AI model for the creation of automatic and personalized health literacy plans for home health care services and validation protocol

HEALTH LITERACY

Health literacy is a health determinant with a direct and significant impact on health-related quality of life. It is the result of Health Education, a concept that combines elements of health and education.

“It involves achieving a level of knowledge, personal skills and confidence that enables people to take action to improve their health through lifestyle change” WHO

METHODOLGY

1) A holistic geriatric assessment that identifies the needs and capabilities of the care ecosystem (patient-caregiver) is made.
2) The AI model analyzes the data collected through validated diagnostic algorithms —using NANDA, NOC, NIC taxonomy—.
3) The AI model automatically generates an individualized health literacy plan adapted to each care ecosystem.
4) The following outcomes are measured before, during and after the health literacy plan:
   a) The acquired knowledge.
   b) Behavioral change.
   c) Health related outcomes.

RESULTS

Health literacy model based on AI for the creation of automated and scalable plans for home health care environments. This model has the potential to improve the health literacy of the population over 65—in a situation of chronicity, complexity, pluralpathology, dependence, frailty, pre-frailty or autonomy—and their informal care ecosystem (non-professional caregivers) in the home environment, especially if long-term care is involved. The created health literacy plan were developed under a rigorous protocol based on criteria of accessibility, equity and scientific evidence.

VALIDATION PROTOCOL

It will be possible to validate the impact of the health literacy plans created by the AI model on both the patient and the caregiver.

CONCLUSION

The AI model is currently in the process of validation, but it shows promising results in reducing the time spent on direct intervention by professionals and improving the population’s accessibility to health literacy plans.