

Psychophysiological research of auditory responses in the severely and profoundly mentally retarded : Maltidimensional assessment by auditory brainstem response, slow vertex response, and variables of autonomic functions

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Psychophysiological research of auditory responses in the severely and profoundly mentally retarded : Maltidimensional assessment by auditory brainstem response, slow vertex response, and variables of autonomic functions

Research Project

Project/Area Number

60510053

Research Category

Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

Psychology

Research Institution

Kanazawa University

Principal Investigator

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Keywords

Severly and Profoundly Mentally Retarded Persons / Auditory Brainstem Response / Phasic HR Response / tonic HR反応

Research Abstract

Severly and profoundly mentally retarded persons (SMRs) show a weak responsiveness to enviromental stimuli. In this project, three auditory evoked potentials (auditory brainstem response, middle latency response, and slow vertex response) and some variables of

psychophysiological functions (heart rate, respiration rate, eye movement, and so on) were studied in SMRs.

The main results were as follows: 1. Many SMRs had the higher auditory threshold (above 30dB nHL), as determined by the threshold of ABR (wave V). 2. Peak latencies of evoked potentials and ABR I-V interpeak latencies were prolonged in many SMRs. 3. The phasic descending HR responses to stimuli in living situation increased with development. 4. In the SMRs who didn't show phasic HR responses, tonic HR responses (extension of HR change) to environment were observed. 5. The HR activity to environment couldn't be observed in persons who had severe brainstem dysfunction.

Research Products (2 results)

All Other

All Publications (2 results)

[Publications] 片桐和雄: 小児の精神と神経. 26. 101-109 (1986) ▼

[Publications] KATAGIRI, Kazuo: "Auditory brainstem response and its assessment strategies in the severely and profoundly retarded" Child Psychiatry and Neurology. 26. 101-109 (1986) ▼

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