

H&S Telemedicine
moving **data** not **people!**



H&S Telemedicine

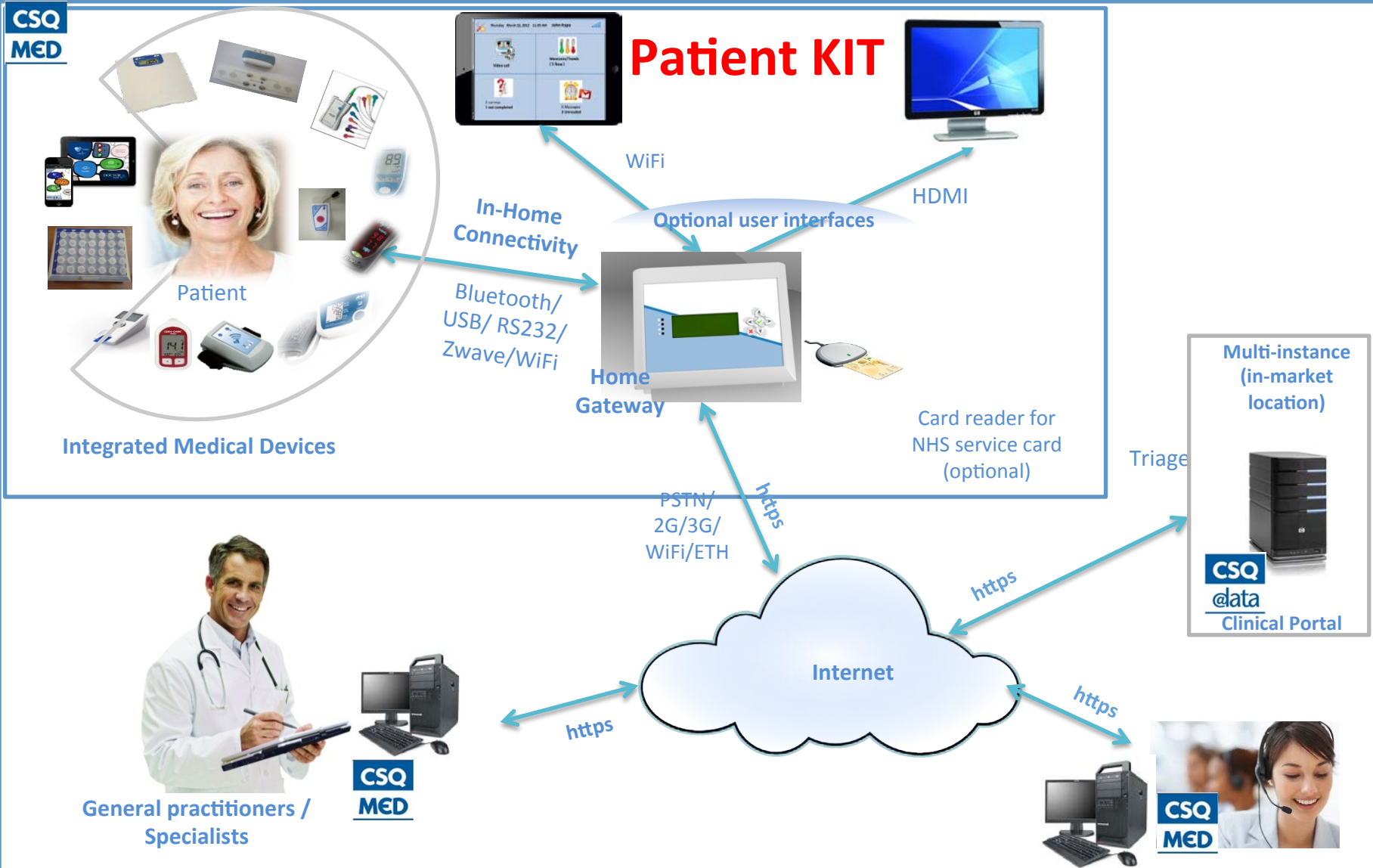


General practitioners



Tele Service

Health Platform Complete Architecture



TeleHealth Services addressing:

moving data not people!

