

As part of genetic counselling (GC), people learn how to deal with the medical, psychological, and familial implications of genetic contributions to disease as well as adapt to them. We have recently released “Genome Access” (GA), a platform developed to virtualize several steps of the GC process so that people can be better informed about their genetic health status and be more confident when making decisions about it.

In order to virtualize the counselling process for patients with genetic diseases, the platform is based on Artificial Intelligence algorithms developed ad hoc. In addition to being embedded in secure communication protocols, GA is entirely encrypted and compliant with GDPR to protect personal identity.

GA is built with three interoperable modules:

- 1) Through the “Information & Educational” module, the process of delivering privacy information, collecting consent from the patient, and explaining DNA test results and explaining what they mean to patients is made easier. There are several interactive videos created for genetics and DNA risk recurrence that the patient can watch and interrogate “Genebot”, a custom chatbot made for genetics.
- 2) The “Data retrieval” module provides tools for guided self-analyses and for collecting the genogram, which is essential for GC. In addition, this second module facilitates the physician by suggesting specific DNA tests and providing a bioinformatic platform for clinical and genetic data interpretation.
- 3) Tele-Genetics. Lastly, the platform provides software for releasing a final clinical report as well as “virtualizing” the relationship between patients and healthcare providers through a televisit solution.