Poster presentations – abstracts

of severe CAA complications in the course of dementia with Lewy bodies (DLB). Finall diagnosis of DLB was made postmortem on the basis of typical histological changes in association with a progressive intellectual decline in a clinical manifestation of disease. Focal subarachnoid hemorrhage and many hemorrhagic as well as ischemic cerebral lesions were seen on brain autopsy. Microscopic findings, demonstrated immunohistochemically, were typical of DLB with concomitant severe CAA. Severe CAA was a cause of many focal subarachnoid and intracerebral hemorrhagies as well as brain ischemic necroses, which led to lethal outcome.

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Sewing needle as a cause of haemopericardium: unusual complication after stroke treatment with i.v. rtPa

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Case report

A 68-year-old man was admitted to hospital 2 hours after the stroke onset and received i.v. rtPa treatment. About 2,5 hours after termination of rtPa infusion, suddenly symptoms of cardiogenic shock appeared. ECG and cardiac enzymes levels showed no sign of acute myocardial infarction. Dopamine infusion and fluids were administered and the patient's condition got gradually better and remained stable. Transthoracic echocardiography showed pericardial and left pleural effusion, concentric left ventricular hypertrophy (2,0 cm) with preserved systolic function and catheter-like, metallic object in the left ventricle.

CT chest scan confirmed the presence of linear foreign body of 66 mm length, localized in septum and protruding to left ventricle of the heart.. No marks of stabbing or other chest injuries were detected, the patient denied swallowing a needle. He was operated on in Cardiosurgical Department with the use of ECC (extracorporeal circulation) and a 70 mm sewing needle was successfully removed from the left ventricle. The surgeons found the ulceration of back wall of pericardium, as an evidence of passing the needle from oesophagus.

Discussion

Just few cases of sewing needle in the heart have been reported in the medical literature. Haemopericardium is a very rare complication of thrombolytic treatment of stroke. We have found 4 cases of cardiac tamponade after rt-Pa treatment of stroke, but probably caused by subacute undetected myocardial infarction. To our best knowledge, the presented case is the first one with such

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Objective measurement of post-stroke motor deficit. It's goals and perspectives. Pilot study

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Clinical evaluation of stroke patients is very seldom to comprise all problems because of vast range and variability of motor disorders after cerebral vascular incident (Cva). Measurement of motor abilities progress which is based on observation often simplifies distinct changes and it doesn't distinguish subtle differences. In this circumstances verifying of treatment methods is limited only for obvious and typical pathomechanisms.

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The goal of this study was to apply objective laboratory diagnostics of motor functions to discover possible occurance of changes after physiotherapy treatment compared to the results of clinical evaluation.

Method: Five patients (first stroke, more than six months after the onset – from 7 months to 3 years) were evaluated before and after physiotherapy. Clinical evaluation consisted of scandinavian stroke scale (neurological deficit), rivermead motor assessment (motor deficit), Bartel Index (functional status) and Rankin Scale. Additional measurement consisted of evaluation of gait. Data were collected using motion system VICON460 (Helen Hayes model was used) and surface EMG with Motion Lab System. Polygon software was used to elaborate data results.

Results: All patients reported improvement of their motor status after physiotherapy in the interview but there were no changes observed in the clinical scale's results to confirm that. Distinct improvement was stated in additional assessment results in all parameters temporo-spatial (step length, increase of cadence, shortening of double support, symetricity), kinematic (in all joints) and EMG (gluteus maximus, hamstrings, rectus femoris, gastrocnemius, tibialis anterior). Many changes were related to the sound leg but it was not parallel with clinical observations.

Conclusions: Additional and objective assessment creates great possibilities in the field of individual defining of pathobiomechanics and registration of recovery. Results which are acquired this way are supposed to be in the near future a reliable source for verification of treatment methods.

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Weekend versus Weekday Admission and Prognosis from Stroke

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Aim: to explore differences in baseline characteristics, acute care and outcomes of patients admitted on weekends and weekdays in stroke centers participating in POLKARD (National Cardiovascular Disease Prevention and Treatment Program for 2003-2005) STROKE Registry.

Methods: Who Step Stroke questionnaire was used to collect data between June the 1st 2004 and May 31st 2005. To ensure the quality only centers reporting at least 100 patients were analyzed. Clinical characteristic, in-hospital care and early outcomes (death rate and poor outcome defined as modified Ranking scale 3 and above) were compared between 2 groups: patients admitted on weekdays and weekends (i.e. Friday afternoon after 3 p.m., Saturday and Sunday).

Results: 24 498 (51.4% women) stroke patients admitted to 73 stroke centers were registered. Weekends patients were slightly older then weekdays patients (70.5 and 69,6 years, respectively). There were no differences in pre-stroke Rankin score and distribution of risk factors with the exception for alcohol abuse (6,2 and 5,3%, respectively). Patients admitted on weekends more often had consciousness impaired: 17.2% vs 16.0% were drowsy, 7.1% vs 5.9% were in stupor and 5.3% vs 4.7% were in coma, respectively. There were more haemorrhagic (11,4% vs 9,5%) and less ischemic (82,8% vs 84,3%) strokes during weekends. Trombolytic treatment was applied in 0.6% patients both on weekdays and weekends. Patients admitted on weekends were less often treated with ASA (67,7%vs 69,4%), but more often with antihypertensives (73,0% vs 71,6%) and antibiotics (33,3% vs 29,5%). There were no differences in use of heparines, statins, antidiabetics and rehabilitation. More patients admitted on weekends died during hospitalization or had poor outcome at discharge then weekdays patients (14,1% and 55,3% vs 15,9% and 59,8%, respectively). Cox proportional-hazard models used to adjust for case-mix showed no difference in comparing the risk of death associated with weekend versus weekday admissions.

Conclusions: Admissions on weekends are associated with higher mortality and poor outcome rates and can be partially explained by differences in initial characteristics of admitted patients. Stroke service should be organize to ensure the appropriate care for patients with stroke.

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