

RESULTS

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Table (1) showed the age distribution of both groups, complex partial seizure (CPS) and idiopathic grand mal epilepsy (GME) groups. It was observed that the younger age group is the most frequent one (58%) in both groups. The older one is the least frequent one, being 16% in CPS group and 18% in the GME group. The mean age is 26.36 ± 10.19 years in the CPS group and 27.48 ± 11.23 years in the GME group.

From table (2) it was noticed that males are more frequent than females representing 82% in CPS group and 88% in the GME group.

Table (3) showed the distribution of the duration of illness in both patient groups. It was observed that the mean duration of the CPS group is 112.02 ± 70.5 months (ms) and that of the GME group is 124.92 ± 81.08 ms.

Table (4) showed that 2% only of both patient groups reached a higher level of education (the college). It also showed that 52% of the CPS group and 46% of the GME group

failed in reaching higher level of education being stopped at the level of prep school. This means that epilepsy is associated with learning difficulties.

From table (5), it was noted that post-traumatic epilepsy is the most frequent one (42%) in the CPS group, followed by post-infection (8%), temporal glioma (4%) and then others. No etiology was detected in 34% in the CPS group and in 100% in the GME group.

Table (6) showed that computerized axial tomography (CT) scan is abnormal in 12% in the CPS group while no abnormalities were detected in the second group. Temporal gliomas represent 4%, asymmetry of both lateral ventricles represent 4%, while stroke 2% and encephalomalacia 2%.

Table (7) showed that abnormal electroencephalographic (EEG) manifestations were 78% in the CPS group and 58% in the GME group. The right and left hemispheric abnormalities of the CPS group were (18%, 22% respectively) more than that of the GME group (12%, 16% respectively).

From table (8) it was observed that there is a significant difference between the four subgroups of both CPS and GME groups (classified according to different lengths of epilepsy duration) on the full intelligence quotient(I.Q.) and deterioration index (Det. Ind.) scales, while there is no significant difference on the schizophrenic scale. It also showed that the lowest full I.Q. (72.17 ± 15.23 in the CPS and 73.18 ± 15.23 in the GME) and the highest Det. Ind. (30.57 ± 29.01 in the CPS and 23.42 ± 11.84 in the GME) were in the subgroup of the longest duration and vice versa.

Table (9) showed that there is a significant difference between the three subgroups of the CPS group on the full I.Q. and the Det. Ind. scales and between them on the Det. Ind. scale of the GME group while there is no significance difference on the schizophrenic scale. It was observed that the lowest full I.Q. (reaching the borderline I.Q. scores of the standards) and the highest Det. Ind. were in the subgroup of the highest frequency.

From table (10) it was noted that in the CPS group, there is a negative significant correlation (sig. cor.)

As for the upper range of the Det. Ind. (> 20), there is a dependency ($\chi^2 = 4.52$, $P < 0.05$) between EEG abnormalities normalities and a patient being a CPS or a GME, it is more likely for a GME patient to have EEG abnormalities than a CPS would.

From table (21) we observed that there is a significant difference between the CPS and the GME groups on the anxiety, psychosomatic and depressive scales of MSHQ. This means that they occur more frequently in the CPS group. It was noted that the mean scores of the scales reach the pathologic value (score ≥ 8) except that of hysteria in both groups.

There is a significant difference between the four subgroups of the CPS (classified according to the EEG laterality) on the anxiety ($F = 2.17$, $P < 0.05$) and depressive ($F = 2.10$, $P < 0.05$) scales., and of the GME on the anxiety ($F = 2.12$, $P < 0.05$) and psychosomatic ($F = 2.21$, $P < 0.05$) scales. It was observed that the right focus subgroups have the higher (worst) means on the anxiety, depression and psychosomatic scales while the normal EEG subgroups have the least scores (Table 22).

Table (23) showed that the incidence of significant (pathologic) neurotic traits (≥ 8) were surprising. The depressive trait represent the higher frequency of incidence, being 82% in the CPS group and 58% in the GME group followed by obsessionalism, anxiety, psychosomatic, phobia and then hysteria, which represent the lower frequency of incidence being 18% in the CPS and 14% in the GME. Also, it was noted that the incidence of abnormal neurotic traits were higher in the CPS than in the GME except for the phobic scale which is the reverse.

From table (24), it was noted that there is no significant difference between the CPS and the GME groups on the selected scales of the MMPI, schizophrenia, paranoia and psychopathy. However the mean scores of these scales were higher in the CPS group than in the GME group.

Table (25) showed that there is a significant difference on the scales of schizophrenia and psychopathy between the subgroups of the CPS classified according to the presence and laterality of the EEG temporal foci. The left subgroup has the highest (worst) mean scores of schizophrenia (71.18 ± 9.65) and psychopathy ($56.18 \pm$

9.18).

From table (26) it was noted that the pathologic personality traits (score ≥ 70) of the MMPI were common in the CPS group than in the GME group. Psychopathy was the least psychopathology in both groups.

Table (1): Age distribution of both groups, complex partial seizure (CPS) and idiopathic grand mal epilepsy (GME).

| Group Variable | GPS | | | | GME | | | |
|-------------------|-----|-----|-----------|-------|-----|-----|-----------|-------|
| | No. | % | \bar{X} | S.D. | No. | % | \bar{X} | S.D. |
| 15-25 ys | 29 | 58 | 19.13 | 3.34 | 29 | 58 | 19.55 | 3.07 |
| 26-35 ys | 13 | 26 | 31.23 | 2.91 | 12 | 24 | 29.33 | 2.50 |
| 36-45 ys | 8 | 16 | 41.62 | 5.04 | 9 | 18 | 42.37 | 4.57 |
| Total | 50 | 100 | 26.36 | 10.19 | 50 | 100 | 27.48 | 11.23 |

No. = Number of patients

\bar{X} = Mean

ys. = years

S.D. = Standard deviation

Table (2): Sex distribution of both groups, CPS and GME group.

| Group Variable | CPS | | GME | |
|-------------------|-----|-----|-----|-----|
| | No. | % | No. | % |
| Male | 41 | 82 | 44 | 88 |
| Female | 9 | 18 | 6 | 12 |
| Total | 50 | 100 | 50 | 100 |

Table (5): Etiology of epilepsy in both patient groups

| Group Variable | CPS | | GME | |
|---------------------------|-----|-----|-----|-----|
| | No. | % | No. | % |
| Trauma | 21 | 42 | 0 | 0 |
| Infections | 4 | 8 | 0 | 0 |
| Temporal glioma | 2 | 4 | 0 | 0 |
| Neurocutaneous disease | 1 | 2 | 0 | 0 |
| Stroke | 1 | 2 | 0 | 0 |
| Iatrogenic | 1 | 2 | 0 | 0 |
| Infantile jaundice | 1 | 2 | 0 | 0 |
| Idiopathic | 19 | 38 | 50 | 100 |
| Total | 50 | 100 | 50 | 100 |

