

SUPPLEMENTARY MATERIALS

Figure 1. CT and CTP scans of patients

A. Case 1: CT scan (A–C) and CTP Scan (D–L), Scan at level of basal nuclei (A, D, G, J), Mid brain (B, E, H, K), Pons (C, F, I, L). Perfusion maps (G–M), cerebral blood flow(CBF) (D–F), Cerebral blood volume (CBV) (G–I), Mean blood transit time: (MTT) (J–L)



A. The CT scan, axial projection, level of the basal nuclei



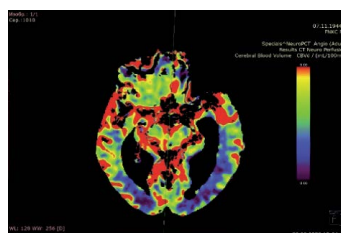
B. The CT scan, axial projection, level of the midbrain



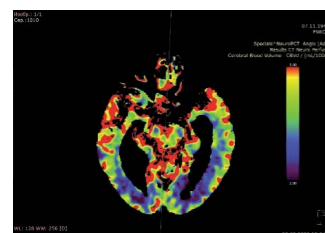
C. The CT scan, axial projection, level of the pons



D. CT Perfusion scan, CBF, level of basal nuclei



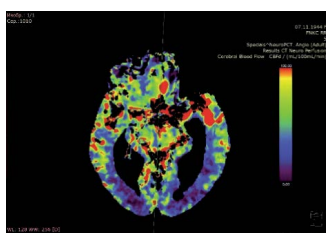
E. CT Perfusion scan, CBF, level of mid brain



F. CT Perfusion scan, CBF, level of pons



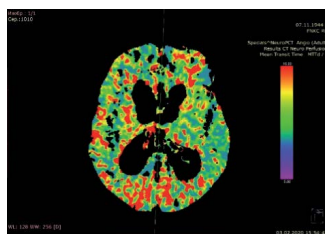
G. CT Perfusion Scan, CBV, level of basal nuclei



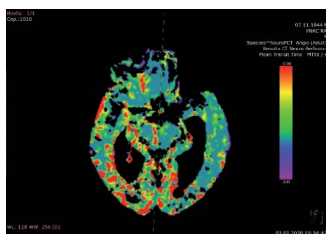
H. CT Perfusion Scan, CBV, level of mid brain



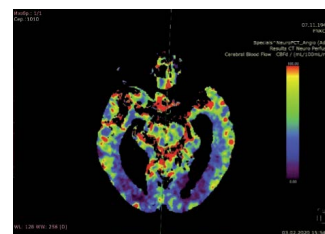
I. CT Perfusion Scan, CBV, level of pons



J. CT Perfusion Scan, MTT, level of basal nuclei



K. CT Perfusion Scan, MTT, level of mid brain



L. CT Perfusion Scan, MTT, level of pons

B. Case 2: CT scan (A–C) and CTP Scan (D–L), Scan at level of basal nuclei (A, D, G, J), Mid brain (B, E, H, K), Pons (C, F, I, L). Perfusion maps (G–M), cerebral blood flow (CBF) (D–F), Cerebral blood volume (CBV) (G–I), Mean blood transit time: (MTT) (J–L)



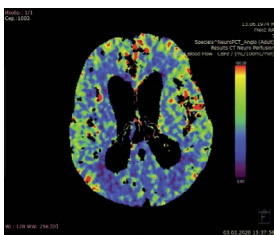
A. The CT scan, axial projection, level of the basal nuclei



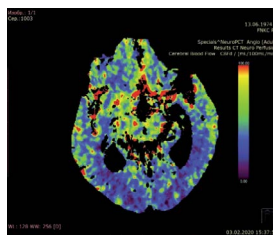
B. The CT scan, axial projection, level of the midbrain



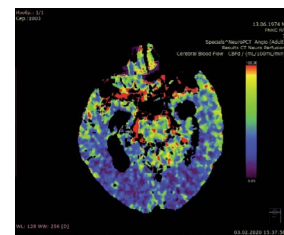
C. The CT scan, axial projection, level of the pons



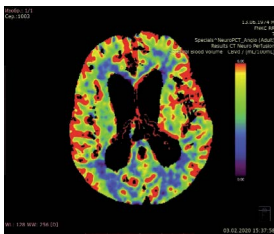
D. CT Perfusion scan, CBF, level of basal nuclei



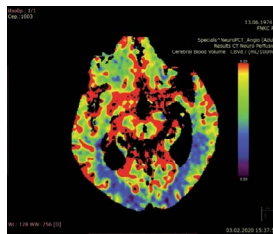
E. CT Perfusion scan, CBF, level of mid brain



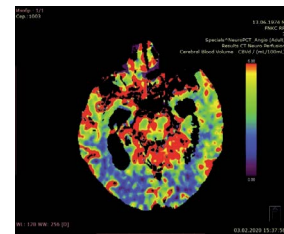
F. CT Perfusion scan, CBF, level of pons



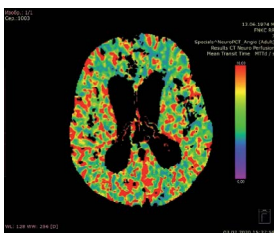
G. CT Perfusion Scan, CBV, level of basal nuclei



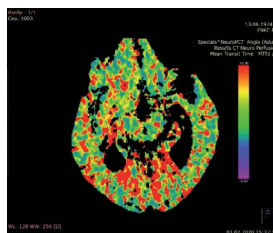
H. CT Perfusion Scan, CBV, level of mid brain



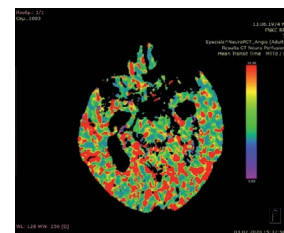
I. CT Perfusion Scan, CBV, level of pons



J. CT Perfusion Scan, MTT, level of basal nuclei



K. CT Perfusion Scan, MTT, level of mid brain



L. CT Perfusion Scan, MTT, level of pons

C. Case 3: CT scan (A–C) and CTP Scan (D–L), Scan at level of basal nuclei (A, D, G, J), Mid brain (B, E, H, K), Pons (C, F, I, L). Perfusion maps (G–M), cerebral blood flow (CBF) (D–F), Cerebral blood volume (CBV) (G–I), Mean blood transit time: (MTT) (J–L)



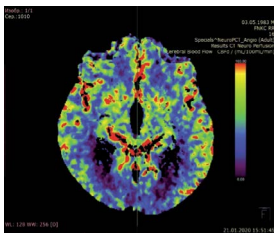
A. The CT scan, axial projection, level of the basal nuclei



