

USING MOBILE SENSING TO COLLECT AND CLASSIFY COGNITIVE AND BEHAVIORAL DATA IN BIPOLAR AND DEPRESSED PATIENTS

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METHODS

We conducted a literature review to identify existing platforms and are in the process of developing mobile sensing platforms for the assessment of cognitive impairment on younger patients.

RESULTS / DISCUSSION

We identified that working memory, verbal memory, psychomotor speed, executive function, and attention are key cognitive functions. We also identified that it is possible to measure them using the platform we are developing. To date, some applications have been deployed, but there are still gaps to be explored, such as the application of gold-standard neurocognitive tests and passive-sensing to identify potential mental health issues.

CONCLUSION

Digital technologies can add great value to the diagnosis and treatment of mental disorders, as they are easy to access by younger users and the extraction for cognitive and behaviour features is technically feasible.

