Use of techology from the psychologist point of view

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How can technologies assist?

In the managment of:

AUTISM

INTELLECTUAL DISABILITIES

LEARNING DISABILITIES
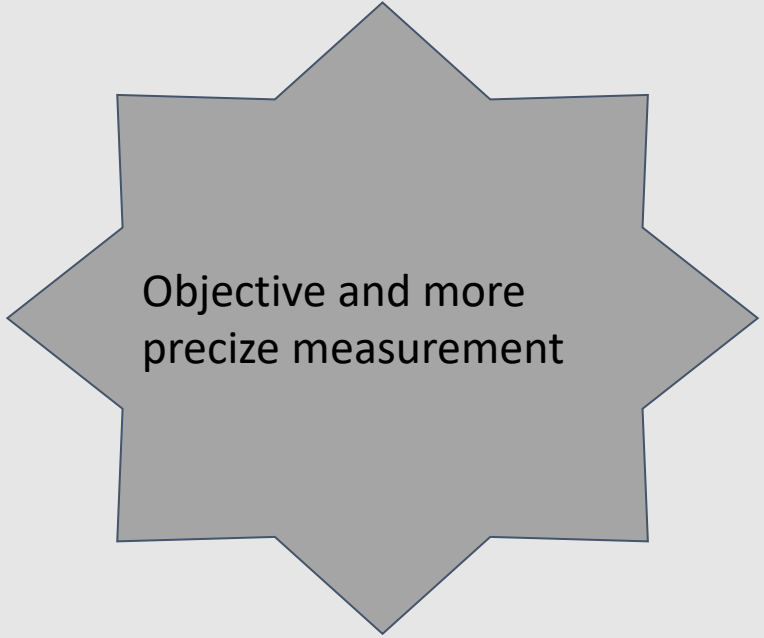
AGE RELATED FORGETTING

1. Evaluation of intellectual and cognitive abilities
2. Diagnosis
3. Providing support for patients and caregivers

Evaluation

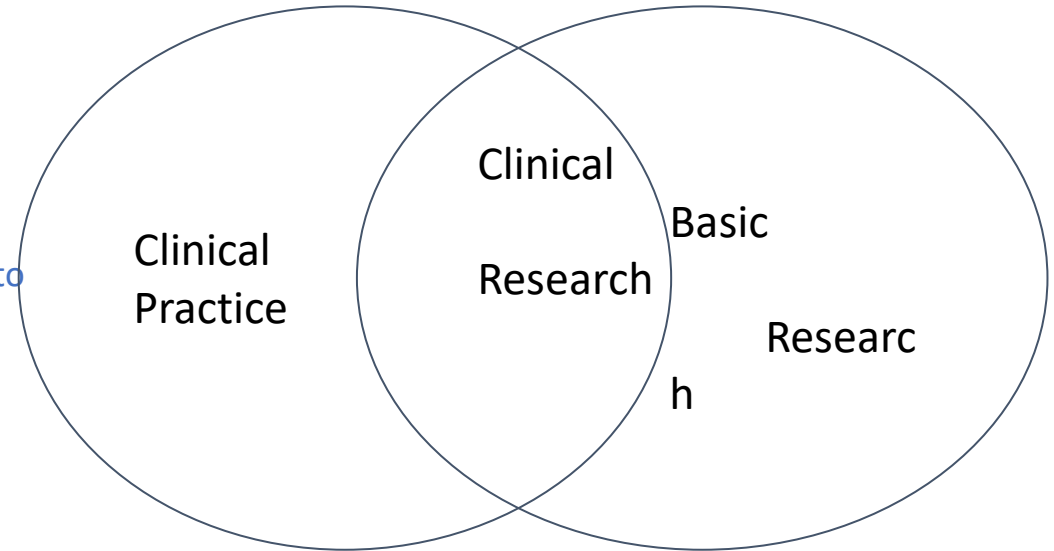We wish also to know what our patients are capable of

Strenghts and Weaknesses

We wish to find specific and early markers related to the problem.