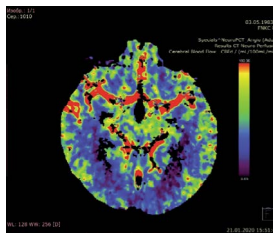
B. The CT scan, axial projection, level of the midbrain



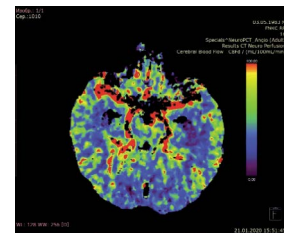
C. The CT scan, axial projection, level of the pons



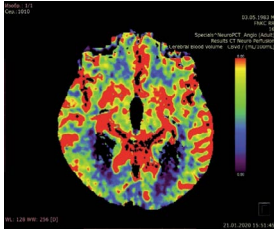
D. CT Perfusion scan, CBF, level of basal nuclei



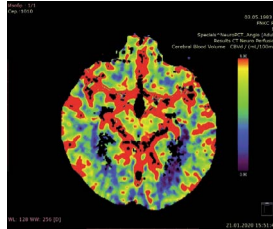
E. CT Perfusion scan, CBF, level of mid brain



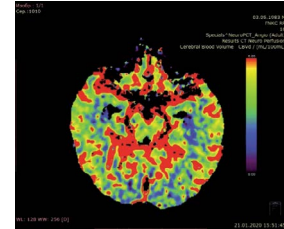
F. CT Perfusion scan, CBF, level of pons



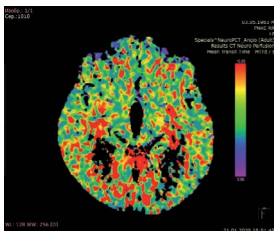
G. CT Perfusion Scan, CBV, level of basal nuclei



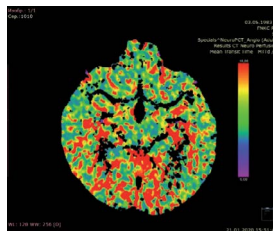
H. CT Perfusion Scan, CBV, level of mid brain



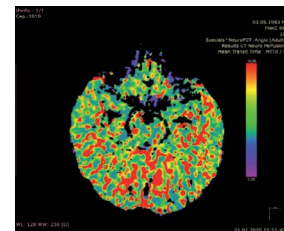
I. CT Perfusion Scan, CBV, level of pons



J. CT Perfusion Scan, MTT, level of basal nuclei

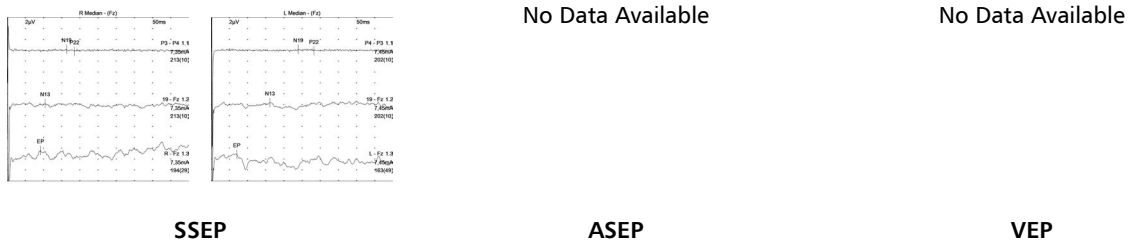


K. CT Perfusion Scan, MTT, level of mid brain

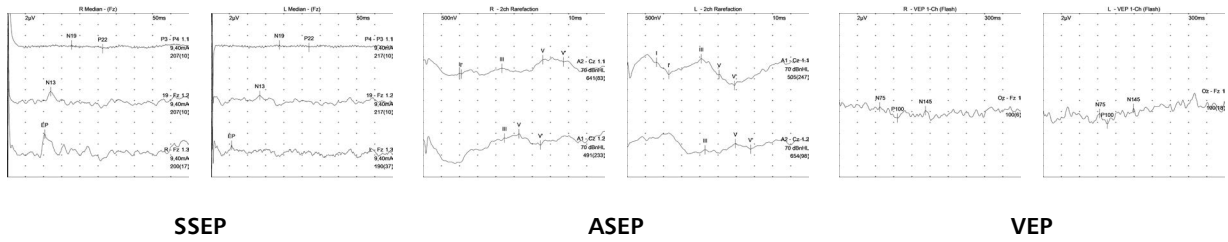


L. CT Perfusion Scan, MTT, level of pons

Figure 2. Evoked potentials
A. Case 1



B. Case 2



C. Case 3

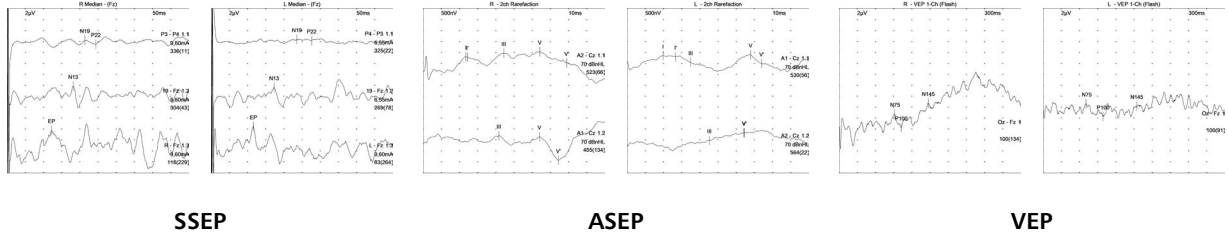
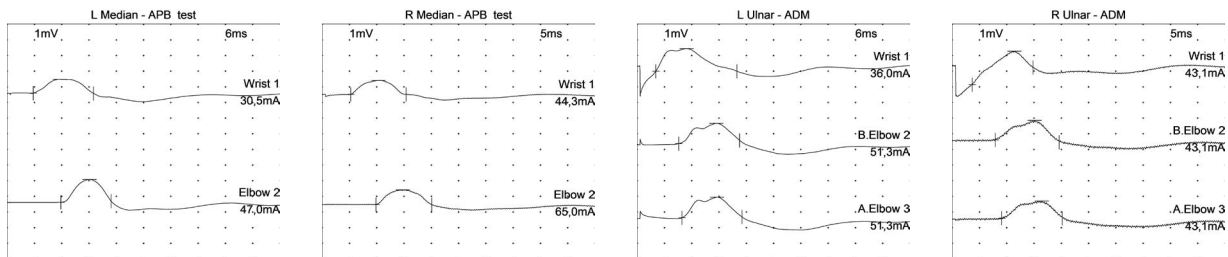


