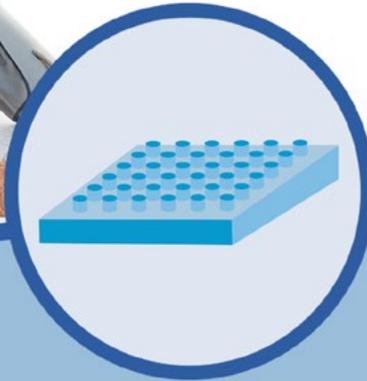




H&S SMART Compliance moving data not people!



Compliance, or adherence, is the patient's ability to comply with the therapeutic prescriptions given by health professionals as precisely as possible.

Compliance plays a key role in the home-care, where patients (e.g.: the elderly, people in chronic conditions in post-acute stages, etc.) usually have to take the medicines autonomously.

THE TARGET

The **problems** likely to arise when self-administering the prescribed medications are:

- patients forget to take the medications
- patients mix up the medications and/or take the wrong dose.

There are **several types of medications** that can be taken at home:

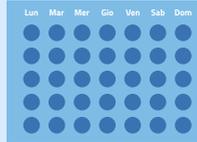
- pills and tablets
- injections
- intravenous treatments

The issue of compliance applies particularly to the first type as both drip and injections are normally administered by specialized nursing staff, while the intake of pills is usually self-made. On the contrary, injections and intravenous treatments usually require the assistance of health professionals.

Smart Compliance aims to:

1. **improving** therapeutic adherence
2. **assessing** the degree of therapeutic adherence

1



The Caregiver refills the boxes of the Pill dispenser

2

The Caregiver plans the patient's medication agenda on the dedicated web portal



3



The patient takes the right medication at the right time thanks to the dedicated alarm

4

The Caregiver monitors the patient's compliance using the web portal

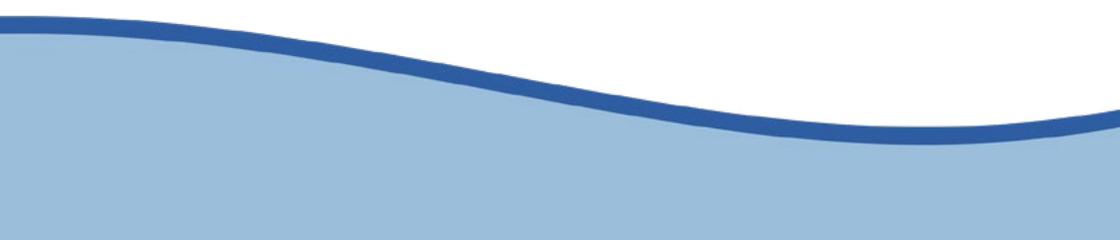


HOW TO IMPROVE

H&S developed a home solution to simplify self-administration of medicines:

- ① Every week the Caregiver (or the patient) refills the boxes with the prescribed medicines according to the uptake time. Every box can contain more than just one medication
- ② Thanks to the remote management and monitoring service, it is easier for the patients to follow the prescribed regimen: all they have to do is take the medicines in the box when alerted by alarm
- ③ This system automatically reminds the patients to take the medications and shows them what is the right box to pick up
- ④ Correct self-administration and compliance can be easily monitored and assessed
- ⑤ The solution works properly if the patients follow the prescribed therapy and take the medications and when poor compliance occurs upon difficulties in organisation and scheduling of therapy

The boxes are filled in with the prescribed medicines week by week, from Monday to Sunday. It is possible to programme up to five medications a day. When it is time to take the medication, the pre-set alarm turns on reminding the patient to take the scheduled medication. The blinking light visual aid shows the patient the box to pick up. When the patient picks up the box from the compartment the alarm turns off and the system records time and type of self-administered medication.



HOW TO ASSESS

- ① The patient's medications are scheduled using a dedicated cloud portal according to:
 - a) frequency (e.g.: every day, every other day, on Saturdays only, etc.)
 - b) uptake time (e.g.: 8:00 am, 12:30 pm, 5:00 pm, 10:00 pm)
 - c) duration of prescribed therapy (first day and last day)
- ② The web portal sends automatic messages to the Pill Organiser (which contains a data SIM card linked to the patient's profile) in order to properly set it up
- ③ As the patient picks up the box, the Pill Organiser sends a message to the portal with date and uptake time
- ④ Then the portal marks in green, yellow or red colour the "administered medications" on the patient's agenda (color-coding changes according to the time elapsed between the audio/video alert and the removal of the box from the compartment)
- ⑤ Compliance is assessed thanks to the feedback provided by the messages sent by the Pill Organiser
- ⑥ Reports on the patient's "degree" of adherence to the prescribed therapy can be printed out on a regular basis



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