Objective and more precize measurement

Key issues in testing

- Focusing on visuospatial intelligence and other skills

- Simple instructions

- Motivating

- Maintane attention

- Direct and immediate feedback

- No need for a trained neuropsycgologist to administer the tests

- Ecogically valid tests and test situations

- Better and early differential dignostic possibility

Clinical Practice

Clinical

Research

Basic

Research

Testings can be based on

1. Eye movement detection

2. Computarized tests -2D and 3D

3. Using VR or AR

4. Sensor integrated tools and toys

5. Movement detections

6. Classical research tools

Diagnosis

Important factors in diagnosis

Finding early signs → Possibility for early diagnosis

Combination of precise objective and subjective measures → More precise diagnosis

Focusing on both strenght and weakness

Better management plan

Ecologically valid batteries →

But the Difficulties

Normative data collection is long

Test validation procedure is complicated
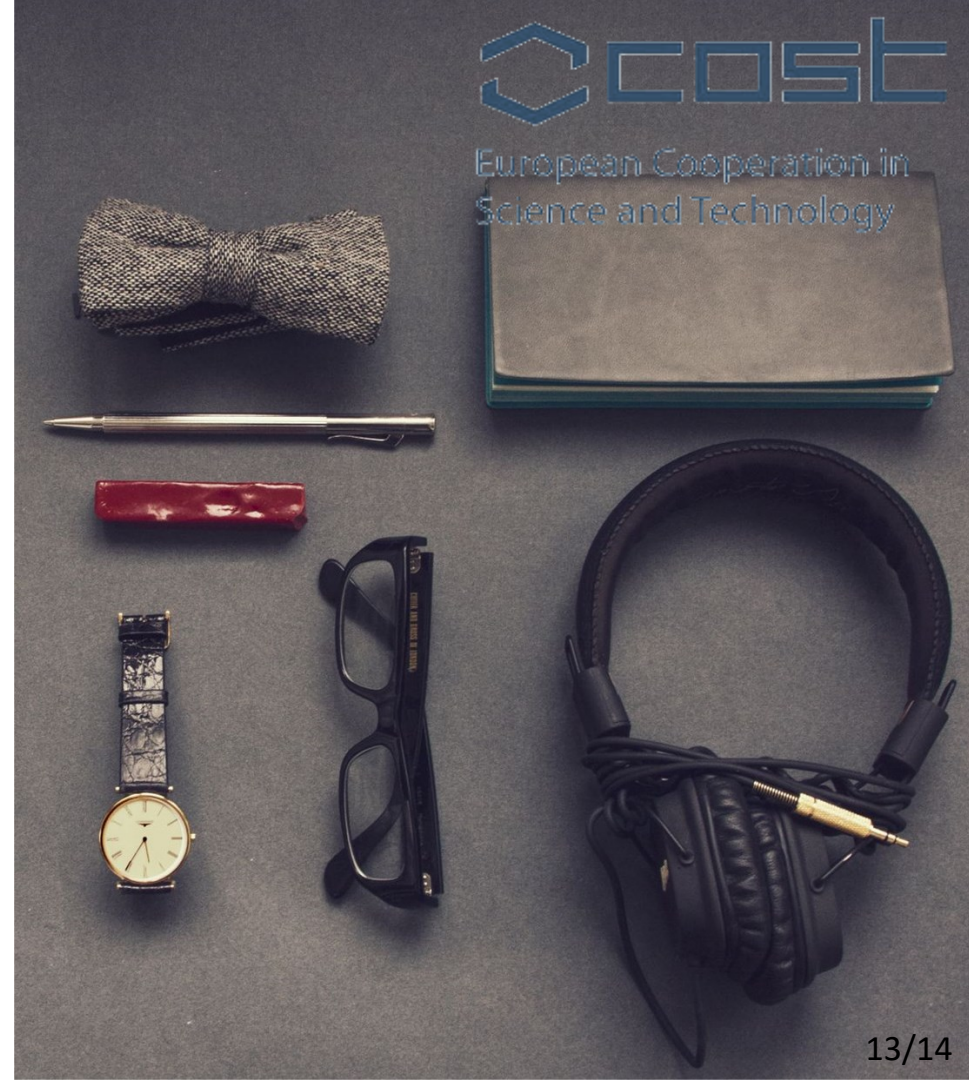
Protocols are missing

Difficult to find a golden standard

Providing support to client and family

Knowledge about all type of assistant technologies to advice on choosing the right ones for the clients.

Give emotional support during the process

Using information collected by the technology for therapeutical purposes

Thanks for your time

- This education materials were developed by the help of CA19104 – COST Action

- Advancing Social inclusion through Technology and EmPowerment (a-STEP)

- https://www.cost.eu/actions/CA19104/#tabs+Name:Description

- https://www.a-step-action.eu/

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