EXISTENCE OF DIFFERENT PROFILES IN LONG COVID PATIENTS WITH COGNITIVE COMPLAINTS C.CABELLO FERNANDEZ (1), V. DIDONE (1), H. SLAMA (2), G. DUPUIS (3), F. COLLETTE* (1), S. WILLEMS* (1) (1) Uliège ; (2) ERASME (ULB) ; (3) UQAM ; *Contributed equally as co-last author

BACKGROUND

- Difficulties in memory, attentional and executive functioning are observed in a large number of Long COVID patients ⁽¹⁾
- In addition, cognitive complaints are among the most reported symptoms⁽⁵⁾ and persists even two-years after infection ⁽⁶⁾
- Origin is likely multifactorial (e.g. direct viral infection of the hypoxia, hyperinflammation, vascular CNS, mitochondrial dysfunction, neuropsychiatric comorbidities, autonomic nervous system dysfunction or a combination) ⁽²⁾
- Furthermore, different profiles of Long COVID patients have been observed for cognitive difficulties ⁽³⁾

AIM

To characterise Long COVID patients according to their cognitive performance and perception of difficulties in daily life

METHODS

- Data are from an ongoing RCT funded by KCE ⁽⁴⁾
- **Patients** : 123 (aged 47 ± 10 [21-66]; 39 males; 20 months ± 8 [4-39] since infection) with cognitive complaints following one or more Covid-19 infections
- *Neuropsychological assessment* : global cognitive performance (MOCA), verbal and visuo-spatial long-term memory (RBANS, BVMT-R), processing speed, selective attention (D2-R, TAP), divided attention (TAP), inhibition (STROOP), verbal fluidity, flexibility (TAP) and working memory (BROWN-PETERSON, TAP)
- Psychological and somatic symptoms : self-reported questionnaires for complaints with executive and attentional functioning (BRIEF-A), memory complaints (MMQ), fatigue (MFIS), quality of sleep (PSQI), psychological distress (OQ-45), quality of life (ISQV) and reduction in work and activity (WPAI))
- Structured interview for complaints reporting
- They also differ in their cognitive complaints and in physical fatigue symptoms

(1) Jaywant et al. 2021 Neuropsychopharmacology ; (3) Voruz et al. 2023 BMC neurology ; (5) Lambert et Corps 2020 Symptoms Survey Report ; (6) Fernández-de-Las-Peñas et al. 2023 J. Infect.









Trial registration number: NCT05167266 (clinicaltrials.gov)

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More info about the trial