Table (6): Results of computerized axial tomography (CT) scan of both patient groups.

| Group Variable | CPS | | GME | |
|--------------------------------------|-----|-----|-----|-----|
| | No. | % | No. | % |
| I. Normal CAT | 44 | 88 | 50 | 100 |
| II. Abnormal | | | | |
| 1- Temporal glioma | 2 | 4 | 0 | 0 |
| 2- Asymmetry of lateral ventricles | 2 | 4 | 0 | 0 |
| 3- Post-stroke | 1 | 2 | 0 | 0 |
| 4- Temporo-parietal encephalomalacia | 1 | 2 | 0 | 0 |
| Total | 50 | 100 | 50 | 100 |

Table (7): Electroencephalographic (EEG) results of the two patient groups.

| Group Variable | CPS | | GME | |
|-------------------|-----|-----|-----|-----|
| | No. | % | No. | % |
| I. Normal EEG | 16 | 32 | 21 | 42 |
| II. Abnormal EEG | 34 | 78 | 29 | 58 |
| 1- Right focus | 9 | 18 | 6 | 12 |
| 2- Left focus | 11 | 22 | 8 | 16 |
| 3- Bilateral foci | 14 | 28 | 15 | 30 |
| Total | 50 | 100 | 50 | 100 |

Table (8): Shows the F-test scores between the four subgroups of both patient group classified according to the length of illness duration on some selecte psychometric variables.

| Group | subgroup variable | 1-5 ys. | | 6-10 ys. | | 11-15 ys. | | 16-20 ys. | | F | P |
|-------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|------|--------|
| | | \bar{X} | S.D. | \bar{X} | S.D. | \bar{X} | S.D. | \bar{X} | S.D. | | |
| CPS | Full I.Q | n = 15 86.66 | 15.37 | n = 17 79.54 | 13.80 | n = 11 76.23 | 12.40 | n = 7 72.17 | 15.23 | 2.25 | < 0.05 |
| | Det. Ind. | 13.40 | 8.14 | 19.70 | 8.58 | 22.27 | 11.25 | 30.57 | 29.01 | 2.71 | < 0.05 |
| | Schizophrenia | 57.46 | 11.45 | 63.94 | 11.11 | 64.18 | 14.10 | 65.28 | 12.75 | 1.12 | n.s. |
| GME | Full I.Q. | n = 16 85.35 | 11.07 | n = 14 83.33 | 9.62 | n = 6 80.06 | 13.51 | n = 14 73.18 | 15.23 | 2.19 | < 0.05 |
| | Det. Ind. | 11.75 | 8.18 | 20.16 | 13.04 | 21.29 | 11.83 | 23.42 | 11.84 | 3.37 | < 0.05 |
| | Schizophrenia | 60.00 | 9.51 | 59.85 | 11.54 | 57.16 | 11.85 | 65.85 | 11.50 | 1.25 | n.s. |

I.Q = Intelligence Quotient

Det. Ind. = Deterioration Index

n = Number of patients

n.s. = Non significant

< 0.05 = significant

Table (9): Shows the F-test scores between the three subgroups of both patient groups classified according to the frequency of fits per month some selected psychometric variables.

| Group | subgroup variable | 1-5 month | | 6-10 month | | > 100 month | | F | P |
|-------|----------------------|-----------------------|------|-----------------------|------|-----------------------|------|------|-------|
| | | \bar{X} | S.D. | \bar{X} | S.D. | \bar{X} | S.D. | | |
| CPS | Full I.Q. | n = 22 86.40 15.87 | | n = 16 80.25 14.28 | | n = 12 71.83 11.15 | | 2.23 | < 0.0 |
| | Det. Ind. | 13.86 8.52 | | 22.12 8.03 | | 27.33 9.86 | | 2.19 | < 0.0 |
| | Schizophrenia | 63.86 11.59 | | 59.18 13.04 | | 63.33 12.34 | | 0.73 | n.s |
| GME | Full I.Q. | n = 37 86.33 14.15 | | n = 10 81.15 12.91 | | n = 3 75.9 15.03 | | 1.12 | n.s |
| | Det. Ind. | 15.37 10.33 | | 22.00 4.35 | | 30.90 10.51 | | 6.27 | < 0.0 |
| | Schizophrenia | 60.89 10.70 | | 62.00 13.54 | | 63.33 9.01 | | 0.09 | n.s |

Table (10): Correlations between Intelligence Quotients (IQs) and Det. Ind. of the Wechsler-Bellevue Adult Intelligence Scale (WAIS) with some neurological variables.

| Group | Variable | Verbal I.Q. | Performance I.Q. | Full I.Q. | Det. Ind. |
|-------|---------------------|---------------------|---------------------|---------------------|-------------------|
| CPS | Duration of illness | - 0.36 [*] | - 0.21 | - 0.27 [*] | 0.34 [*] |
| | Frequency of fits | - 0.19 | - 0.92 [*] | - 0.28 [*] | 0.32 [*] |
| | Status epilepticus | - 0.12 | - 0.15 | - 0.31 [*] | 0.33 [*] |
| GME | Duration of illness | - 0.27 [*] | - 0.21 | - 0.23 | 0.28 [*] |
| | Frequency of fits | - 0.09 | - 0.19 | - 0.16 | 0.44 [*] |
| | Status epilepticus | - 0.12 | - 0.14 | - 0.29 [*] | 0.51 [*] |

Critical value = ± 0.27

* = Significance ($P < 0.05$)

Table (11): Correlations between memory subscales of the WAIS with some neurological variables

| Group | Variable | Information | Digit span | Digit symbol |
|-------|---------------------|---------------------|---------------------|---------------------|
| CPS | Duration of illness | - 0.29 [*] | - 0.31 [*] | - 0.13 |
| | Frequency of fits | - 0.21 | - 0.32 [*] | - 0.42 [*] |
| GMC | Duration of illness | - 0.18 | - 0.35 [*] | - 0.27 [*] |
| | Frequency of fits | - 0.12 | - 0.23 | - 0.34 [*] |

Critical value = ± 0.27

* Significance ($P < 0.05$).

Table (12): Correlations between some cognitive variables of the WAIS and some selected personality variables of the Minnesota Multiphasic Personality Inventory (MMPI).

| Group | Cognitive variable Personality variable | Verbal I.Q | Performance I.Q | Full I.Q | Det. Ind.. |
|-------|--|------------|-----------------|----------|------------|
| CPS | Schizophrenia | - 0.28* | - 0.17 | - 0.33* | 0.29* |
| | Paranoia | - 0.25 | - 0.21 | - 0.16 | 0.30* |
| GME | Schizophrenia | - 0.42* | - 0.20 | - 0.35* | 0.31* |
| | Paranoia | - 0.34* | - 0.24 | - 0.28* | 0.09 |

Critical value = ± 0.27

* = Significance ($P < 0.05$).