Figure 3. Electroneuromyography
A. Case 1



B. Case 3

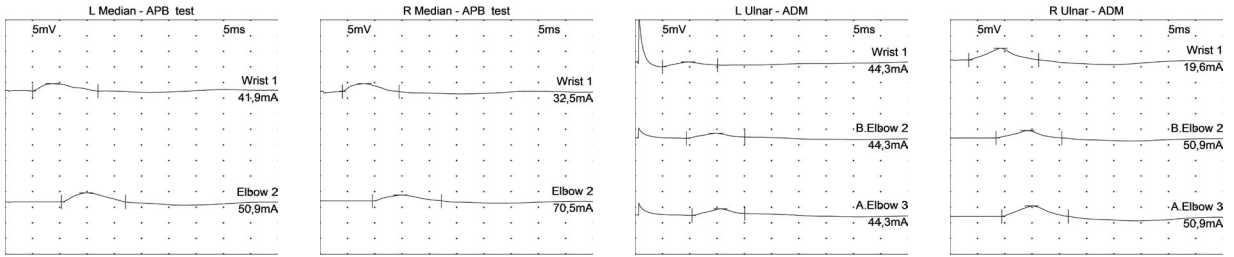


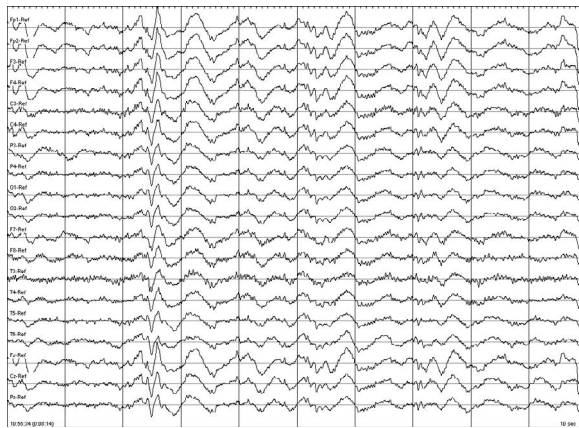
Figure 4. EEG studies



A

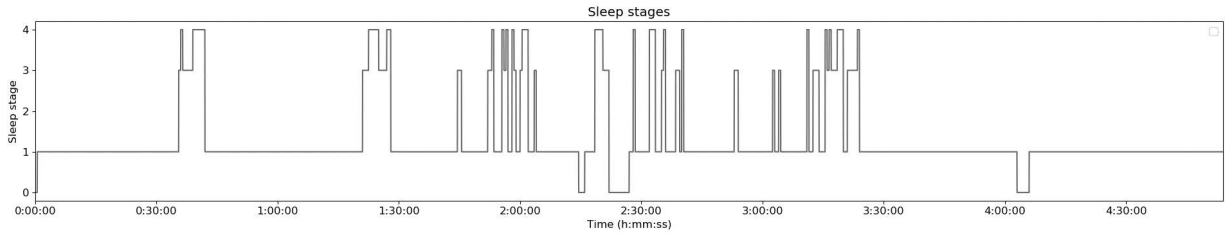


B

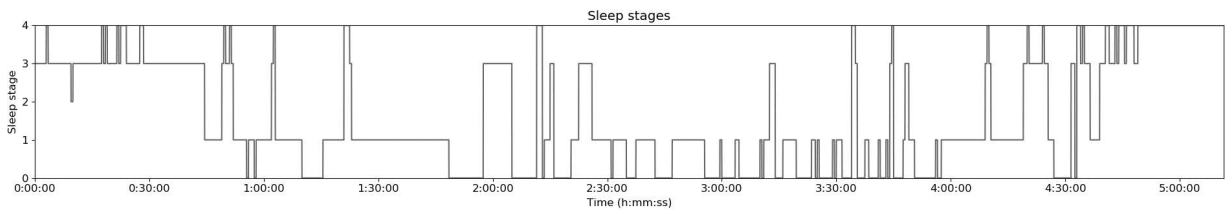


C

Figure 5. PSG studies
A. Case 1



B. Case 2



C. Case 3

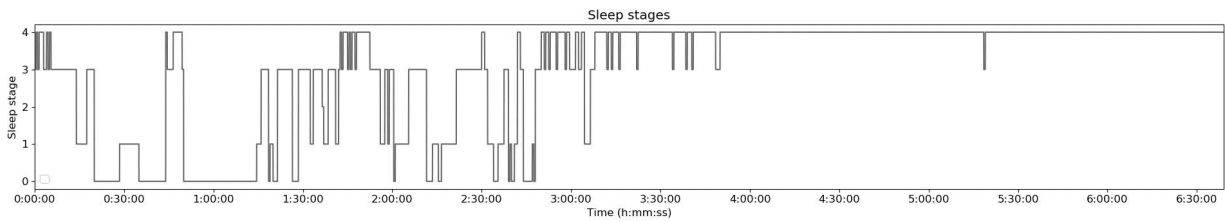
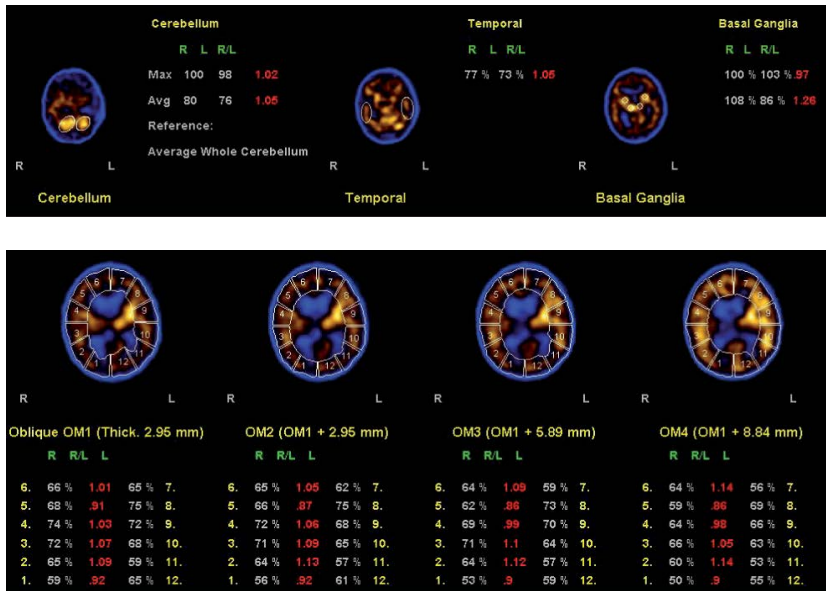
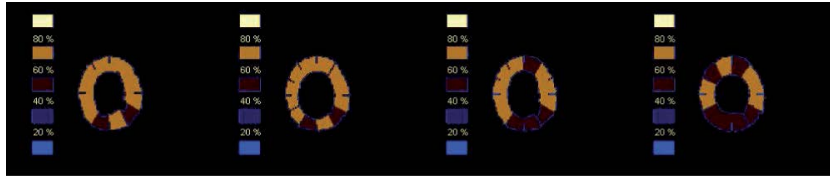
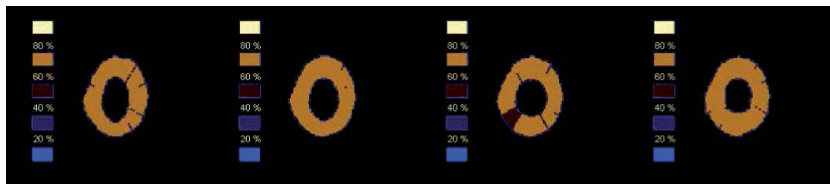
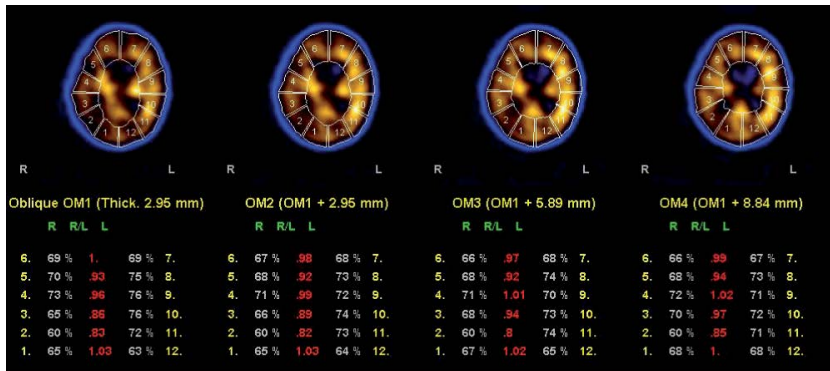
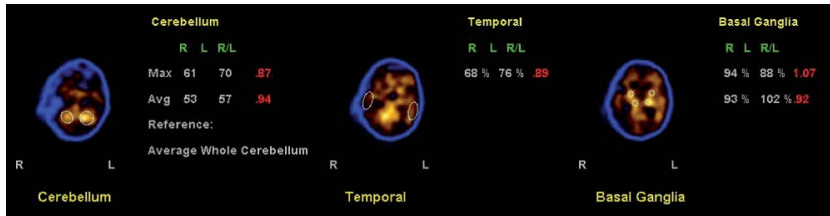


