

**Supplementary Table S1. Concomitant anamnestic and symptomatic findings for specific back pain recorded in different disease groups in childhood and adolescence.**

Disease group	General symptoms, medical history	Neurological symptoms	Other pain locations	Local findings	Other
Infectious disease	Fever, weakness	Gait or other movement disorder, radicular symptoms, bladder or bowel dysfunction	Headache, abdominal or joint pain, myalgias	Local swelling, lymph node enlargement	Cough, nausea, diarrhea
Neoplasms/ spine tumors	Fever	Gait or movement disorder of the arms, radicular symptoms, bladder or bowel dysfunction	Abdominal, leg, or hip pain	Lymph node enlargement, paravertebral swelling	Pathologic fracture, respiratory insufficiency
Neoplasms / tumors of spinal cord, spinal nerves or paraspinal ganglia	Fever, respiratory insufficiency	Weakness with movement disorder of extremities, radicular symptoms, bladder or bowel dysfunction, signs of meningitis, clonus, muscle spasms, changes of character, hallucinations	Extremity pain, headache, or joint pain		
Congenital structural diseases of the spine	Known syndromic or genetic disease	Radicular symptoms, motor or sensory deficits of the extremities, bladder or bowel dysfunction	Thoracic or abdominal pain, gluteal, hip, leg, or joint pain, sprain pain, localized pressure pain	Dysraphia, disproportional growth, increase in scoliosis, kyphosis or lordosis, short trunk, asymmetry of pelvis or spine, torticollis, other deformities, palpable step deformity	Joint hypermobility, limitation of spinal flexion, load instability
Acquired structural diseases of the spine	Trauma, respiratory arrest after trauma, onset associated with athletic activity, glucocorticoid therapy, neoplasms or consumptive chronic diseases, respiratory disorders	Distal neurological deficits, radicular symptoms, bladder or bowel dysfunction	Leg pain, gluteal and hip pain, thoracic and abdominal pain, joint pain, compression pain	Local structural defects in the lumbosacral region, spinal deformity, short trunk, kyphosis, hyperlordosis, palpable step deformity	Limitation of spinal flexion, pelvic tilt, pain on hyperextension, limited knee extension, load instability, joint hypermobility

*Supplementary Table S1 continued*

Note: The symptoms are optional features for the different causes of the underlying diseases and are not obligatory.

Disease group	General symptoms, medical history	Neurological symptoms	Other pain locations	Local findings	Other
Neurological and neuromuscular diseases	Known cerebral palsy, spinal muscular atrophy, muscular dystrophy, dysraphia, neurofibromatosis, trauma or association with previous athletic activity, hemoglobinopathy	Motor or sensory disorders of the extremities, bladder or bowel dysfunction, acute paraparesis or tetraplegia, radiculopathy, ipsilateral hemiplegia and contralateral sensory disorder, muscle weakness	Headache, extremity pain, radicular pain	Progressive scoliosis	
Rheumatic and inflammatory diseases	Known chronic inflammatory joint disease (JIA), vasculitis or autoinflammatory disease, juvenile dermatomyositis, uveitis, fever, weight loss	Muscle weakness, gait disturbance	Sprain pain, hip pain, arthralgia, bone pain of extremities, thoracic or abdominal pain, compression pain	Peripheral arthritis, sacroiliitis, enthesitis, dermal vasculitis, spinal motion restriction, scoliotic deformity	Uveitis, photosensitive dermatitis
Hematological and vascular diseases	Known hematological disease (thalassemia, sickle cell disease), endocarditis, renal insufficiency, systemic lupus erythematoses, neurofibromatosis, cutaneous angiomas, glomerulonephritis, oral contraception, fever	Radicular pain, leg weakness to paraparesis, sensory disturbances of legs, speech disorder, bladder dysfunction	Thoracic, abdominal or flank pain, pelvic pain, acute bone pain, headache	Progressive scoliosis	Arterial hypertension, vomiting
Abdominal or thoracic diseases	Known cystic fibrosis, premenstrual development	Urinary retention or urinary incontinence	Thoracic or abdominal pain, flank pain, extremity pain		Arterial hypertension, constipation, vomiting, dyspnea

## References: Chapter 3.1.1 Causes and red flags for specific back pain in childhood and adolescence

### Infectious diseases

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