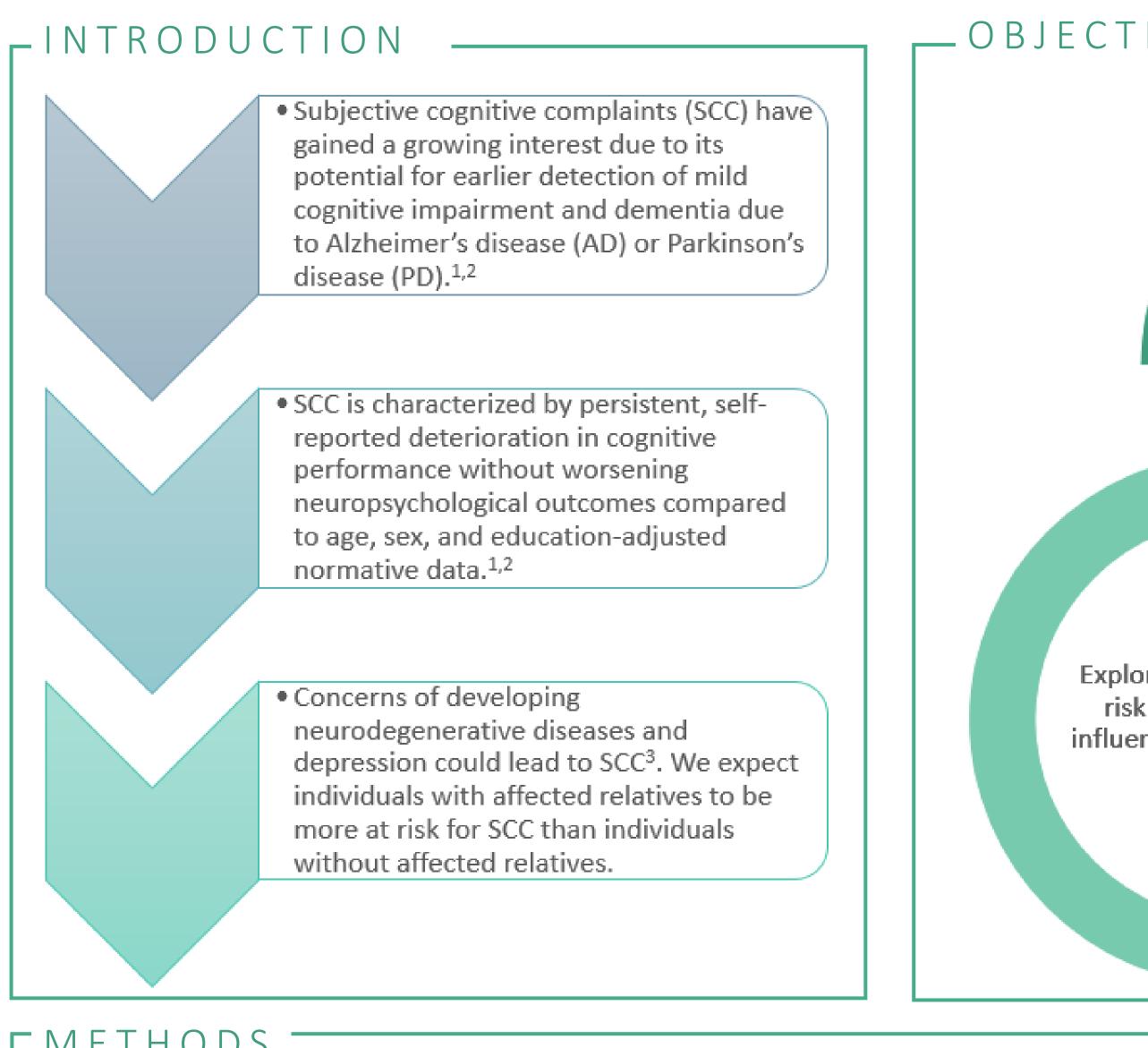


# Healthy Brain Ageing



### MEIHODS

¥-?