Figure 6. Results of the SPECT
A. Case 1





B. Case 2



C. Case 3



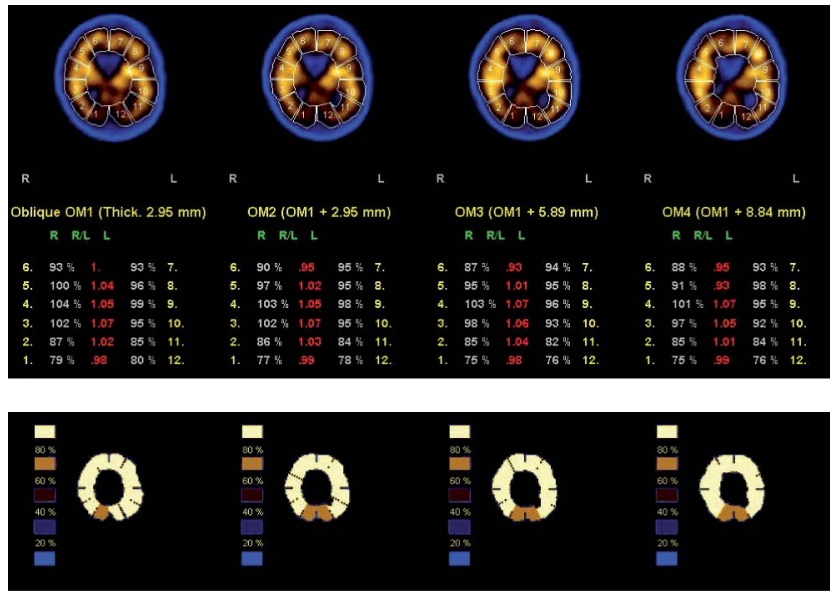
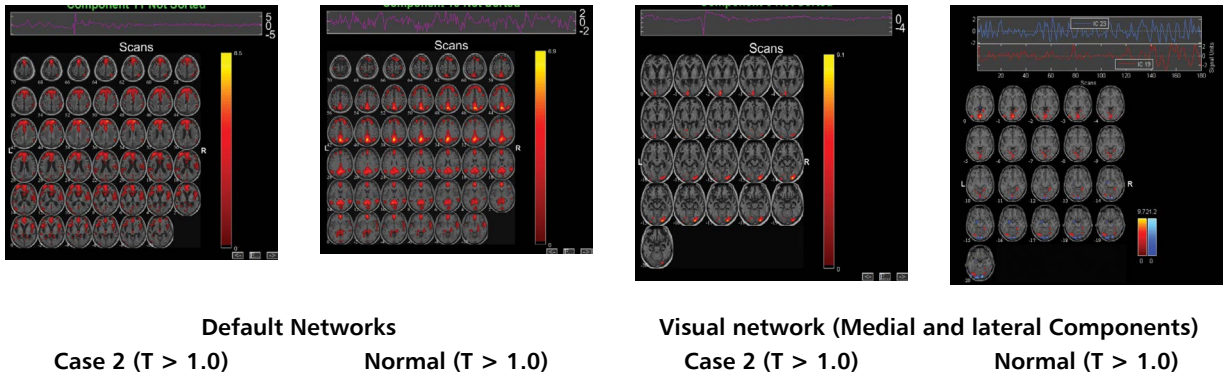


Figure 7. fMRI studies
A. Case 2



MATERIAŁY UZUPEŁNIAJĄCE

Rycina 1. Obraz CT i perfuzji CT u pacjentów

A. Przypadek 1: obraz CT (A–C) i perfuzji CT (D–L), obraz na poziomie jąder podstawy (A, D, G, J), śródmózgowia (B, E, H, K), most (C, F, I, L). Mapy perfuzji (G–M), przepływ krwi w mózgu (CBF) (D–F), objętość krwi w mózgu (CBV) (G–I), średni czas przepływu krwi: (MTT) (J–L)



A. Badanie CT, projekcja osiowa, na poziomie jąder podstawy



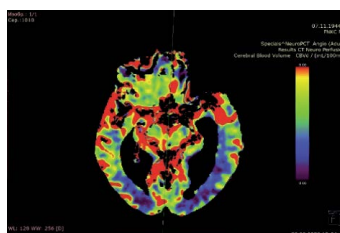
B. Badanie CT, projekcja osiowa, na poziomie śródmózgowia



