

Building an innovative mobile solution to help oncology patients manage nausea symptoms during chemotherapy

Client

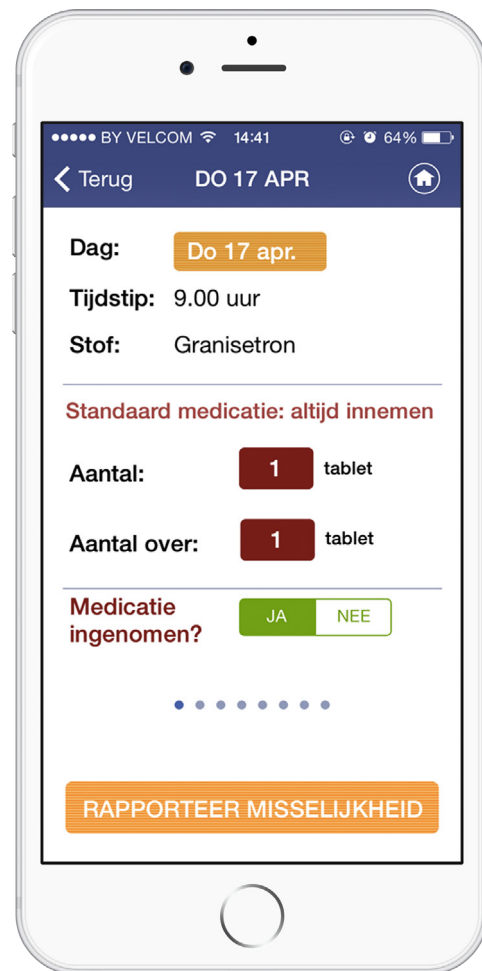
The client is a mobile agency based out in the Netherlands. They needed to hire a team of developers to create a mobile application for oncology patients for, a leading hospital in Amsterdam.

The challenge

The Hospital combines top clinical patient care with great hospitality. To extend its customer care practices, it needed an app to help oncology patients control nausea and vomiting symptoms during the chemotherapy process.

Challenge:

- Help patients to follow a strict treatment plan in an intuitive way;
- Provide tools for real-time doctor-patient communication;
- The app should follow CE marking requirements and undergo certification before it will be used in hospital.



Digitium's role

Digitium created a native iOS application, which consists of two components: Treatment plan and Feedback. The app provides the patient with all treatment-related information and notifications, an option to collect symptoms and real medication in-take history and send it back to a doctor.

Treatment plan

Based on the cancer type, a doctor selects the appropriate treatment plan and submits it to the patient via the system backend. The treatment plan includes Chemotherapy schedule and medications to combat or reduce nausea after chemotherapy.

The patient can see it via the app on the smartphone and follow notifications to make sure nothing is missed. To start the schedule, a patient must select the date when chemotherapy starts and the system will do the rest keeping patients informed about any further steps.

Digiteum's role:

- Designed the systems information architecture;
- Designed and developed the mobile app for patient's use;
- Designed and developed Doctor's interface;
- Optimized the systems UX so that even elderly patients are able to use it on the go.

Feedback section

Chemotherapy always individually affects patients. If the patient experiences severe nausea symptoms, they can take additional medication per doctor instructions. In this case, the patient should report these symptoms as well as any additional medication taken.

This information is further sent back to the doctor in real time. Doctors are also able to review history of any patient before personal check.

Find out more

For more information visit us online at:
www.digiteum.com/mhealth

The result

The solution met the expectations of the client and successfully passed through CE certification process. The app is now widely used in the hospital. Both the client and Digiteum look forward for further cooperation.

The benefits of the app are obvious:

- Provides a real time, automated doctor-patient communication;
- Keeps the doctor aware of the patient's health state and reaction on a prescribed treatment;
- Helps the doctor to optimally set the next treatment plan;
- Helps patients to follow a strict schedule of a chemotherapy process and control symptoms;
- Increased patients' medical adherence.