 $\{ \| \}$ 

- As part of the HeBA initiative (Abstract 1957), residents aged between 50 and 80, living in Luxembourg and the Greater Region were invited to participate in the population-based online survey
- The online survey includes self-reporting questionnaires:
  - whether they have/had or not a blood relative with PD or AD
  - Geriatric Depression Scale Short Form (GDS-SF)<sup>4</sup>
- SCC measured as a composite score (/3)

### Description

Item on memory

Non-Motor Symptoms Scale<sup>5</sup>

### whether they consider their memo very poor compared to their peers Item 12: Problems remembering the happened recently or forgetting to Item 15: Difficulty concentrating o

Sum Score, cut-o

References

4. Yesavage, J. A., & Sheikh, J. I. (1986). 9/Geriatric Depression Scale (GDS). Clinical Gerontologist, 5(1-2), 165-173. https://doi.org/10.1300/J018v05n01\_09 5. Chaudhuri, K. R., Martinez-Martin, P., Schapira, A. H. V., Stocchi, F., Sethi, K., Odin, P., . . . Olanow, C. W. (2006). International multicenter pilot study of the first comprehensive self-completed nonmotor symptoms questionnaire for Parkinson's disease: The NMSQuest study. Movement Disorders, 21(7), 916-923. https://doi.org/https://doi.org/10.1002/mds.20844

7. Zlatar, Z. Z., Moore, R. C., Palmer, B. W., Thompson, W. K., & Jeste, D. V. (2014). Cognitive Complaints Correlate With Depression Rather Than Concurrent Objective Cognitive Impairment in the Successful Aging Evaluation Baseline Sample. Journal of Geriatric Psychiatry and Neurology, 27(3), 181-187. https://doi.org/10.1177/0891988714524628