Table (13): Correlation between some selected personality variables of MMPI with some neurological variables.

| Group | Variable | Psychopathy | Paranoia | Schizophrenia |
|-------|---------------------|-------------|----------|---------------|
| CPS | Duration of illness | 0.24 | 0.09 | 0.19 |
| | Frequency of fits | 0.09 | 0.12 | 0.07 |
| | Status epilepticus | 0.10 | 0.29* | 0.31* |
| GME | Duration of illness | 0.02 | 0.18 | 0.17 |
| | Frequency of fits | 0.14 | 0.16 | 0.09 |
| | Status epilepticus | 0.17 | 0.27* | 0.32* |

Critical value = ± 0.27

* = Significance ($P < 0.05$)

Table (14): Correlations between personality variables of Middlesex Hospital Questionnaire (MSHQ) with some neurological variables.

| Group | Variable | Anxiety | Phobia | Obsession- alism | Psychoso- matic | Depres- sion | Hysteria |
|-------|---------------------|-------------------|-------------------|---------------------|--------------------|-------------------|----------|
| CPS | Duration of illness | 0.28 [*] | 0.24 | 0.12 | 0.17 | 0.35 [*] | 0.12 |
| | Frequency of fits | 0.29 [*] | 0.23 | 0.09 | 0.07 | 0.10 | 0.03 |
| GME | Duration of illness | 0.23 | 0.28 [*] | 0.23 | 0.28 [*] | 0.03 | 0.24 |
| | Frequency of fits | 0.35 [*] | 0.05 | 0.06 | 0.13 | 0.15 | 0.01 |

Critical value = ± 0.27

* = Significance ($P < 0.05$)

Table (15): Numbers and percentages of some abnormal clinical symptoms of autonomic variables in both groups.

| Variable | CPS n=50 | | GME n=50 | | t for ratios | P |
|----------------------------|----------|----|----------|-------|-----------------|--------|
| | No. | % | No. | % | | |
| Palpitation | 14 | 28 | 11 | 22 | 0.69 | n.s |
| Flushing | 9 | 18 | 6 | 12 | 0.84 | n.s. |
| Dizziness | 15 | 30 | 6 | 12 | 2.20 | < 0.05 |
| Fainting | 9 | 18 | 4 | 8 | 1.98 | < 0.05 |
| Sweating | 12 | 24 | 10 | 20 | 0.48 | n.s. |
| Bladder disturbances | 6 | 12 | 5 | 10 | 0.32 | n.s. |
| Impotence | 6 | 50 | 2 | 16.66 | 1.97 | < 0.05 |
| (n. of married males = 12) | | | | | | |

Table (16): Number and percentages of abnormal results of some autonomic tests in both groups.

| Variable | CPS n=50 | | GME n=50 | | t for ratio | P |
|--------------------------------------|----------|----|----------|----|----------------|--------|
| | No. | % | No. | % | | |
| Blood pressure response to stand | 15 | 30 | 6 | 12 | 2.20 | < 0.05 |
| Blood pressure response to stress | 12 | 24 | 5 | 10 | 1.99 | < 0.05 |

Table (17): Numbers and percentages of abnormal results of electrocardiogram (ECG) in both groups.

| Variable | Group | CPS n=50 | | GME n=50 | | t for ratios | P |
|----------------------------|-------|----------|----|----------|----|-----------------|------|
| | | No. | % | No. | % | | |
| 1- Arrhythmia | | 5 | 10 | 3 | 6 | 0.73 | n.s. |
| 2- P. wave | | 2 | 4 | 1 | 2 | 0.58 | n.s. |
| 3- P-R interval | | 2 | 4 | 1 | 2 | 0.58 | n.s. |
| 4- QRS complex | | 1 | 2 | 0 | 0 | 1.01 | n.s. |
| 5- QRS axis | | 1 | 2 | 0 | 0 | 1.01 | n.s. |
| 6- ST segment | | 0 | 0 | 1 | 2 | 1.01 | n.s. |
| 7- T wave | | 0 | 0 | 1 | 2 | 1.01 | n.s. |
| 8- Prolonged Q-Tc interval | | 8 | 16 | 5 | 10 | 0.89 | n.s. |

Table (18): Means (\bar{X}) and standard deviations (S.D.) of some cognitive variables as measured by the WAIS of CPS and

| Variable | CPS n=50 | | GME n=50 | | t | P |
|------------------|-----------|-------|-----------|-------|------|--------|
| | \bar{X} | S.D. | \bar{X} | S.D. | | |
| Information | 5.21 | 2.86 | 8.24 | 2.66 | 2.19 | < 0.05 |
| Digit span. | 5.20 | 1.41 | 8.64 | 3.31 | 2.27 | < 0.05 |
| Verbal I.Q. | 78.32 | 14.53 | 80.92 | 13.75 | 0.91 | n.s. |
| Performance I.Q. | 81.66 | 14.19 | 84.00 | 13.69 | 0.83 | n.s. |
| Full scale I.Q. | 79.46 | 14.40 | 81.08 | 13.26 | 0.58 | n.s. |
| Det. Ind. | 19.90 | 14.22 | 18.88 | 11.78 | 0.39 | n.s. |

Table (19): The F-test scores between the four subgroups of both patient groups classified according to laterality of the EEG abnormalities on some selective cognitive variables of WAIS.

| Group | subgroup variable | Bilateral foci | | Left focus | | Right focus | | Normal EEG | | F | P |
|-------|-------------------|----------------|-------|------------|-------|-------------|-------|------------|-------|------|--------|
| | | X̄ | S.D. | X̄ | S.D. | X̄ | S.D. | X̄ | S.D. | | |
| CPS | | n = 14 | | n = 11 | | n = 9 | | n = 16 | | | |
| | Verbal I.Q. | 78.00 | 14.73 | 71.11 | 13.30 | 79.90 | 15.61 | 98.31 | 15.34 | 2.19 | < 0.05 |
| | Performance I.Q. | 78.85 | 17.19 | 81.75 | 12.76 | 76.88 | 10.26 | 88.18 | 14.25 | 2.11 | < 0.05 |
| | Full I.Q. | 77.78 | 16.19 | 78.87 | 13.32 | 80.11 | 16.50 | 81.90 | 13.40 | 0.17 | n.s. |
| | Det. Ind. | 18.50 | 9.92 | 29.00 | 16.02 | 19.55 | 11.95 | 14.43 | 9.95 | 2.12 | < 0.05 |
| GME | | n = 15 | | n = 8 | | n = 6 | | n = 21 | | | |
| | Verbal I.Q. | 79.33 | 14.43 | 74.00 | 9.97 | 82.37 | 16.07 | 83.47 | 13.35 | 0.83 | n.s. |
| | Performance I.Q. | 83.73 | 13.72 | 84.50 | 17.73 | 84.16 | 12.70 | 84.33 | 13.30 | 0.01 | n.s. |
| | Full I.Q. | 82.20 | 13.33 | 80.87 | 16.25 | 76.66 | 11.14 | 83.04 | 13.15 | 0.38 | n.s. |
| | Det. Ind. | 22.80 | 10.59 | 26.75 | 15.13 | 22.33 | 12.76 | 12.85 | 8.60 | 3.75 | < 0.05 |

