

REVIEW

Spontaneous Spondylodiscitis - Epidemiology, Clinical Features, Diagnosis and Treatment

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INTRODUCTION

Spontaneous spondylodiscitis (SS) is a rare but serious infectious disease which is a combination of an inflammatory process, affecting one or more adjacent vertebral bodies (spondylitis), with subsequent involvement of the intervertebral disk (discitis) and finally - the adjacent neural structures. The disease course is usually chronic, and the lack of specific symptoms often prolongs the time between its debut to the diagnosis.¹ This delay in diagnosis determines its potentially high morbidity and mortality.² The frequency of SS increases in recent years due to increasing age and the number of patients with reduced immunity caused by immunosuppressive continuous intravenous therapy, surgery, chronic infection, kidney failure, alcohol or drug abuse, AIDS, diabetes, etc.¹⁻⁴

EPIDEMIOLOGY OF SPONTANEOUS SPONDY-LODISCITIS

SS is estimated to account for 2-7% of all cases

Spontaneous spondylodiscitis is a rare but serious infectious disease which is a combination of an inflammatory process, involving one or more adjacent vertebral bodies (spondylitis), the intervertebral discs (discitis) and finally - the neighboring neural structures. In most cases the condition is due to a hematogenous infection and can affect all regions of the spinal cord, but it is usually localized in the lumbar area. The most common clinical symptom is a pronounced, constant and increasing nocturnal paravertebral pain, while consequently different degrees of residual neurological symptoms from nerve roots and/or spinal cord may appear. The disease course is chronic and the lack of specific symptoms often prolongs the time between its debut and the diagnosis. This delay in diagnosis determines its potentially high morbidity and mortality. Treatment is conservative in cases with no residual neurological symptoms and consists of antibiotic therapy and immobilization. Surgical treatment is necessary in patients with neurological deficit, spinal instability or drug resistance.

of osteomyelitis with a frequency of 1/100000 to 1/250000 per year. It is most common in people over 50 years of age, while in childhood it accounts for only 1-2% of bone infections.^{1-3,5,6} World literature reports of two peaks of the disease - in patients under 20 years and in the age range of 50-70 years.⁶⁻¹² In Europe, the disease varies from 0.4 to 2.4 cases per 100000, and the frequency depends on the inclusion criteria of the study (migrants, children, elderly, etc.).^{4,7} SS is more common in men and the ratio of men to women is 2.1:1.5.4,7,13,14 This sex predominance is not typical in patients under their 20s, and increases significantly in individuals over 80 years, which is explained by the greater comorbidity in men aged over 60 yrs. The frequency of spontaneous spondylodiscitis in recent years has increased as a result of the combined effect of the increase in susceptible population and better diagnosis.^{7,8,11,12} Two large Danish studies on the same population established increase in the number of vertebral osteomyelitis caused by Staphylococcus aureus from

1.1% to 2.2% for a ten-year period.^{16,17} According to other studies the increase in the frequency of SS in addition with increasing age is associated with prolonged intravenous, steroid or immunosuppressive therapy, diabetes mellitus, chronic renal and liver diseases and a larger number of surgical procedures.¹⁷ The incidence of postoperative SS varies from 0.5% to 18.8% depending on various factors (clinical characteristics of cases, used surgical and instrumentation accesses).¹

PATHOGENESIS

Pathogenic microorganisms can infect the spine in three pathways: a hematogenous pathway, in direct external inoculation and from adjacent affected tissues. Spontaneous spondylodiscitis is most often a complication of hematogenous metastasis from an infectious focus somewhere in the body. The relationship between SS and bacterial endocarditis is well documented in the literature. The risk patients with endocarditis to develop SS ranges from 2 to 20%, while one-third of patients with SS is diagnosed with endocarditis.¹⁸ In children, spinal arteries have many intradiscal anastomoses, which is the reason why the infection is limited to the intervertebral disc. In adults, spinal arteries do not supply blood to intervertebral discs, they are divided in two at their ends, so that the infection as a rule affects two adjacent vertebral bodies.¹⁹ The septic embolus causes ischemia and infarction, leading to destruction of the vertebral body structure, compression fracture, and as a result - spinal instability, deformation and risk of medullary compression. The rear elements of the vertebrae (pedicles, transverse processes, laminae and spinous processes) are affected very rarely in hematogenous infections due to their poor blood supply, compared to the body of the vertebra.²⁰ Uncontrolled infection can penetrate into surrounding soft tissues or spread back into the spinal canal, forming an epidural abscess, with the risk of further development of paraplegia, subdural abscess and meningitis. The venous system has a significantly minor role in the pathogenesis of SS. It is manifested by the elevated intra-abdominal pressure which causes a retrograde venous reflux from the pelvis to the paravertebral plexus in which an existing infection is transmitted to the spine.²¹ Infection of the neighbouring structures occurs from an adjacent focus, mostly from infected aortic graft, rupture of the esophagus or retropharyngeal abscess.¹ Recent years have seen an increase in direct mechanisms of infection after surgery, epidural or spinal puncture procedures and their frequency varies in some series to 25 - 30%.^{18,22}

