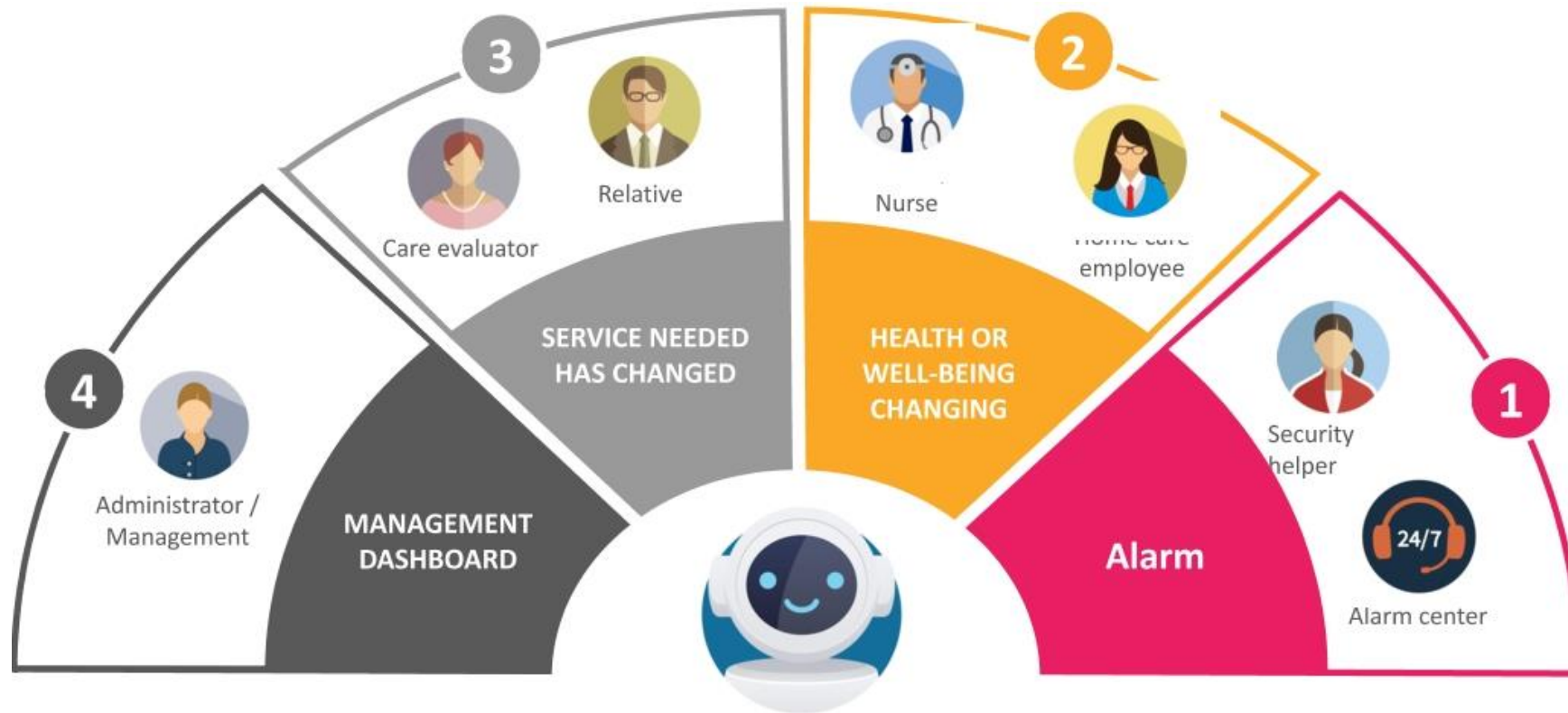



VA4PEC

Virtual Assistant for Precision Elderly Caregivers



Virtual Assistant for Caregivers

Patient information  Text entries  Measurements 

Some key VA4PEC' skills

- Ubiquitous user-friendly smartphone-based APP to be intuitively used by nurses and non-professional caregivers when facing an end patient.
- The nurse will enter all data either by clicking, typing in or dictating to the smartphone. The data will instantaneously moved to the artificial intelligent assistant in the cloud.
- Artificial intelligent assistants can then make additional remarks or questions based on the data collected at the meeting applying the predictive models residing in the cloud.
- The artificial intelligent system monitors the patient's data all the time and will generate an alert if any deviation is detected. The deviation might be both short term disruptions (to trigger an emergency call) or long-lasting (alert on a dangerous trend). The intelligent system may be able to detect that the end patient is developing a more serious health condition that may have not been perceived by the nurse on the spot.
- The proposed system will be able to predict multiple kinds of health conditions and generate alert actions for relevant nursing and caregivers personnel, as well as for all the other stakeholders involved if so requiered.