Table (20): Chi square (χ^2) values between Det. Ind. in normal and abnormal EEG subgroups, and the two patient groups CPS & GME.

| Variable | subgroup Group | Abnormal EEG | | Normal EEG | | χ^2 -value | P |
|------------------------|-------------------|--------------|----|------------|----|-----------------|--------|
| | | No. | % | No. | % | | |
| Possible deterioration | CPS | 7 | 14 | 6 | 12 | 1.39 | n.s. |
| 11-20 | GME | 8 | 16 | 5 | 10 | | |
| Sure deterioration | CPS | 7 | 14 | 6 | 12 | 4.52 | < 0.05 |
| > 20 | GME | 19 | 38 | 3 | 6 | | |

Table (21): Means and standard deviations of personality variables on MSHQ of both patient groups CPS & GME.

| Variable | Group | CPS n=50 | | GME n=50 | | t | P |
|----------------|-------|-----------|------|-----------|------|------|--------|
| | | \bar{X} | S.D. | \bar{X} | S.D. | | |
| Anxiety | | 9.86 | 4.54 | 7.61 | 3.58 | 2.13 | < 0.05 |
| Phobia | | 7.32 | 3.40 | 8.64 | 3.16 | 0.48 | n.s. |
| Obsessionalism | | 9.34 | 3.06 | 9.30 | 2.90 | 0.06 | n.s. |
| Psychosomatic | | 9.26 | 3.88 | 7.68 | 3.26 | 2.20 | < 0.05 |
| Depression | | 10.00 | 3.80 | 8.38 | 3.28 | 2.27 | < 0.05 |
| Hysteria | | 6.20 | 2.77 | 5.28 | 2.71 | 1.27 | n.s. |

Table (22): The significant F-test scores between the four subgroups of both patient group CPS and GME on the neurotic variables of MSHQ.

| Group | subgroup Variable | Bilateral foci | | Left focus | | Right focus | | Normal EEG | | F | P |
|-------|----------------------|----------------|------|----------------|------|----------------|------|----------------|------|------|--------|
| | | \bar{X} | S.D. | \bar{X} | S.D. | \bar{X} | S.D. | \bar{X} | S.D. | | |
| CPS | Anxiety | n = 14 9.31 | 4.31 | n = 11 8.09 | 3.36 | n = 9 11.55 | 5.44 | n = 16 7.06 | 4.12 | 2.17 | < 0.05 |
| | Depression | 9.42 | 4.70 | 9.22 | 4.86 | 11.83 | 3.47 | 7.81 | 2.85 | 2.10 | < 0.05 |
| GME | Anxiety | n = 15 8.26 | 3.55 | n = 8 7.37 | 4.37 | n = 6 10.66 | 2.33 | n = 21 6.90 | 3.33 | 2.12 | < 0.05 |
| | Psychosomatic | 7.06 | 3.02 | 7.12 | 3.83 | 11.50 | 3.27 | 6.52 | 2.97 | 2.12 | < 0.05 |

Table (23): Numbers and percentages of normal and abnormal personality traits of MSHQ in both patient groups

| variable Group | Anxiety | | | | Phobia | | | | Obsessionalism | | | |
|-------------------|---------------|----|--------|----|------------|----|--------|----|----------------|----|--------|----|
| | Abnormal | | Normal | | Abnormal | | Normal | | Abnormal | | Normal | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| CPS n=50 | 36 | 72 | 14 | 28 | 22 | 44 | 28 | 56 | 37 | 72 | 13 | 26 |
| GME n=50 | 24 | 48 | 26 | 52 | 25 | 50 | 25 | 50 | 38 | 76 | 12 | 24 |
| variable Group | Psychosomatic | | | | Depression | | | | Hysteria | | | |
| | Abnormal | | Normal | | Abnormal | | Normal | | Abnormal | | Normal | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| CPS n=50 | 35 | 70 | 15 | 30 | 41 | 82 | 9 | 18 | 9 | 18 | 41 | 82 |
| GME n=50 | 23 | 26 | 27 | 54 | 29 | 58 | 21 | 42 | 7 | 14 | 43 | 86 |

Normal i.e. score < 8

Abnormal i.e. score ≥ 8

Table (24): Means and standard deviations of some selected personality variables on the MMPI in both groups.

| Group Variable | CPS n=50 | | GME n=50 | | t | P |
|-------------------|-----------|-------|-----------|-------|------|------|
| | \bar{X} | S.D. | \bar{X} | S.D. | | |
| Schizophrenia | 64.24 | 12.18 | 61.26 | 11.03 | 0.42 | n.s. |
| Paranoia | 63.08 | 12.46 | 59.98 | 12.11 | 1.14 | n.s. |
| Psychopathy | 50.86 | 11.66 | 49.62 | 11.87 | 0.52 | n.s. |

Table (25): The significant F-test scores between the four subgroups of both patient groups some selected personality variables of MMPI.

| Group | subgroup Variable | Bilateral foci | | Left focus | | Right focus | | Normal EEG | | F | P |
|-------|----------------------|-----------------------|------|----------------------|------|----------------------|------|-----------------------|------|------|--------|
| | | X ⁻ | S.D. | X ⁻ | S.D. | X ⁻ | S.D. | X ⁻ | S.D. | | |
| CPS | Schizophrenia | n = 14 65.14 11.31 | | n = 11 71.18 9.65 | | n = 9 56.44 10.38 | | n = 16 58.43 14.31 | | 2.13 | < 0.05 |
| | Psychopathy | 51.50 11.80 | | 56.18 9.18 | | 52.22 12.45 | | 45.07 11.40 | | 2.11 | < 0.05 |

