

CASPER

Collect patient consent

When Casper is used, check if patient gave consent to data processing (recording, transferring, sharing, storing etc). .

When consent given, check if this was done by right person (capacity of consent).

Giving instructions (i.e. teaching how to prepare meal)

Prior to instructing how to prepare a meal, confirm if this is what user wants.

When casper is giving instructions, speak in clear language.

When user is addressed, do so according to user's auditory and visual capabilities (i.e. through hearing aid if hard of hearing, large font if visually impaired etc.).

When casper is giving instructions, always confirm user understands what needs to be done.

When casper detects an irregularity or confusion in user's behaviour, identify issue and adjust accordingly.

When user indicates instructions are unclear, repeat instructions as many times as necessary.

When person is addressed, do so politely and in accordance with the cultural requirements (title, informal versus formal etc.).

When meal is to be prepared, must be done in terms of the indicated cultural standards and personal preferences.

When the user requests explanation, robot must provide one.

Giving Reminders

When giving reminders, do so according to the users preference plan as defined in settings.

When give reminder, do so politely and in accordance with the cultural requirements (title, informal versus formal etc.

When reminder is given, explain clearly why this is done.

When critical reminders are given, ensure patient completes task and follows instructions.

When critical reminders are not followed, this needs to be communicated to a health care provider or family member as per user settings.

Communicating with family members and healthcare providers

When Casper detects potential danger (fall, conditions of stroke etc.), immediately contact support.

When contacting support, only contact approved family members and health care support in order according to context and as determined per user settings.

When dangerous situation is detected and user is unable to communicate with family member or healthcare provider himself, casper will send emergency alert to nominated people.

When emergency alert is sent, nominated people can take over Casper's functionality (movement, camera etc.).

When emergency alert is sent and nominated people do not follow up, contact emergency service.

Find the user in the house/moving in the apartment/entering a different room

When moving in the house, do so carefully with adjusted speed to prevent harm to user.

When moving in the house, only do so if requested by user or if medically indicated.

When moving in the house, casper should not disturb or awake person unless medically indicated.

When moving in house, give auditory and visual signals.

When emergency and person detected in bathroom, casper allowed to enter as per emergency protocol.

When casper is moving through the house, it should remain 1m away from the user.

CASPER Concerns

Exists FollowingUser and noPurpose

When casper do not respect user preferences

//When casper gives false alarm

c1 exists CasperContactHealthCareProvider and (not ({userDangerLevel} > medium1))

When casper monitor regularly wrong emergencies

CASPER main purpose

Any assisting capabilities: Reminder, Helping cooking, etc...

p1 exists CasperContactHealthCareProvider

p2 exists CasperCheckPatientConsent

p3 exists CasperCheckPatientCapacity

p4 exists CasperRecordConsent

p5 exists CasperRemoveConsent

p6 exists CasperGiveInstruction

p7 exists CasperConfirmUserUnderstanding

p8 exists CasperIntendToPrepareMeal

p9 exists CasperPrepareMeal

p10 exists CasperConfirmUserPreferredMeal

p11 exists UserComplainUnclearInstruction

p12 exists CasperRecognizeIssues