

Table S1 Description of the smartphone app features

Betty, patient's application

Registration via France Connect

Registration for surgery (hospital, surgeon, date)

Management of key dates of the perioperative pathway (anesthesiologist appointment, operation date, discharge date, postoperative appointment)

Health information to be provided (medical history, medications, allergy, trusted person)

Note-taking

QR Code summarizing important information and available offline to share at any time with caregivers

Dashboard for monitoring content as the care journey progresses

Content library with questionnaires, checklists, videos, articles, and podcasts for patient education and preparation during preoperative and rehabilitation phases (specific timeline): physical activity, smoking cessation, diet, pain management, skin preparation, hospital virtual visit, scar management...

Post-operative telemonitoring: temperature, pain, painkiller intake

Accompanying notifications: new content, key dates, end and resumption of treatment, progress...

Betty Pro, surgeon's application

Registration via ProSanté Connect

Certification of patient operations (choice of intervention, validation of operation details)

Monitoring of patient operations

Access to health information provided by patients for each operation

Algorithm for calculating the risk of complications

Operations monitoring board table and daily monitoring consultation

Library of content available to the surgeon's patients

Visibility of the content consulted by patients for each operation

Post-operative telemonitoring with alerts: temperature, pain, painkiller intake

Follow-up notifications: new patient, persistent pain or temperature

Onboard statistics (monitoring of complications, number of operations performed, ...)