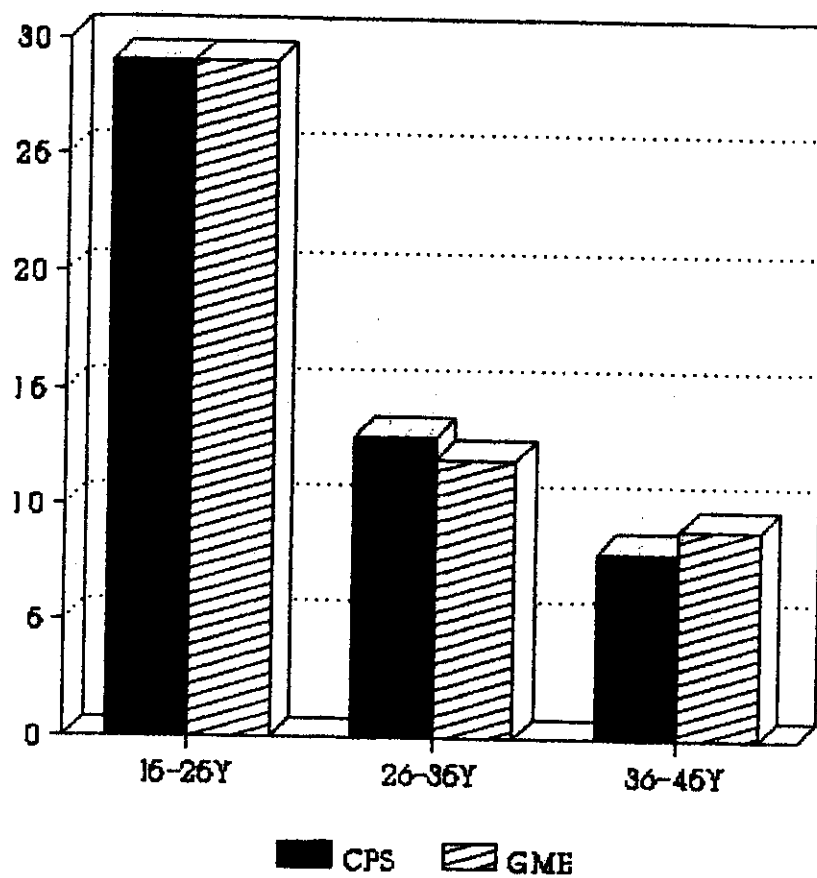
Table (26): Numbers and percentages of normal and abnormal selected personality variables of MMPI in the two patient groups.

| Group Variable | CPS n=50 | | GME n=50 | |
|-------------------|----------|----|----------|----|
| | No. | % | No. | % |
| Schizophrenia | | | | |
| Abnormal | 19 | 38 | 14 | 28 |
| Normal | 31 | 62 | 36 | 72 |
| Paranoia | | | | |
| Abnormal | 17 | 34 | 13 | 26 |
| Normal | 33 | 66 | 37 | 74 |
| Psychopathy | | | | |
| Abnormal | 5 | 10 | 3 | 6 |
| Normal | 45 | 90 | 47 | 94 |

Normal i.e. score < 70

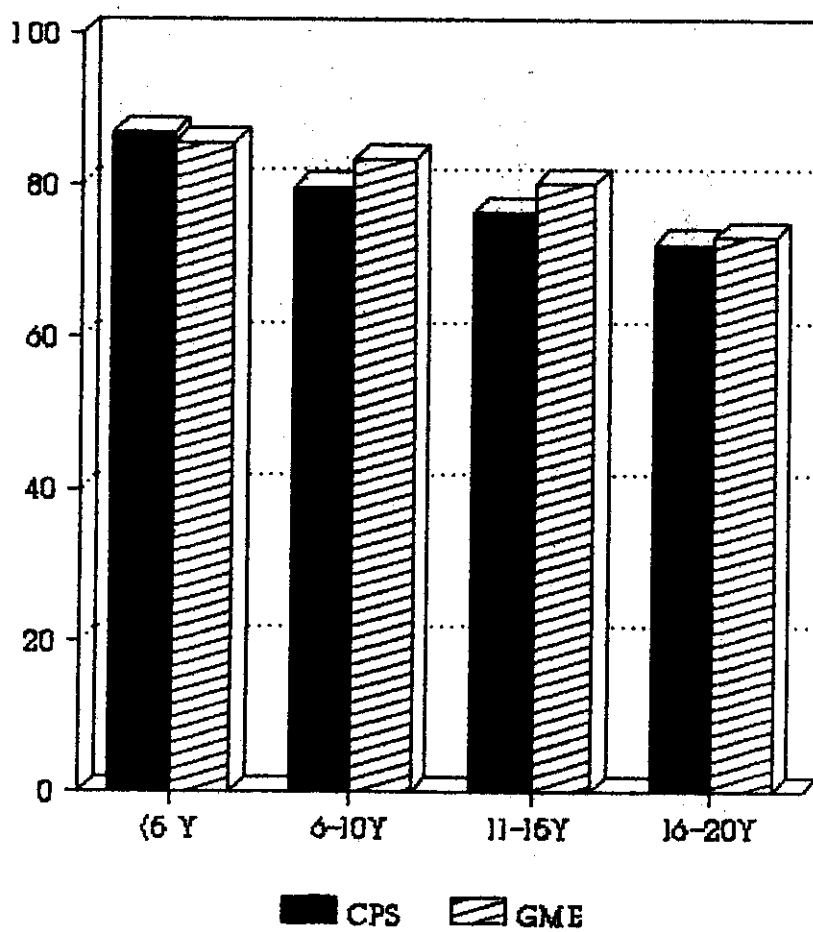
Abnormal i.e. ≥ 70

AGE DISTRIBUTION OF CPS AND GME GROUPS



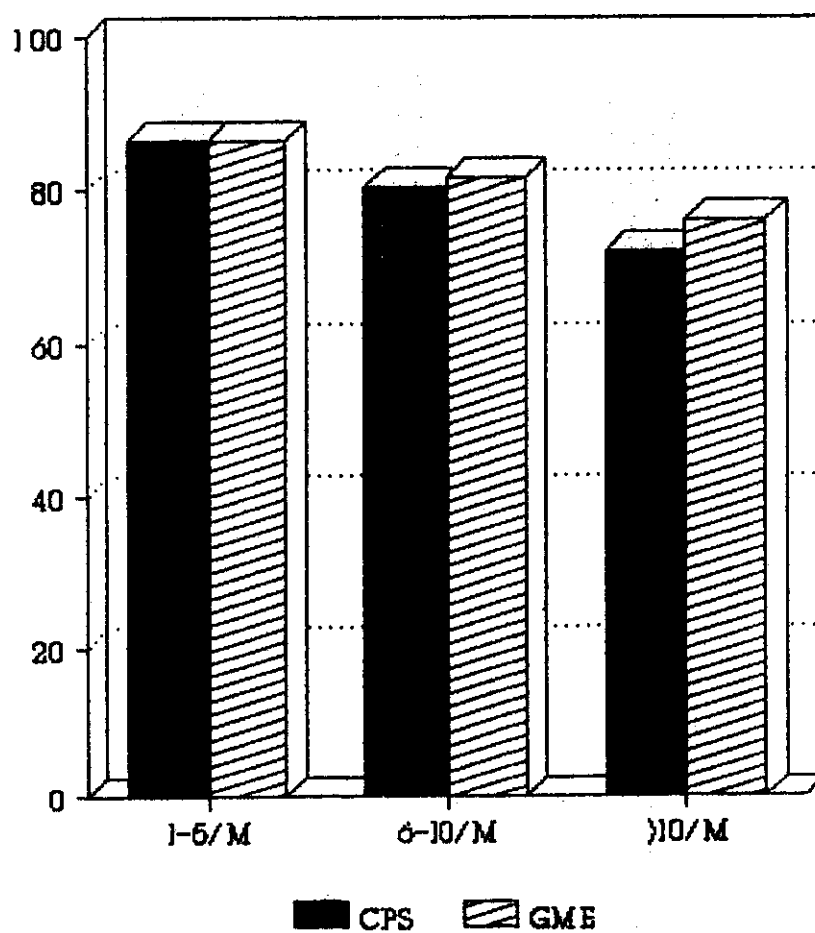
Graph No. (1)