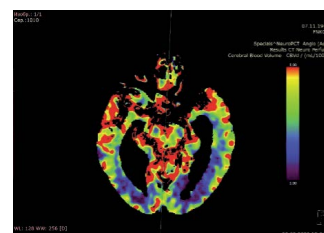
C. Badanie CT, projekcja osiowa, na poziomie mo



D. Perfuzyjna CT, CBF, poziom jąder podstawy



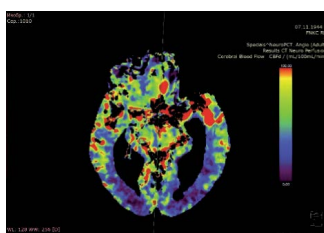
E. Perfuzyjna CT, CBF, poziom śródmózgowia



F. Perfuzyjna CT, CBF, poziom mostu



G. Perfuzyjna CT, CBV, poziom jąder podstawy



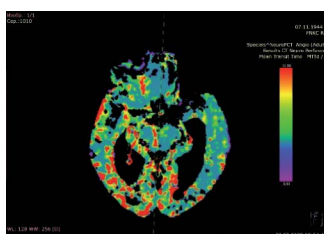
H. Perfuzja CT, CBV, poziom śródmózgowia



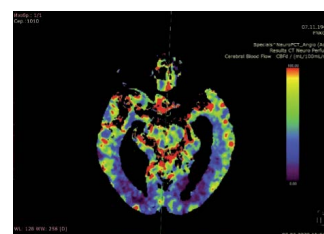
I. Perfuzyjna CT, CBV, poziom mostu



J. Perfuzyjna CT, MTT, poziom jąder podstawy



K. Perfuzyjna CT, MTT, poziom śródmózgowia



L. Perfuzyjna CT, MTT, poziom mostu

B. Przypadek 2: obraz CT (A–C) i perfuzyjnej CT (D–L), obraz na poziomie jąder podstawy (A, D, G, J), śródmózgowia (B, E, H, K), most (C, F, I, L). Mapy perfuzyjne (G–M), przepływ krwi w mózgu (CBF) (D–F), objętość krwi w mózgu (CBV) (G–I), średni czas przepływu krwi: (MTT) (J–L)



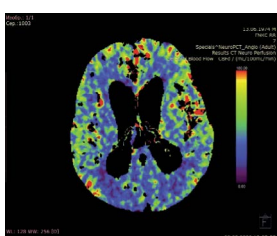
A. Badanie CT, projekcja osiowa, na poziomie jąder podstawy



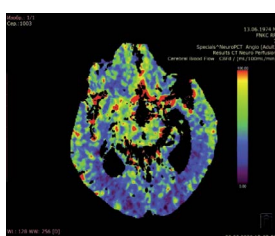
B. Badanie CT, projekcja osiowa, na poziomie śródmózgowia



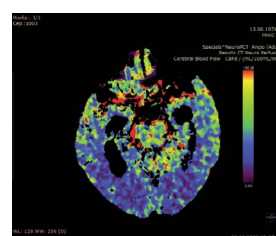
C. Badanie CT, projekcja osiowa, na poziomie mostu



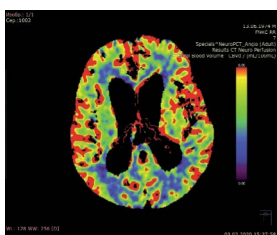
D. Perfuzyjna CT, CBF, poziom jąder podstawy



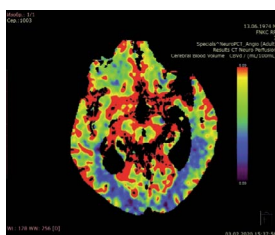
E. Perfuzyjna CT, CBF, poziom śródmózgowia



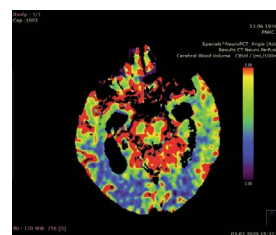
F. Perfuzyjna CT, CBF, poziom mostu



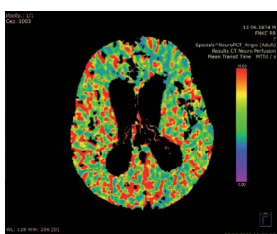
G. Perfuzyjna CT, CBV, poziom jąder podstawy



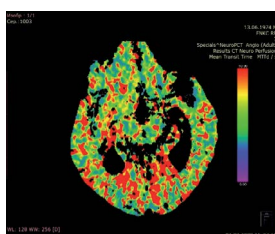
H. Perfuzyjna CT, CBV, poziom śródmózgowia



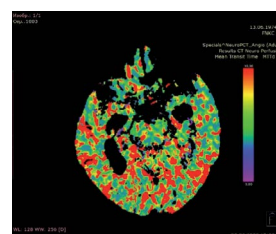
I. Perfuzyjna CT, CBV, poziom mostu



J. Perfuzyjna CT, MTT, poziom jąder podstawy



K. Perfuzyjna CT, MTT, poziom śródmózgowia



L. Perfuzyjna CT, MTT, poziom mostu

C. Przypadek 3: obraz CT (A–C) i perfuzyjnej CT (D–L), obraz na poziomie jąder podstawy (A, D, G, J), śródmózgowia (B, E, H, K), Most (C, F, I, L). Mapy perfuzyjne (G–M), przepływ krwi w mózgu (CBF) (D–F), objętość krwi w mózgu (CBV) (G–I), średni czas przepływu krwi: (MTT) (J–L)



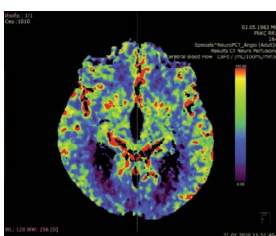
A. Badanie CT, projekcja osiowa, na poziomie jąder podstawy



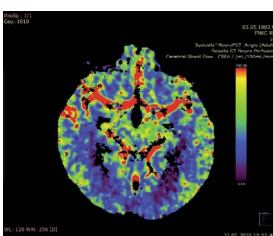
B. Badanie CT, projekcja osiowa, na poziomie śródmózgowia



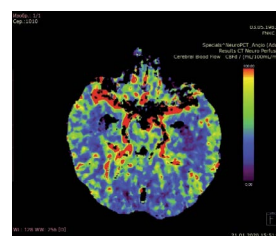
C. Badanie CT, projekcja osiowa, na poziomie mostu