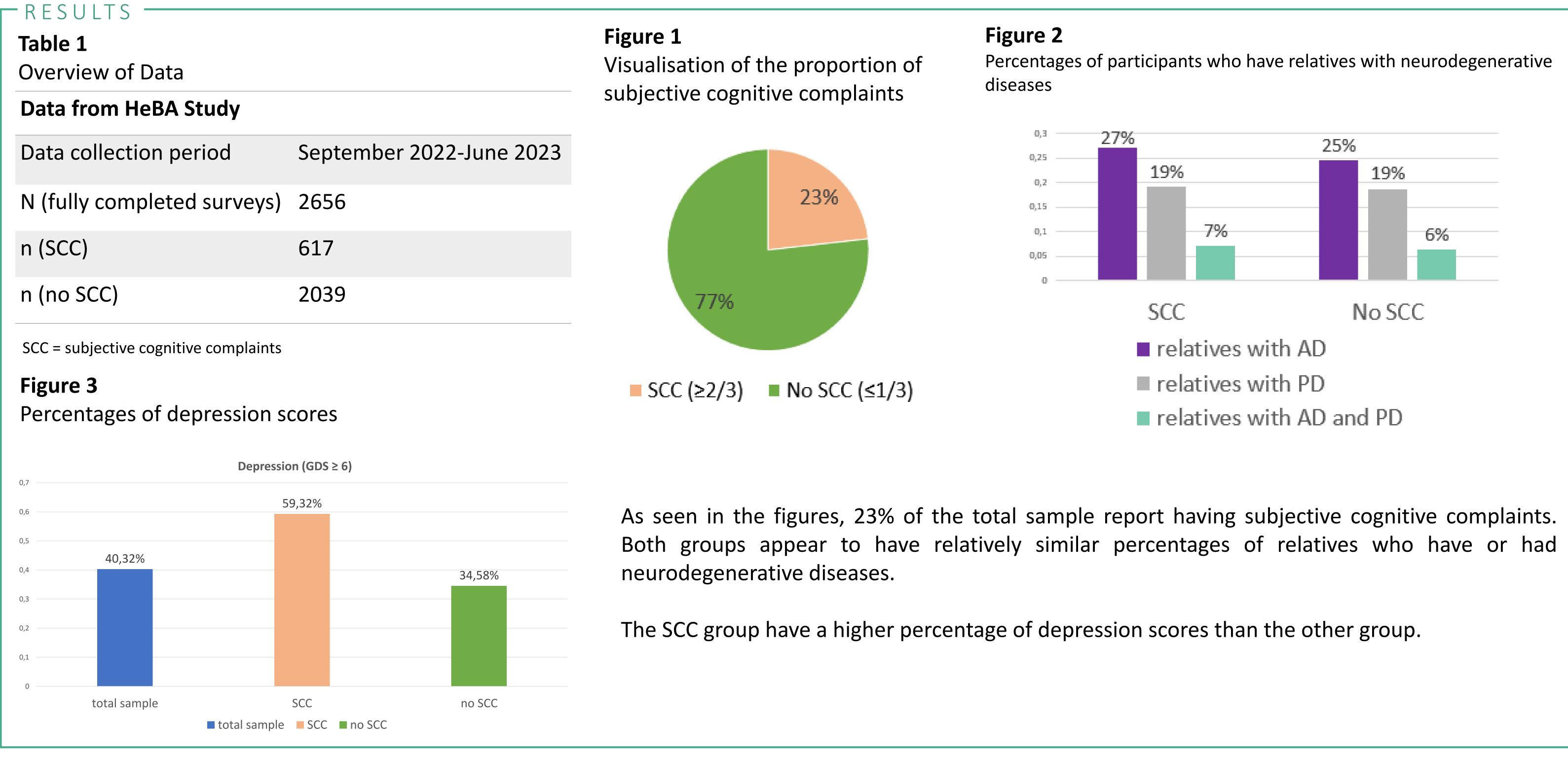
Sonja R. Jónsdóttir<sup>1,2,4</sup>, Claire Pauly<sup>1,2,4</sup>, Olena Tsurkalenko<sup>1,4</sup>, Elodie Thiry<sup>2</sup>, Anne-Marie Hanff<sup>1</sup>, Tainá M. Marques<sup>1</sup>, Corinne GC Horlings<sup>3</sup>, Alicia Garrido<sup>6</sup>, Carlos Vega<sup>4</sup>, Sebastian Schade<sup>5</sup>, Philipp Mahlknecht<sup>3</sup>, Clarissa PC Gomes<sup>4</sup>, Soumybrata Ghosh<sup>4</sup>, Kavita Rege<sup>4</sup>, Rajesh Rawal<sup>4</sup>, Deborah McIntyre<sup>1</sup>, Klaus Seppi<sup>3</sup>, Maria Jose Martí<sup>6</sup>, Claudia Trenkwalder<sup>5</sup>, Eduardo Tolosa<sup>6</sup>, Werner Poewe<sup>3</sup>, Venkata Satagopam<sup>4</sup>, Brit Mollenhauer<sup>5</sup>, and Rejko Krüger<sup>1,2,4</sup> on behalf of the HeBA consortium <sup>1</sup>Luxembourg Institute of Health, <sup>2</sup>Centre Hospitalier de Luxembourg, <sup>3</sup>Medical University Innsbruck, <sup>4</sup>Luxembourg Centre For Systems Biomedicine (LCSB), University of Luxembourg, <sup>5</sup>Paracelsus-Elena-Klinik Kassel, <sup>6</sup>Hospital Clinic de Barcelona,

Investigate the prevalence of SCC from Healthy Brain Ageing Study (HeBA) participants in Luxembourg

Explore the prevalence of risk factors which can influence the development of SCC

	Max. score	
nory as poor or even	/1	
things that have o do things or staying focussed	/2	
-off score ≥ 2 for SCC	/3	

Table 1



### - CONCLUSIONS & OUTLOOK

Our data showed that 23% of the total sample reported having SCC according to the composite score. The percentage of depression was high in the total sample, with the SCC group having a higher percentage of depression scores. Interestingly, other studies revealed that depressed individuals are more likely to report cognitive complaints than non-depressed individuals<sup>6</sup>, as well as that SCC may relate more to depressive symptoms rather than objective cognitive impairment<sup>7</sup>. We seek to complete a deeper analysis and build a multi regression model for SCC and psychological well-being in participants of the HeBA study, as well as to assess objective cognitive impairments during in-person visits.