Qualità nel software

- **Chronic Patients** (diabetes, COPD, CHF, asthma) (**lifelong**)
- **Post-Acute Patients** (stroke, myocardial, ictus, etc.,...) (**1 – 6 months**)
- **Patients in charge of hospital ward** (e.g. oncology) (**duration of therapy**)
- **Patients on oxygen therapy, provided with equipment at home** (ventilators for oxygen therapy, nutrition pumps, etc.) (pay per use) (**lifelong**)

General practitioners

Tele Service

TeleHealth Services addressing:

Patients at home - four basic needs:

- Remote monitoring of clinical parameters
 - to prevent deterioration and hospitalization
- Improvement of therapeutic compliance
 - to improve the effectiveness of drugs
 - to save money & resources
- – Improvement of lifestyles and training
 - to avoid the worsening of chronic patients
- "Contact" with the care giver and the referring physician
 - to improve the patient's quality of life and the control by the NHS/Local HS

Health Platform KIT

The telemedicine kit consists of:

- Home Gateway – Hermes 2.0
- Integrated Medical Devices
- Integrated Environmental Sensor



Certified as class IIa Medical Device

Health Platform – Medical Devices

Pulse Oxymeter

Nonin® Onyx II 9560



Nonin® continuous mode



Blood pressure A&D



Bluetooth Thermometer



Health Platform - Medical Devices

1-Lead ECG



Cera Check Hb Plus
Hemoglobin Meter



Oxygen tank

Weight and direct interface (if any)



Health Platform - Medical Devices

Glucometer FORA
G31b



Glucometer FORA
Test N'GO



USB generic Glucometer



Health Platform - Medical Devices

Mobile Call Me

Emergency call
Traceability
(Indoor and Outdoor)



Call ME

Emergency call
(indoor)



Smart Walk

MEMS-based device fitting elderly people movements (indoor and outdoor) and Man Down feature (indoor)



Health Platform - Medical Devices

Scale A&D and Fora



Flow meter in continuous mode to analyze the air flow from ventilator to patient



Health Platform – Environmental Devices



Using the protocol Z-wave

The environmental is able to detect :

- ✓ Flooding
- ✓ Temperature
- ✓ Humidity
- ✓ Brightness
- ✓ Loss Smoke/Gas
- ✓ Presence

Mapping Diseases vs. Medical Devices

| Medical Devices Pathologies | Blood Pressure | Pulse Oximeter | 1-lead ECG | Thermo meter | Weighing Scale | Gluco Meter | Hemoglobin Meter | Smart Walk | Call Me | Help ME | Hermes 2.0 | Environment sensors |
|-----------------------------|----------------|----------------|------------|--------------|----------------|-------------|------------------|------------|---------|---------|------------|---------------------|
| Diabetes | ✔ | ☐ | ☐ | ☐ | ✔ | ✔ | ☐ | ☐ | ☐ | ☐ | ✔ | ☐ |
| Diabetes + | ✔ | ✔ | ✔ | ☐ | ✔ | ✔ | ☐ | ✔ | ☐ | ✔ | ✔ | ☐ |
| COPD | ✔ | ✔ | ☐ | ☐ | ☐ | ☐ | ✔ | ✔ | ✔ | ☐ | ✔ | ☐ |
| COPD + | ✔ | ✔ | ✔ | ✔ | ☐ | ☐ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CHF | ✔ | ✔ | ✔ | ☐ | ✔ | ☐ | ☐ | ☐ | ✔ | ☐ | ✔ | ☐ |
| CHF + | ✔ | ✔ | ✔ | ☐ | ✔ | ☐ | ☐ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Hypertension | ✔ | ☐ | ☐ | ☐ | ✔ | ☐ | ☐ | ☐ | ☐ | ☐ | ✔ | ☐ |
| Elderly People | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ✔ | ✔ | ✔ | ✔ |

Pathology

Medical Device

General practitioners

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