**FULL IQ SCOR OF CPS & GME GROUPS
ACCORDING TO THE ILLNESS DURATION**



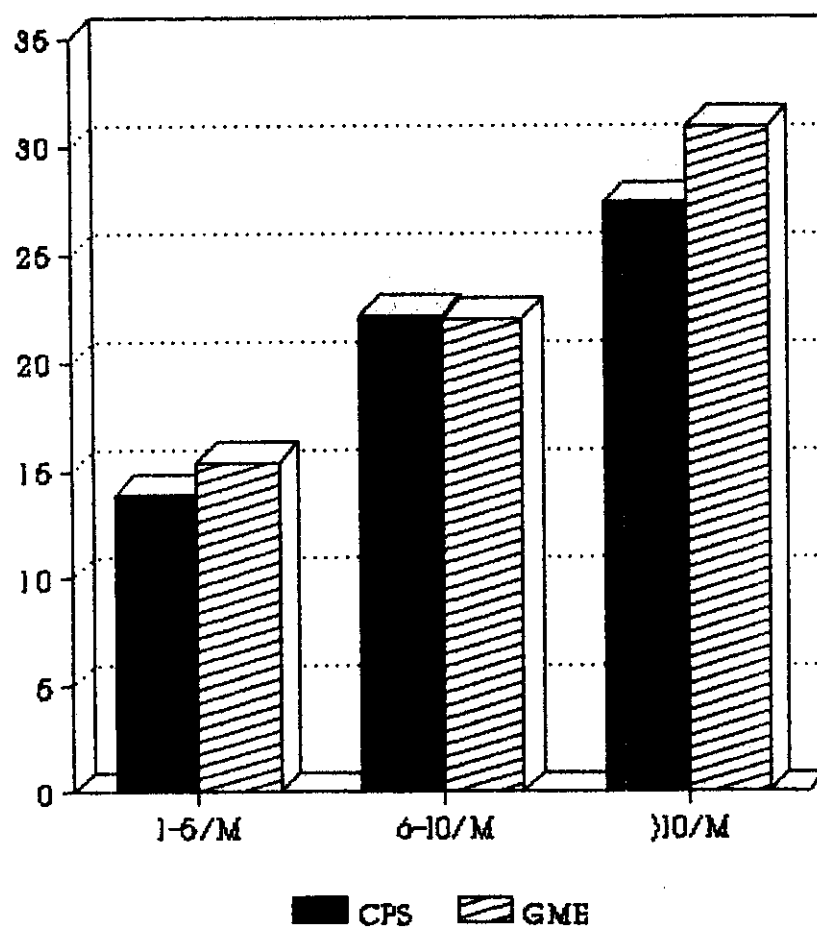
Graph No (2)

**FULL IQ OF CPS & GME GROUPS
ACCORDING TO THE FREQUENCY OF FITS**



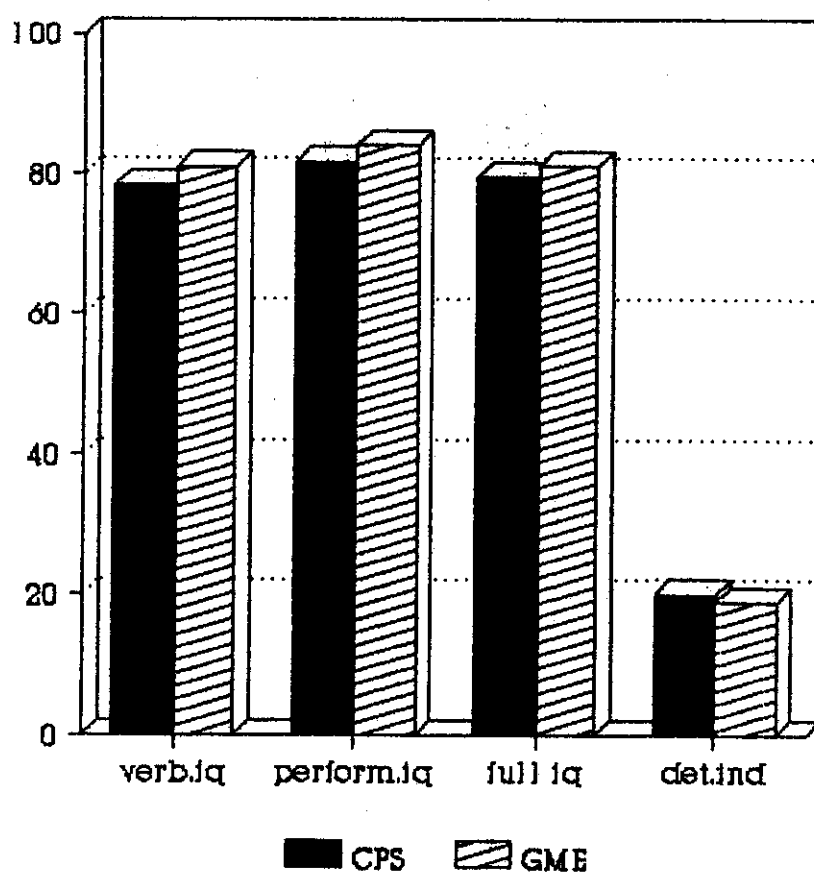
Graph No. (4)