## Subjective Cognitive Complaints in Participants of the Healthy Brain Ageing Study (HeBA)

### sonja.jonsdottir@lih.lu

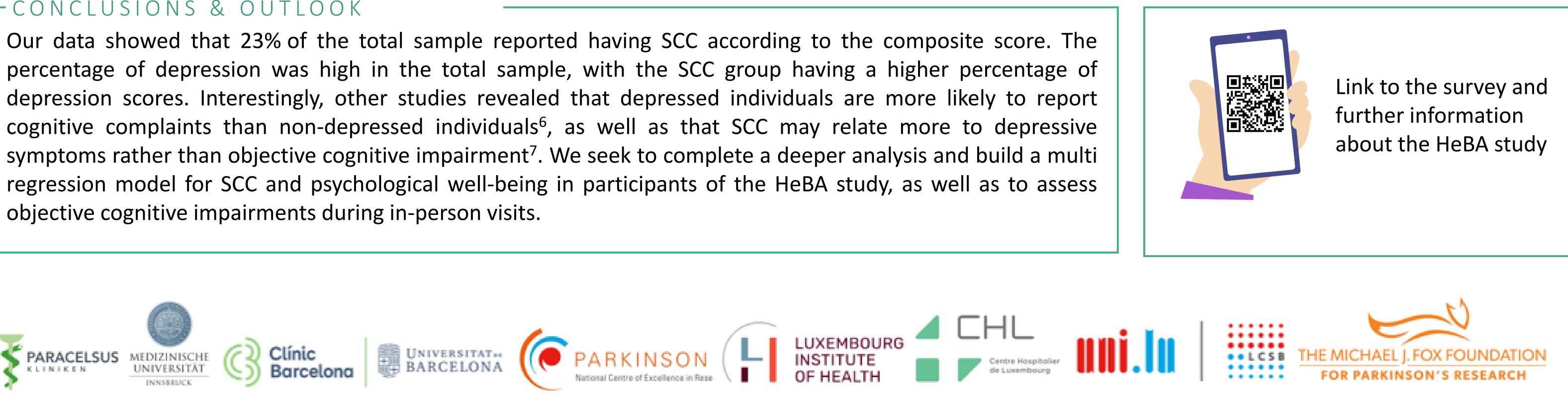












<sup>1.</sup> Jessen, F., Amariglio, R. E., van Boxtel, M., Breteler, M., Ceccaldi, M., Chételat, G., ... Wagner, M. (2014). A conceptual framework for research on subjective cognitive decline in preclinical Alzheimer's disease. Alzheimers Dement, 10(6), 844-852. https://doi.org/10.1016/i.ialz.2014.01.001

<sup>2.</sup> Oedekoven, C., Egeri, L., Jessen, F., Wagner, M., & Dodel, R. (2022). Subjective cognitive decline in idiopathic Parkinson's disease: A systematic review. Ageing Res Rev, 74, 101508. https://doi.org/10.1016/j.arr.2021.101508 3. Tiberi, Cassidy and Demerdijan, Sophia (2022) "Determinants of Subjective Memory in First-Degree Relatives and Care Providers of Individuals with Dementia," Butler Journal of Undergraduate Research: Vol. 8, Article 12. Retrieved from: https://digitalcommons.butler.edu/bjur/vol8/iss1/12

<sup>6.</sup> Santangelo, G., Vitale, C., Trojano, L., Angrisano, M. G., Picillo, M., Errico, D., ... Barone, P. (2014). Subthreshold depression and subjective cognitive complaints in Parkinson's disease. European Journal of Neurology, 21(3), 541-544. https://doi.org/https://doi.org/10.1111/ene.12219