



The use of robot PARO in therapy for children and adolescents from Ukraine



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Purpose:

Evaluation of efficiency and benefits while using robot PARO in therapy of:

► Autism

- Acute stress response
- Speech Developmental Disorders
- ► Intellectual disability
- Behavioral and Emotional Disorders
- Symptoms at risk of developing PTSD
- ► Cerebral Palsy





Target groups:

The PARO robot named "Friderica" has been used for one year as a new therapeutic tool in following situations:
Group sessions for children aged 5 to 12
Psychological consultations for children and adolescents (2 to 18 years old)
Individual psychotherapy for children and adolescents (2 to 18 years old)

Observations:

- The PARO robot has proven its effectiveness in interacting with children with a variety of mental disorders.
- During their interactions with the robot PARO, children and adolescents were petting, hugging, talking with the robot, role-playing.
 Children respond positively and the results showed that the moods improved.





Due to the similarities of the robot PARO with an animal such (soft fur and realistic movements), children usually didn't realise the difference.
 That's why during the first communication they perceived robot PARO as a living being.





There were such cases where children interacted with the robot PARO like with a pet.





Children were feeding robot PARO, treating it, and played out different models of interaction.



At first, some children feared the sound of the Paro robot. However, after a few interactions they became accustomed to it or even attached.



 The PARO robot has also been used for sensory integration therapy.
 Especially for children with sensory hypersensitivity, it helped them to reduce sensory sensitivity.



Soft coat and vibration of PARO provided sensory experience and acted as a source of stimulation of tactile and auditory feelings during sensory integration.





- ▶ The PARO robot is used as a model od body parts in children with physical disabilities (body scheme disorder).
- As well as in the formation of social skills, for example, children with autism were able to establish eyes contact, by focusing on the eyes and nose of the robot.



One of the following functions of robot PARO became the relaxation function

As well as stimulation and motivation for children to excercise and activities.



Conclusions:

- To summarise you can say that robot PARO improves the childs emotional state and lowers the level of anxiety and tension.
- It aslo improves interaction, faciliting social communication and building trust in the environment.
- Sensory function plays an imprtant role, as the robot provides many sensory stimuli (such as stimulating and calming) and it has a positive affect on feelings.



Thank you very much!