**DETINDEX OF CPS & GME GROUPS
ACCORDING TO THE FREQUENCY OF FITS**



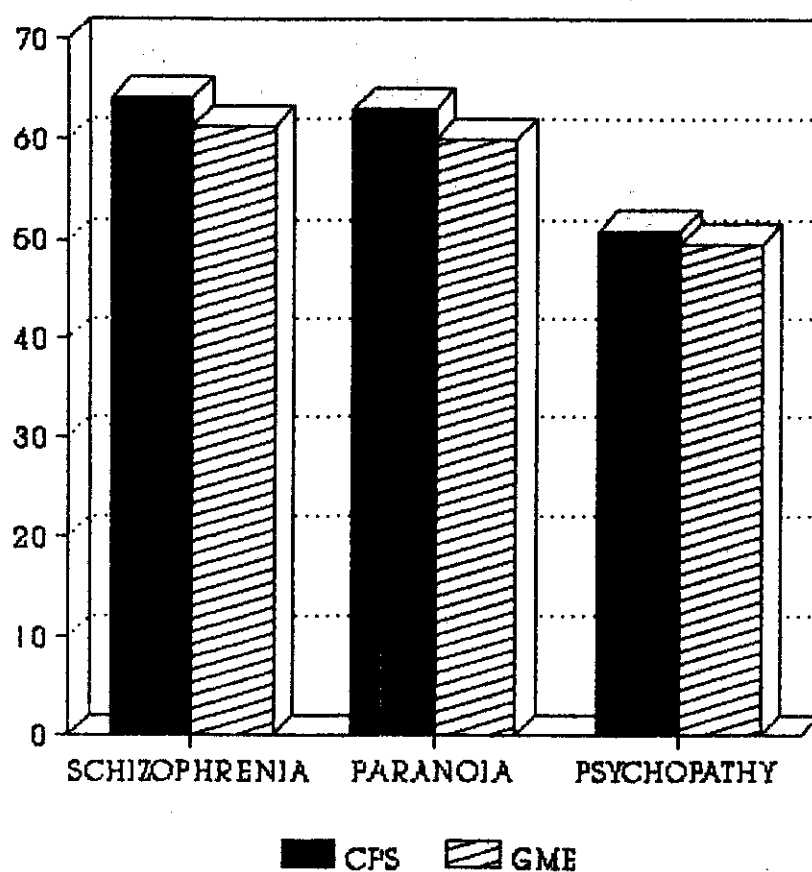
Graph No. (5)

WAIS END RESULTS OF CPS AND GME GROUPS



Graph No. (6)

SOME MMPI RESULTS OF CPS AND GME GROUPS



Graph No. (8)

Fig. (1): CT scan of a male patient, 31 years old, with
CPS, shows right temporoparietal encephalomalacia

Fig. (2): CT scan of a male patient, 41 years old, with
CPS, shows asymmetry of both lateral ventricles.

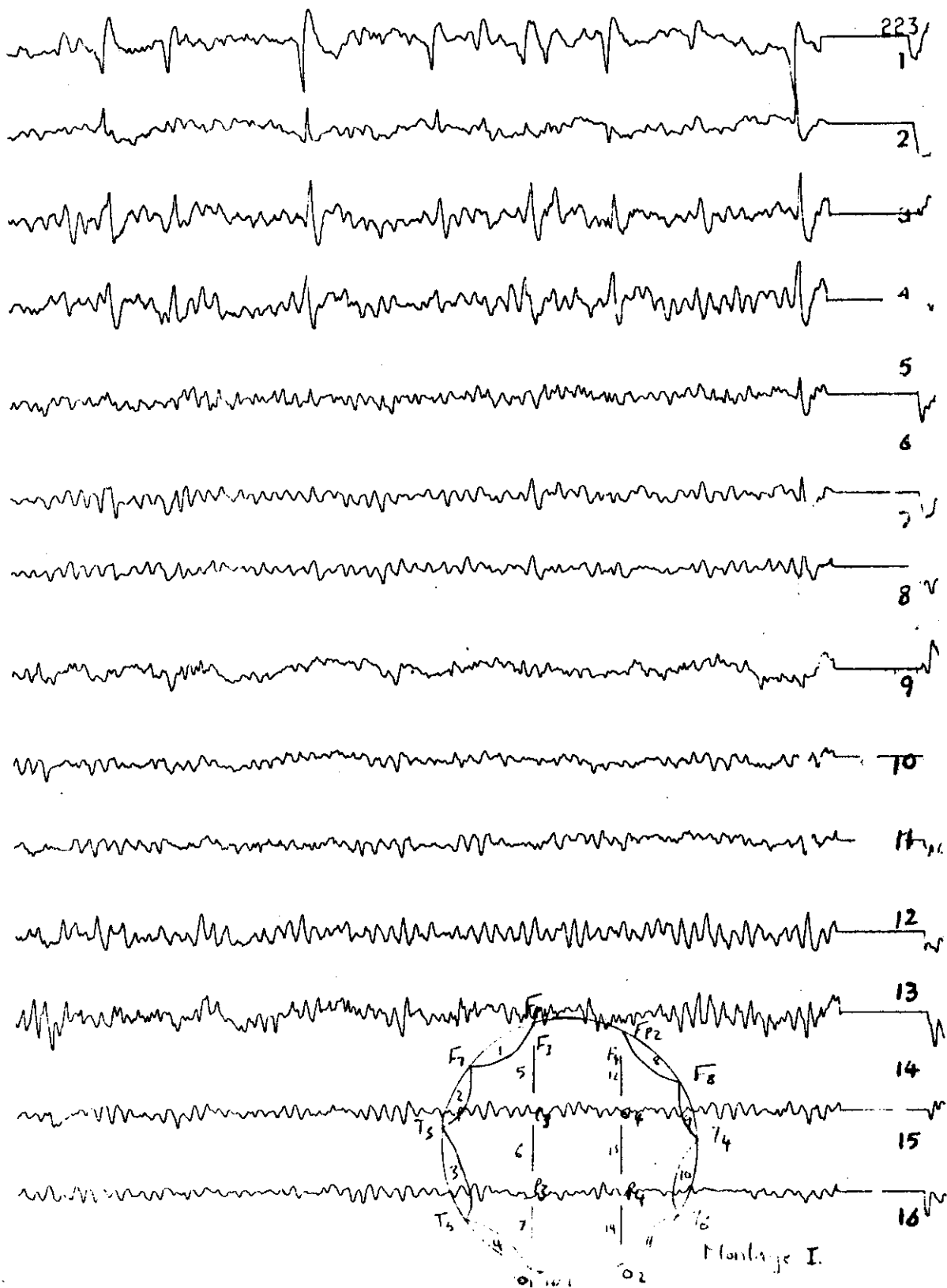


Fig. (3): An interictal EEG of a case with CPS shows left frontotemporal spikes and sharpes waves.