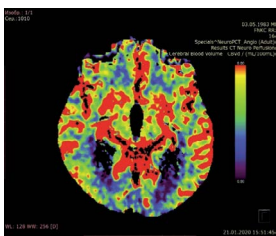
D. Perfuzyjna CT, CBF, poziom jąder podstawy



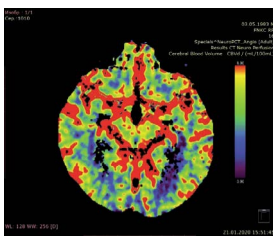
E. Perfuzyjna CT, CBF, poziom śródmózgowia



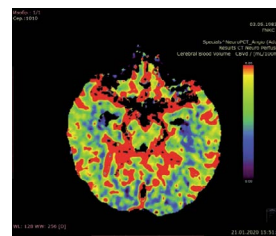
F. Perfuzyjna CT, CBF, poziom mostu



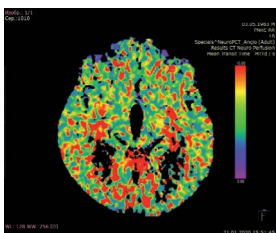
G. Perfuzyjna CT, CBV, poziom jąder podstawy



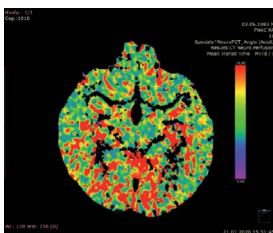
H. Perfuzja CT, CBV, poziom śródmózgowia



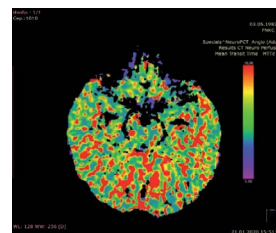
I. Perfuzyjna CT, CBV, poziom mostu



J. Perfuzyjna CT, MTT, poziom jąder podstawy

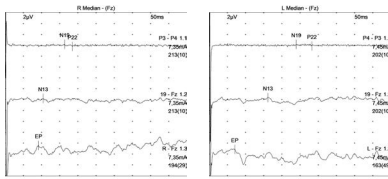


K. Perfuzyjna CT, MTT, poziom śródmózgowia



L. Perfuzyjna CT, MTT, poziom mostu

**Rycina 2. Potencjały wywołane
A. Przypadek 1**



SSEP

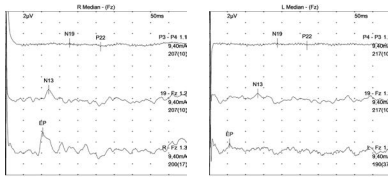
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ASEP

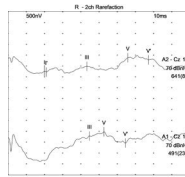
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VEP

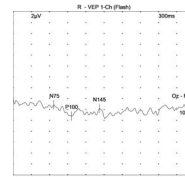
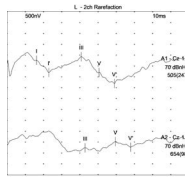
B. Przypadek 2



SSEP

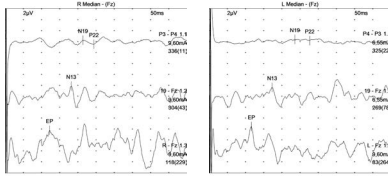


ASEP

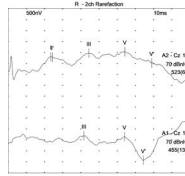


VEP

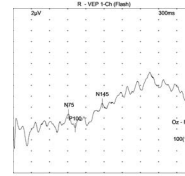
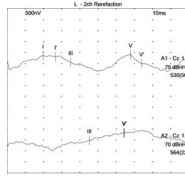
C. Przypadek 3



SSEP

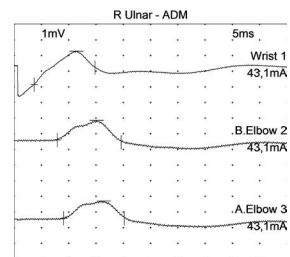
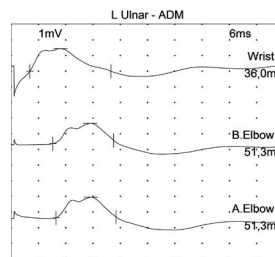
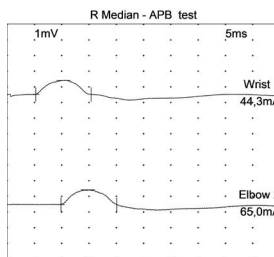
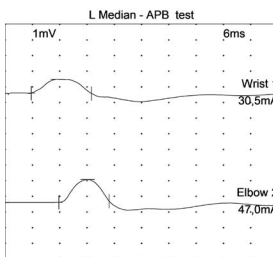


