

High-level Description of the Tele-Scar Use Cases

Use Case: Subscribe to the Platform
Actors: Patient and Bank
Goal: Subscribe and pay the annual fee

Description:

Once a patient registers for an account and begins his/her subscription, he/she will be charged on a yearly basis, starting from the sign-up date. The patient inserts his/her credit card information, the information is sent to the bank to allow the payment. Patients must also insert their personal information. The subscription and annual charge are automatically renewed unless the patient chooses to cancel it before the renewal date.

Use Case: Select Health Care Professional
Actors: Patient
Goal: Choose a health care professional

Description:

Patients must choose from a list of available certified professionals, the health care provider that will be responsible for his/her wound care management plan.

Use Case: Insert Glycemic Levels
Actors: Patient
Goal: Insert the measured glycemic levels

Description:

Patients can insert their glycemic levels as well as indicate at which time of the day those measurements correspond to (before breakfast, before lunch, etc.). Patients can also access a record with their previous glycemic measurements in order to have a better follow-up of their condition.

Use Case: Access Reliable Information
Actors: Patient
Goal: Access reliable information about diabetes and diabetic foot ulcers

Description:

Patients have access to reliable and relevant information about diabetes and diabetic foot ulcers (e.g., how to change their wound dressings).

Use Case: Upload Photos

Actors: Patient

Goal: Upload photos of the diabetic foot ulcers

Description:

Patients record the state of his/her diabetic foot ulcers through photos which are then uploaded into the platform. Patients may also upload alongside with the photos self-notes, observations or complaints, to give a more detailed and personalized description of the foot ulcer.

Use Case: Request Medical Consultation

Actors: Patient and Health Care Professional

Goal: Contact with the physician

Description:

Patients can contact the health care professional responsible for his/her wound care management plan through chat messages or videoconference (only when necessary) in order to obtain additional clarification about the plan or request the physician to view the data uploaded.

Use Case: See Patients

Actors: Health Care Professional

Goal: See the patients he/she is responsible for, as well as their data

Description:

Health Care Professionals can access a list of the patients they will be responsible for, and see the data uploaded in the system by those patients.

Use Case: Set Wound Care Management Plan

Actors: Health Care Professional

Goal: Access the data uploaded by the patient in the platform and develop a wound care management plan

Description:

Health Care Professionals have access to the data (glycemic levels, diabetic foot pictures, and observations) uploaded by patient in order to develop a management plan suitable for each patient, as well as follow his/her evolution.

Use Case: Give Feedback

Actors: Health Care Professional and Patient

Goal: Provide feedback about the wound management plan

Description:

Based on the patient's data, health care professionals can formulate clinical recommendations such as change the periodicity of the photos or recommend a different wound dressing change frequency. This feedback can be given daily or weekly, according to the patient's condition.

Use Case: Schedule Videoconference

Actors: Health Care Professional and Patient

Goal: Contact with the patient

Description:

Whenever the physician considers necessary a videoconference with the patient may be scheduled. Videoconference may be used to give feedback or information to the patient, that could not be given via text. Since it allows a more dynamic interaction with the patient. health care providers can obtain a better perspective/visibility of the diabetic foot ulcer, when the photos were not clear enough, and can also ask the patients questions, they may think relevant.

Use Case: Send alerts/notifications

Actors: Patient

Goal: Send alerts/notifications to the patient daily

Description:

Since patient engagement in the wound care management plan is vital, the platform will send alerts/notifications to the patient daily to assure that the plan is being satisfied (e.g., foot is being assessed, glucose levels are being measured, etc.).