

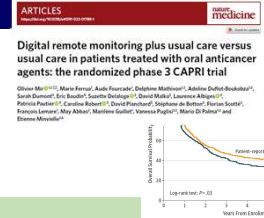
TELEMONITORING OF PATIENTS RECEIVING CHEMOTHERAPY AT HOME



Ghislain Promonet ¹, Laurent Olivier ², Nicolas Gandrille ², Matthieu Plichart ⁴

Fondation Santé Service, Levallois-Perret, France

1- CEO 2- Development & partnership department 3- M.D. Research & Innovation



Context:

For patients receiving anticancer chemotherapy, remote monitoring of symptoms by self-administered questionnaire has proved to be associated with better compliance and quality of life, to decrease the number of hospitalisations linked to serious toxicities, and to potentially improve survival (1-4). Our hospital at home (HAH) supports 1,850 patients daily and carried out more than 30,000 cancer chemotherapy administrations at home in 2023. We are developing telemonitoring to strengthen patient follow-up between administrations, in order to increase their quality of life, by early detection of symptoms and side effects of treatment.

- 1) Basch E, Deal AM, Dueck AC, et al. Overall Survival Results of a Trial Assessing Patient-Reported Outcomes for Symptom Monitoring During Routine Cancer Treatment. *JAMA*. 2017;318(2):197-198. doi:10.1001/jama.2017.7156
- 2) Basch E, Stover AM, Schrag D, et al. Clinical Utility and User Perceptions of a Digital System for Electronic Patient-Reported Symptom Monitoring During Routine Cancer Care: Findings From the PRO-TECT Trial. *JCO Clin Cancer Inform*. 2020;4:947-957. doi:10.1200/CCI.20.00081
- 3) Denis F, Basch E, Septans AL, et al. Two-Year Survival Comparing Web-Based Symptom Monitoring vs Routine Surveillance Following Treatment for Lung Cancer. *JAMA*. 2019;321(3):306-307. doi:10.1001/jama.2018.18085
- 4) Mir O et al. Digital remote monitoring plus usual care versus usual care in patients treated with oral anticancer agents: the randomized phase 3 CAPRI trial. *Nature medicine* 2022; 28:1224-1231

A nursing telemonitoring platform links the patient, the oncology centre and the HAH



Anticipation of administration

The assistant contacts the patient two days before the planned administration at home of chemotherapy injection

- To ensure their presence on the day of treatment
- To check that the patient's health status is compatible with carrying out the treatment



The staff

2 full-time nurses :

- Analyze anomalies in self-questionnaires, respond to patients, coordinate the patient's journey with the health professionals

1 full-time assistant:

- Call the patients 2 days before administration

Dedicated oncologist time:

- Develop decision-making algorithms, to liaise with the HAH medical staff and the oncologist of the prescribing hospital

Dedicated pharmacist time:

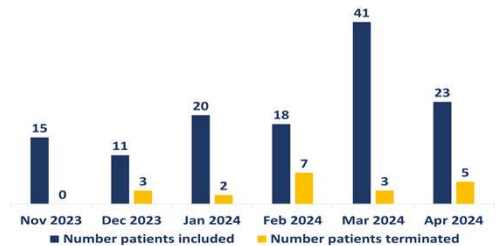
- Develop care protocols ; contribute to the organization ; answer questions about drug treatment

Funding

→ Savings made by reducing losses related to non-administration of chemotherapy (losses of € 706,000 in 2022)

→ Since 2023, a monthly package is paid by the National health insurance :

- to the "remote monitoring operator", a medical professional or a structure employing or grouping together health professionals, including at least one doctor
- to the operator of the digital medical device ("technical package")



Conclusions :

Remote monitoring is a valuable complement to the traditional HAH processes. Not only it improves the quality of the care offered to the patient, but it can potentially allow significant savings in drug costs. A medico-economic study is planned to substantiate this assumption.