HOMOGENEITY OF OPINION EXPERT ON CLEO SCALE
WHEN APPLIED TO 50 MODELED PHARMACEUTICAL INTERVENTIONS
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BACKGROUND
The CLEO Scale is a 3-dimensional tool to assess the Clinical, Economic and Organizational impact of Pharmacists’ interventions (PI) which would resolve drug related problems in prescriptions. AVICENNE is an advanced real time pharmaceutical decision support system based on the patient’s data, Pharmaceutical Algorithms and Pharmaclass® (Keenturtle) which enhances the PI relevance.

MATERIALS AND METHODS
From the 171 modeled clinical situations in Pharmaclass®, the 50 most frequent were chosen. For each situation a PI was retrospectively and randomly selected between November 2019 and November 2020 in the AVICENNE database. It contained 1263 PI transmitted after of Pharmaclass® alerts’ analysis in 1700 beds of two health facilities.

A multiprofessional panel of 11 clinicians have rated independently the PI using the CLEO scale. They re-rated them after a one-month washout period.

Intra-class correlation coefficients in absolute agreement on single unit (ICC1,1) are calculated using the “Psych” package on Rstudio® to measure inter- and intra-rater reliabilities of the panel.

RESULTS
On average less than 3 minutes are needed per evaluation.

Inter-rater reliability (ICC1,1) was poor for clinical and organizational dimensions and moderate for economic dimensions. Intra-rater reliability was moderate for clinical and organizational dimensions and excellent for economic dimensions.

/conclusion
Almost all of AVICENNE PIs prevent a temporary or permanent damage or the need of care to reduce their gravity.
The CLEO tool offers a limited validity when used by untrained clinicians.
Symbolic artificial intelligence enhances the therapeutic safety of patients and the relevance of care.

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