

1) In case of giving DOCA, the rising ratio of CI concentration of subcuticular tissue liquid was great and on the contrary, the ratio of CI concentration in sweat decreased a little.

2) The above mentioned variation was the most remarkable on the examinee came from Hokkaido, and no variation was observed on the examinee came from Miyake Island.

3) As for the fact that such a remarkable rising ratio of CI concentration of subcuticular tissue liquid which was paralleled with sweating as that of winter was seldom observed in summer, Chihaya and his mates thought that it was simply because of one of the Homeostasis of metabolism of tissue water in Summer, however, it might be considered that the examinee came from Miyake Island whose function was not used of the high temperature had a little variation because of the activeness of the function of Homeostasis.

40. STUDY ON THE VARIATION OF P.G.R. CAUSED BY THE MUSIC

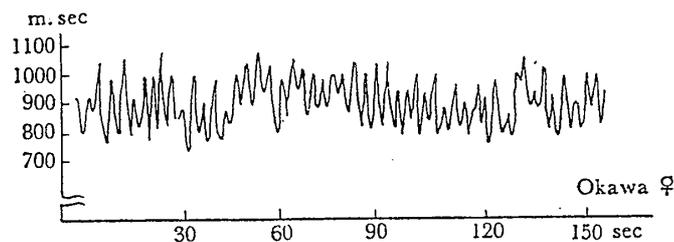
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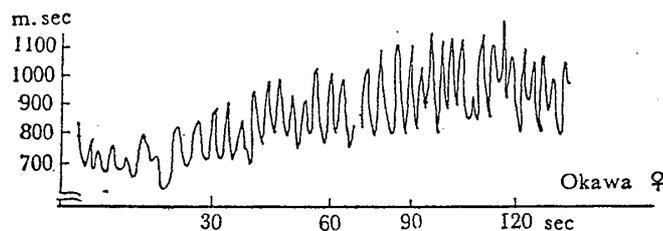
The P.G.R. in case of listening to the music was recorded, and the excitability of the brain was observed indirectly.

For instance, in case of giving the simple mental arithmetic to the examinees such as $100 \div 25$ or 15×3 , each one showed remarkable variation, however, their process were different. The variation was observed very clearly in case of listen-

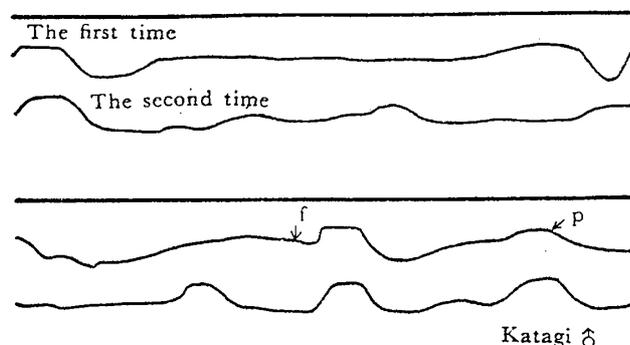
"The variation of pulse rate in accordance with" the speed of music
Piano Sonata No.12 Mov.IV Allegro



Symphony No.5 Mov.II Andante con moto



* P.G.R. in accordance with music
Symphony No.5 Mov.II Andante conmoto



ing the ominous music which is effective for stage. In case of listening the Piano Sonata No.12, Mov.IV Allegro, no variation of the pulse rate was observed on its process, but in case of listening of the Symphony No.5 Mov.II Andante conmoto, the pulse rate decreased gradually.

The very same variation was observed in case of listening the favorite music and in case of listening the same music again some other time.

Letting the music master the to listen Invitation to the Dance of C. Weber, the appropriate variations of the P.G.R. were observed on Moderato part and on Allegro Vivace. In case of letting the same examinee read the same musical note, some difference was observed at first, but gradually the variation like the one that was found in case of listening. As the music was simple at first, the variation of P.G.R. of the listeners were a little, however, the variation was complicated in case of reading the musical note, and at the same time, the effort to tune with the music with the foot was found in accordance with the electromyogram.

According to the P.G.R., the authors learned the facts that ; (1) it's capable for us to analyze the condition of excitement. (2) There were the great differences in hearing ability. (3) The excitement like the one that was observed in case of listening was often observed in case of reading the musical note, also.

41. STUDY ON THE QUANTITY OF MOTION AND CALORIE CONSUMPTION OF INFANTS

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As it seemed that the free exercise of infant was under taking comparatively freely so as to satisfy the physical wants, as it's the exercise which was mostly unrestrained, however, the few peoples know of what variation the quantity of motion made in accordance with the development and how much the quantity of motion were in spite of that those were considered to be important subjects for the guidance of actual fosterage.