed using FCG survey data

METHODS

- Participants were current and former FCGs who had previously completed an electronic survey that helped characterize ELs. Those who reported witnessing at least one EL in the survey were eligible.
- Participants were purposively chosen based on the type of EL they witnessed. Four preliminary EL types had been determined after a typology analysis of survey responses.
- Other criteria were also included to assure balancing of perspectives. These included: (a) the relationship to the person with ADRD, (b) whether they lived together, (c) whether the person with ADRD was still living or had died, and (d) FCG race/ethnicity.
- Twenty-four participants were interviewed by phone. Interviews were recorded, transcribed, double-coded, and analyzed to meet study objectives.

RESULTS

Meaning making:

- FCGs often assigned meta-physical meaning to ELs and worked to make sense of them.
- ELs were indelible; FCGs could describe them in very specific detail.
- FCG reported they were uniquely qualified to understand the nuanced behavior changes, actions, or "thoughts" that they felt indicated lucidity.

Consequences of ELs:

- FCGs identified family conflict about how to manage the care recipient's care after witnessing a lucid episode.
- FCGs identified adjustments they made or how they recreated EL conditions into daily routines in order to stimulate another episode.

RESULTS

Potential ways to differentiate typologies:

- When in the disease course ELs happen
- Degree of change from pre-EL state to EL state
- Presence of "triggers" that precipitated EL (family engagement, familiar rituals, and life-altering/ending events)
- Coherence of communication (verbal and non-verbal)

CONCLUSIONS

- Caregivers recall specific details that help them make meaning of ELs and can influence subsequent care decisions.
- FCGs provided context on the interdependence between FCG appraisals, factors associated with a person living with ADRD's disease course, and EL characteristics.
- Future work will attempt to disentangle FCG/observer characteristics from EL characteristics.

REFERENCES

- Mashour GA, Frank L, Batthyany A, et al. Paradoxical lucidity: a potential paradigm shift for the neurobiology and treatment of severe dementias. Alzheimers Dement. 2019;15(8):1107-1114. doi:10.1016/j.jalz.2019.04.002
- Nahm M, Greyson B, Kelly EW, Haraldsson E. Terminal lucidity: review and a case collection. Arch Gerontol Geriatr. 2012;55(1):138-142. doi:10.1016/j.archger.2011.06.031
- Peterson A, Clapp J, Largent EA, Harkins K, Stites SD, Karlawish J. What is paradoxical lucidity? The answer begins with its definition. Alzheimers Dement. 2022;18(3):513-521. doi:10.1002/alz.12424
- Gilmore-Bykovskyi A, Griffin JM, Mueller KD, Parnia, S, Kolanowski, A. Toward harmonization of strategies for investigating lucidity in AD/ADRD: a preliminary research framework. Alzheimers Dement. Published online June 27, 2022. doi:10.1002/alz.12709
- Griffin JM, Kim K, Gaugler JE, Biggar VS, Frangiosa T, Bangerter LR, Batthyany A, Finnie DM. Caregiver appraisals of lucid episodes in people with late-stage Alzheimer's disease or related dementias. Alzheimers Dement (Amst). 2022;14(1):e12313. doi:10.1002/dad2.12313

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