ASEP

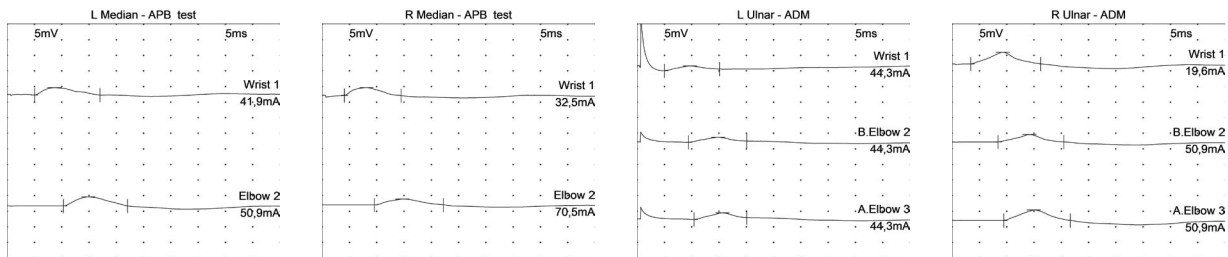


VEP

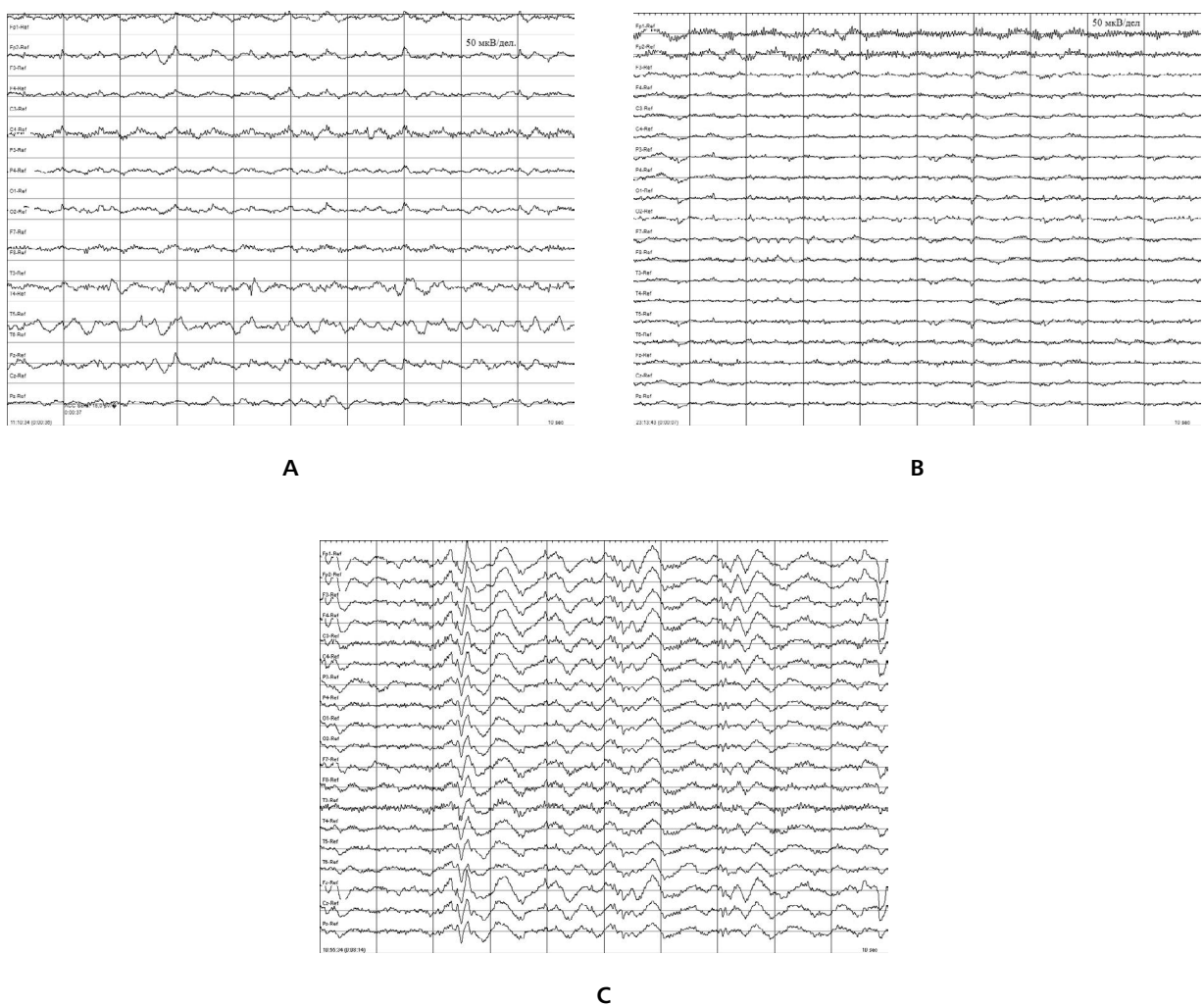
**Rycina 3. Elektroneuromiografia
A. Przypadek 1**