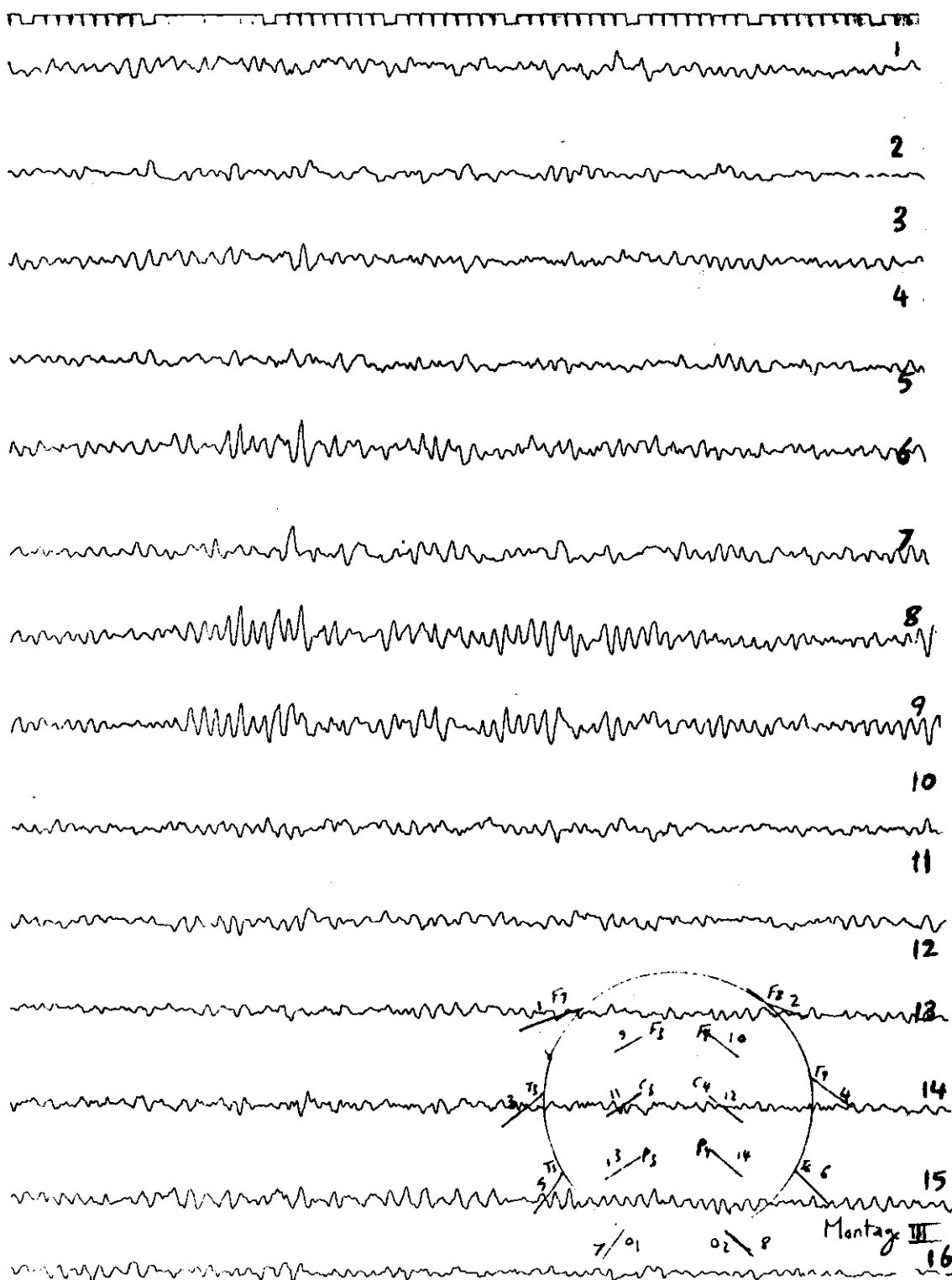


Fig. (4): An interictal EEG of a case with CPS shows left temporal sharp waves.

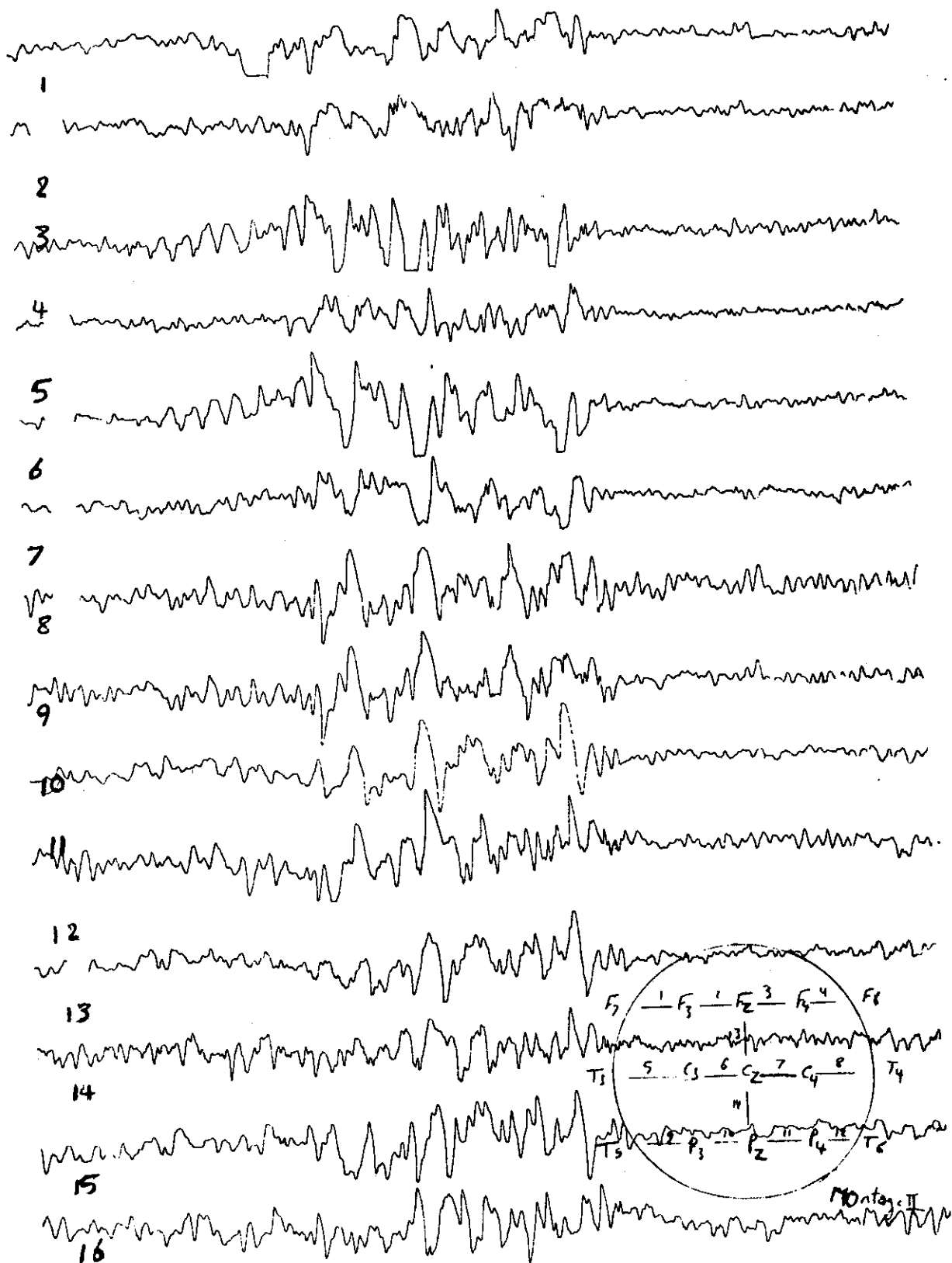


Fig. (5): An interictal EEG of a case with primary GME shows bilateral and synchronous paroxysmal discharge of spike and slow wave complexes.