Back Pain Syndromes: Causes, Symptoms, Importance of Differential Diagnosis and Advises of Therapy

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limitation of adduction of the f this joint 5 to 10 degree is of Contractures and Mau from Tübingen,





Figure $\mathbf{\hat{e}}$ (a,b) Patient 60 years old. Example of scoliosis "I" in 3rd epg Spine without curves but totally sti . Oblique position of os sacrum Deformity not treated in childhood. Now back pain in every day situation.

Experimental

Additional causes in development of scoliosis in children and back pain syndromes in adults

In many children or adults with scoliosis we can see "neurological symptoms" and there are typical for the Minimal Brain Dysfunctions (MBD). ese neurological disorders are mostly caused by complicated or pathological pregnancies and problems in delivery. During examination of children and adults su ering from scoliosis and back pain such anamnesis was constantly presented. e neurological disorders are

Anterior tilt of pelvis and hiperlordosis of lumbar spine (Figures 5a and 5b), because of fexion contracture of hips fexors. In such situation the stability between pelvis and spine is diminished-it enables an easy development of scoliosis and next back pain,

Extension contracture of the trunk's muscles as typical symptom of MBD-here we should remember that in "S" scoliosis in 1st epg group/ type and in "I" scoliosis in 3rd epg group/type the spine is sti in "extension position" and this symptom is typical for all scoliosis patients (Figures 6a and 6b). Gi ness of spine is one of many causes of back pains

Laxity of joints-facilitates the development of scoliosis and is an important cause of back pain.

New classif cation of so-called idiopathic scoliosis

e type of spine deformity is connected with "model of hips movement" and etiological factors "gait" and "standing 'at ease' on the right leg."

Scoliosis 3D-"S" 1st etiopathological group (epg)-double curve Gi spine Rib hump on the right side of the thorax. Connection with "gait" and permanent "standing 'at ease' on the right leg". Mostly-rapid progression. is type of scoliosis "as example of the spine deformity" is described in orthopedic articles and in Internet.

Scoliosis 1D or 2D-"C" 2nd/A epg-one curve-lumbar le convex. Connected with permanent standing at ease on the right leg. In many orthopedic articles this type of scoliosis is mostly described "as paresis/ paretical scoliosis."

Scoliosis 2D or 3D "S" 2nd/B epg-two curves. Connection with permanent standing 'at ease' on the right leg and additionally with laxity of joints or/and previous, harmful exercises. In older people the standing on the right leg is the cause of degenerative scoliosis and heavy back pain syndrome (Figure 4).

Scoliosis 2D or 3D-"I" 3rd epg Deformity has the form of a sti spine. No curves or small ones e only cause is gait. Clinical symptoms are "sti ness of the spine in children" and "pain synchromes in adults (Figure 6a and 6b). Till 2004 this type of spine deformity was no described as "scoliosis."

Problems of back pain in context of scoliosis on material from 1984

In our orthopedic experience -the problem of back pain is connected mostly with abnormalities of spine anatomy-therefore we describe in article two causes-hiperlordosis of lumbar spine and scoliosis "C" and "S" in 2nd etiopathological group and type (EPG) in Lublin classification.



Figure 7: Patient 22 year old. Anterior tilt of pelvis. Scoliosis "C" (2/A epg). Spondylolisthesis L5-S1. Pain with radiation to the le leg.



Figure 8 Patient 60 year old. Scoliosis lumbar le convex-in new classif cation-"C" scoliosis 2nd epg. Back pain syndrome from 10 years

Treatment

Chair extension for the spine e methods of therapy author (T. Karski) learned in Germany in 1968 in Orthopedic Department in Leipzig (in German: Perlsches Brett Behandlung). e extension therapy needs long time be realized-many days or weeks Additionally exercises in geothermal water and special method of standing – in abduction and internal rotation.

Results and Discussion

All old conceptions of etiology of "idiopathic scoliosis" [1,2,31,37-41] were never confirmed. e etiology of idiopathic

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