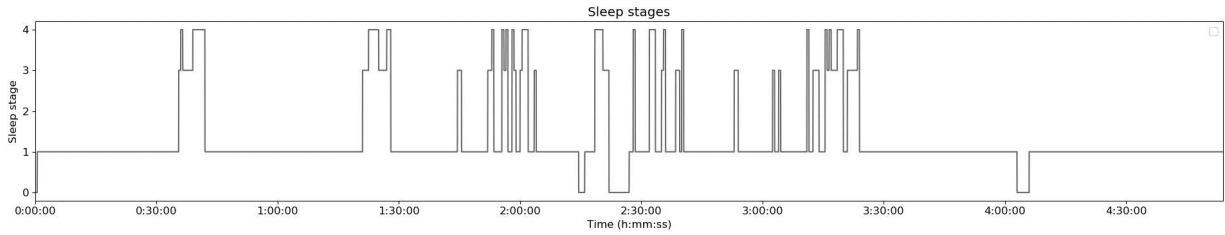
B. Przypadek 3



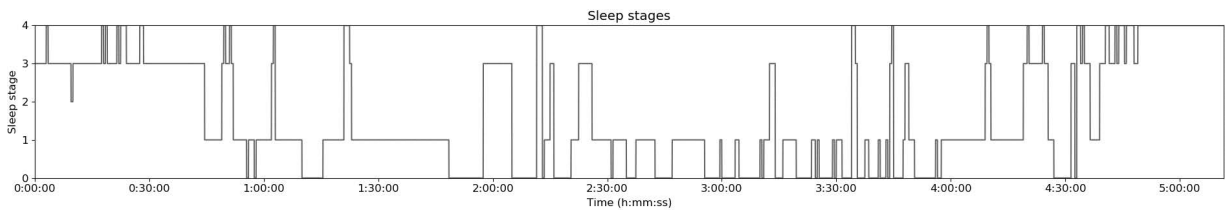
Rycina 4. Badania EEG



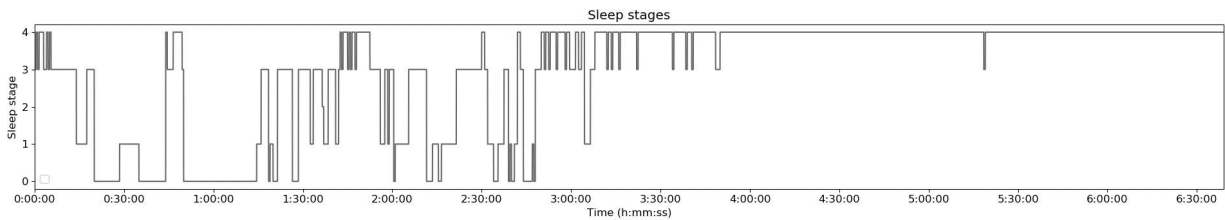
Rycina 5. Badania PSG
A. Przypadek 1



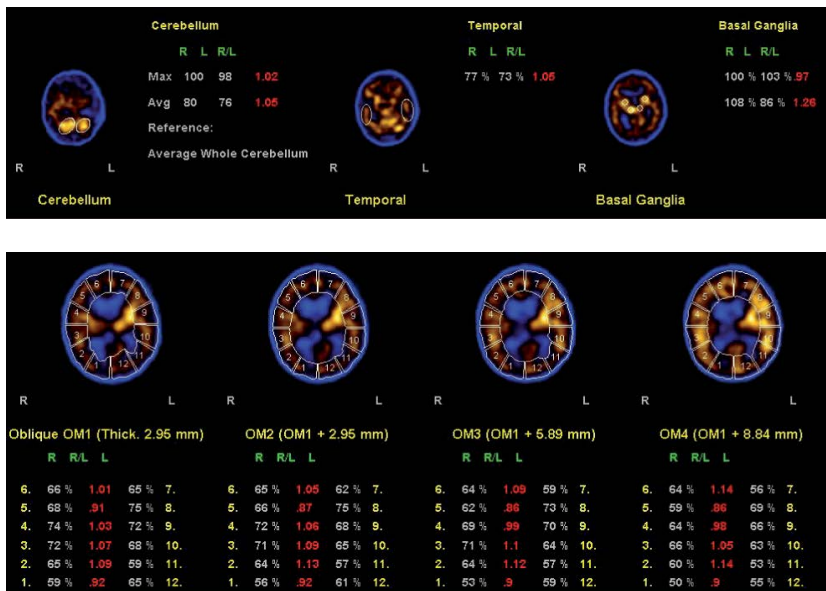
B. Przypadek 2

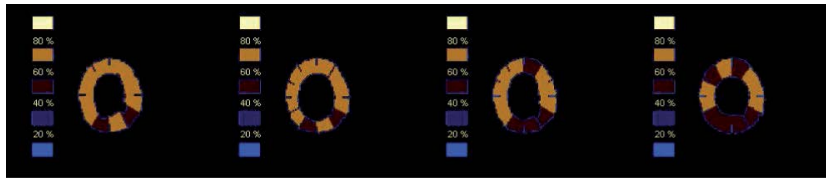


C. Przypadek 3

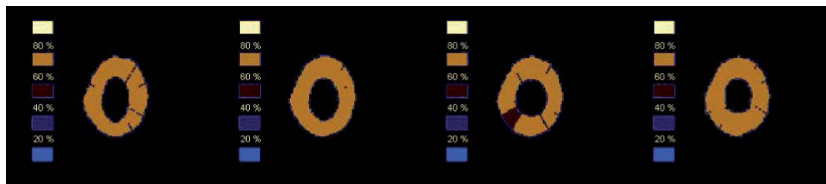
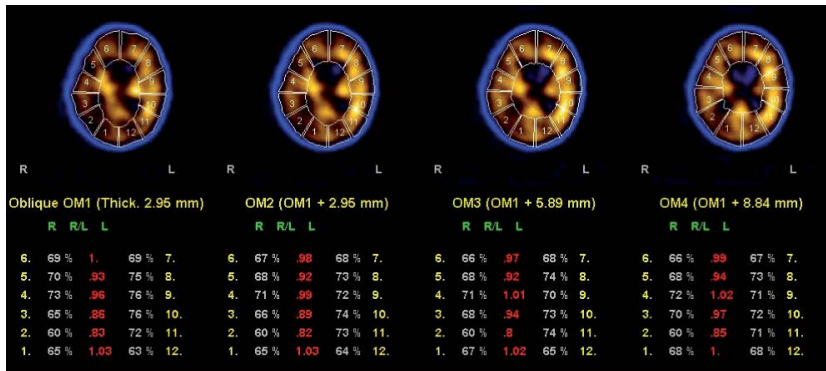
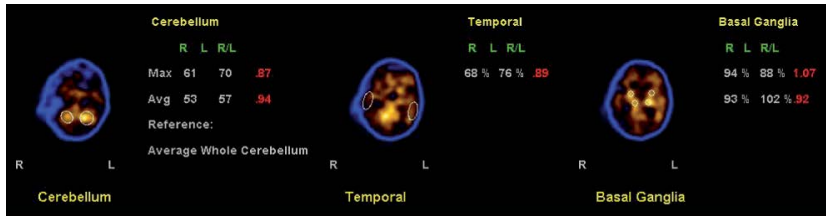


Rycina 6. Wyniki badania SPECT
A. Przypadek 1



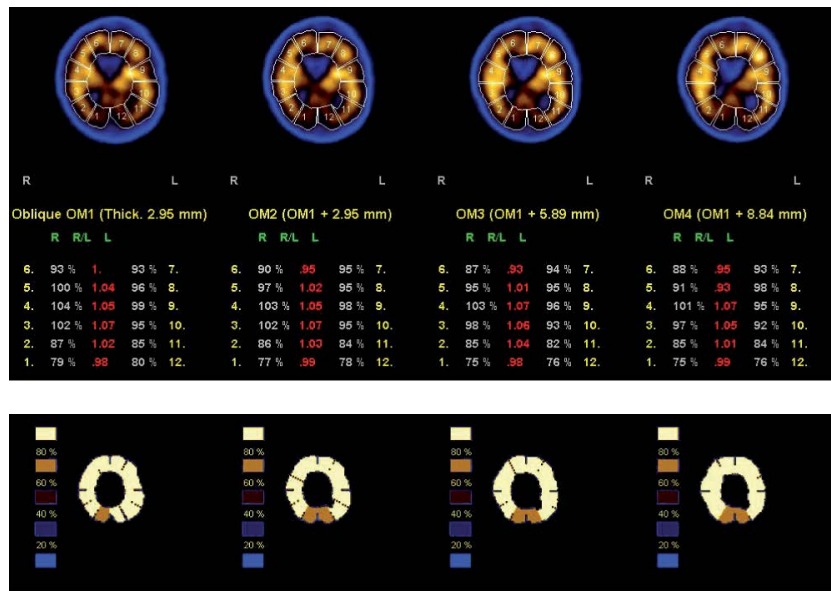


B. Przypadek 2

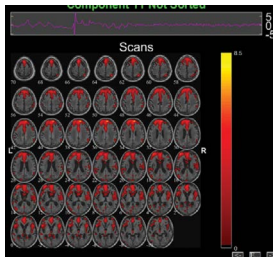


C. Przypadek 3

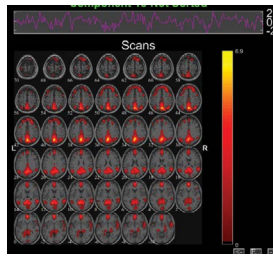




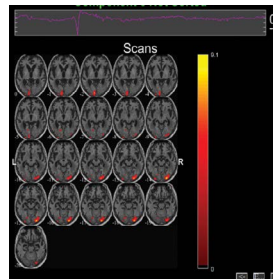
Rycina 7. Badania fMRI
A. Przypadek 2



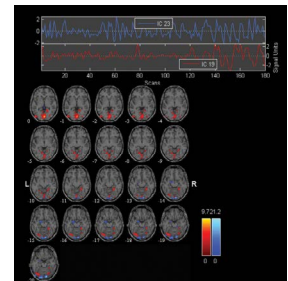
Przypadek 2 (T > 1,0)



Normalny (T > 1,0)



Przypadek 2 (T > 1,0)



Normalny (T > 1,0)