Some key functions/conditions to be monitored by VA4PEC

CURRICULUM VITAE



Physical performance

- Activities of Daily Living (ADL)
- Instrumental Activities (IADL)
- Eating Deviation
- Physical Activity
- Daily rhythm and its deviations
- Sleeping rhythm and its deviations
- Risk of Institutional Care
- The need for home maintenance

Mental Performance

- Cognition (CPS)
- Depression (DRS)
- Treatment Resistance
- Delirium
- Communication
- Inappropriate behaviour
- Risk of Abuse
- Social activity
- Social relationships



Condition of Health

- Changes in Health (CHESS)
- Risk of falling
- Pain
- Risk of Pressure ulcer
- Risk of Malnutrition
- Risk of Dehydration
- Evaluation of tube feeding
- Smoking & Alcohol use
- Urinary incontinence
- Bowel incontinence
- Catheterization monitoring

Vital Functions

- EWS (Early Warning Score)
- Remote monitoring of COPD
- Remote monitoring of renal failure
- Remote monitoring of hypertension
- Risk of infection
- Pulse
- Respiratory
- Body temperature
- Oxygen Saturation
- Abnormal measured values

Device recommendations

- Suitability of Drug dispenser
- Suitability of Digital blood pressure monitor
- Suitability of Digital Blood glucose meter
- Suitability of GPS-locator
- Suitability of Digital scale
- Suitability of Heart rate & respiration meter

Quality of Life (BETA)

- Experienced Quality of Life (0-10)
- Sense of financial security
- Emotional experience
- Closeness of family relationship
- Health
- Living comfort
- Nutrition
- Activity
- Autonomy
- Experienced comfort

Basic information

- Need for care (MAPLe)
- Home visit scheduling
- Risk of Emergency room visit
- BMI & its changes
- Weight & its changes
- Fat-% & its changes

Monitoring of heart failure

- Scoring of cardiac abnormalities (0-10)
- Producing & understanding speech
- Cough
- Chest pain & sensations
- Shortness of breath
- Dizziness

Diabetes

- Diabetes treatment balance
- Bloodsugar & its changes
- Insulin use & its changes
- Monitoring of ketones
- Skin infections
- Vision problems (BETA)

Medication

- Medication taking abnormalities
- INR
- Medication side effects (BETA)

Previous success stories using AI support for care of the elderly

Home Care Customer was able to live 6 months longer at home

Customer's ability to live at home has decreased

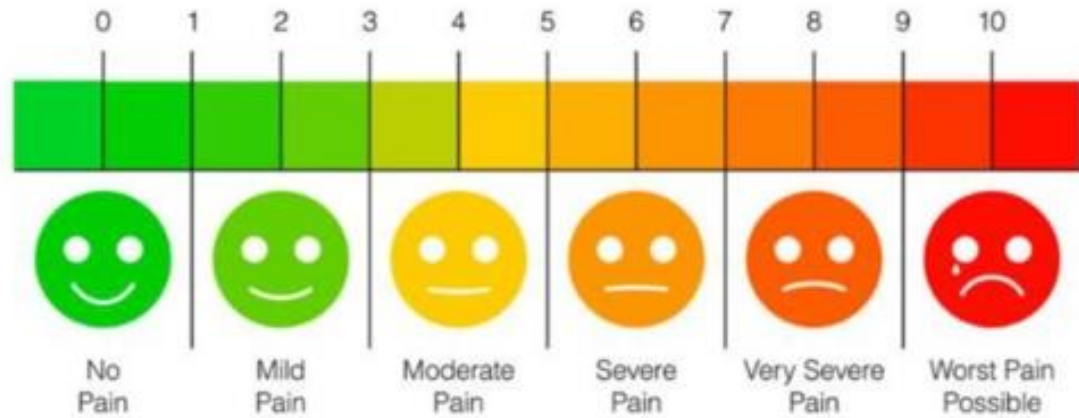


Reduces unnecessary Home Care Visits by 75% during Rush Hours



Courtesy of Gillie

PAIN SCALE



Arranges customers in order of priority

Arranges customers in order according to the criticality of the deviations.
Customers can be viewed in the order of e.g. their degree of depression or pain.

Deviation alerts

Alerts of any deviations in the customer's well-being.

For further information, please contact: Dr. Ing. Eduardo Barrera
Email: jebmad@gmail.com
Whatsapp: +34.629.055.697