CAUSE OF INFECTION

About half of the cases of SS are caused by Staphylo*coccus aureus*, as reported in the literature frequency ranges from 20% to 84%.^{1,2,8,23-29} The majority of the micro-organism is sensitive to methicillin, but in recent years cases with staphylococci resistant to the medication become more frequent.¹ Gram-negative microorganisms in patients with SS are isolated in 7-33%, as the most common species are Escherichia coli, Proteus spp., Klebsiella spp, Enterobacter spp and Pseudomonas aeruginosa.^{22-25,27,28} The latter are associated with gastrointestinal or urinary infection, diabetes mellitus, immunosuppressive and adult patients.^{1,4} Coagulase-negative staphylococci cause spinal infection in 5-16%.^{23-25,27-29} In postoperative infections and those associated with endocarditis often Staphylococcus epidermidis is isolated.¹⁸ Enterococci and Streptococci are also reported as causing SS in 5-20% of cases, as most often the septic embolus is of dental or cardiac origin.^{22,23} Streptococcus pneumonia is isolated very rarely.³⁰ Anaerobic agents of SS are observed in only 3%.¹⁴ Propionibacterium acnes is associated primarily with infection occurring in the vicinity from implanted material, but it is also observed in cases without an established infectious focus.^{14,31} Bacteroides fragilis and other anaerobic microorganisms are observed in patients with intra-abdominal infections or patients with diabetes mellitus.^{23,32}

Spinal infections are rarely caused by fungal infections. According to Gouliouris T. et al., *Candida albicans* occurs in 1-2%, while C. D'Agostino et al. report 9.2%.^{8,29} Risk factors for the occurrence of fungal infection are immunosuppressive conditions, diabetes mellitus, prolonged broad-spectrum antibiotic or parenteral therapy, and hospitalization in intensive care wards.¹ Data in the literature indicate that polymicrobial agents are found in about 10%.^{13,14} Several large prospective studies have found that no causative agent of SS is isolated in 21% - 34% of the cases.^{7,23,29,30,33}

CLINICAL PRESENTATION

According to most authors, spontaneous spondylodiscitis is a disease that occurs in older people and those with comorbidities, which are risk factors for the occurrence of infection.²⁻⁵

SS can affect the entire spine. Most authors report more often lumbar location, but in the series of M.

Lee et al. the thoracic section of the spine is involved in 52% and the lumbar - in 43%.^{2,5,13,22,34,35,36} Multi-level localisation of SS in most studies ranges between 3% and 13%.^{2,12,13,17,18,27,37,38} The greatest frequency of multi-segment involvement - 68%, is reported in the study of Patzakis MJ et al., involving large numbers of patients on continuous intravenous therapy.³⁹

The period between the debut of disease to diagnosis varies between 1 and 6 months.^{5,6} This is due to diffusion and non-specific initial symptoms (vertebralgia), lack in some cases of toxic-infectious syndrome, as well to the fact that in older patients the tendency is to think of a degenerative disease, treated conservatively, and no imaging is done.⁵ This allows for the infection to spread to the epidural space and cause consequently more or less pronounced neurological deficits, as the frequency of formation of epidural abscess varies from 10 -27%.^{2,5,29} Permanent vertebralgia, increasing at night and rigidity of the paravertebral muscles are the most common symptoms of SS, observed in more than 80% of the cases.^{1,2,5,8,13,29} Some patients report febrile state before the debut of pain, most likely due to the hematogenous inoculation of the spine, followed by lasting afebrile periods.¹ Temperature above 37.5°C is an unstable symptom seen in 13 to 68% of cases.^{2,5} Neurological symptoms are observed in 1/3 of the cases and range from radiculalgia of various intensity and/or radiculopathy (29%) to paresis (2-13%) and pelvic reservoir disorders (10%).^{1,2,5,13,23,35} Epidural abscesses are detected in the majority of patients with pronounced neurological symptoms.²³ Toxic infectious symptoms are present in 5 to 50% of cases and are manifested by anorexia, nausea, vomiting, weight loss, etc.^{2,16}

LABORATORY TESTS

Changes in blood test results are an important element in the diagnosis of SS in the presence of lower back and back pain. In 34-65% of all cases there is an increase of leukocytes (>11.5×10⁹) and the rate of erythrocyte sedimentation rate (ESR) is 72-100%. Increased ESR over 70 mm/h is found in 72%, and more than 100 mm/h - in 17%.^{2,5,11,23} C-reactive protein (CRP) is the most sensitive marker of an infection in the body. In SS it is elevated like ESR.^{2,5,37,39} CRP normalizes faster than ESR and is an useful indicator of an improvement.⁴ CRP levels drop by 50% per week is a good predictor for the treatment of the disease.⁴ Increased alkaline phosphatase occurs in about 62% of patients with

SS caused by *Staphylococcus aureus*, which is associated with the presence of bone destruction. In patients with normal hepatic and biliary function increased alkaline phosphatase suggests possible presence of osteomyelitis.⁴⁰

NEURO IMAGING

Spondylography is the first imaging diagnostic tool, performed in patients suffering from back pain. In the early stages of the disease, it is most often negative since there are still no destructive changes in the bone structure of the spine.⁴¹ At a later stage non-specific modifications of the affected disks appear (reduction) and vertebral bodies are presented with vague contours of their end plates, which may be caused by degenerative or neoplastic processes (**Fig. 1**).⁵ Computer tomography (CT) enables detection of significantly more details than bone changes characteristic of spondylodiscitis (**Fig. 2**).^{6,16,41} The application contrast medium provides better visualization of available epidural or paravertebral abscess.⁴²

Magnetic resonance imaging (MRI) has greater diagnostic value of CT and is the tool of choice for suspected spondylodiscitis.^{2,5,6} MRI visualizes the entire spine and allows identification of infectious changes in its various sections. Intravenous application of contrast medium indicates concentration of contrast in the infectious focus and is mandatory in suspected epidural abscess.⁴³ In spondylodiscitis conventional MRI findings in T₁ sequence have a weak signal from the affected vertebral body, intervertebral disc and destruction of cartilage surfaces and at T₂ sequence - a strong signal on the part of the affected body and disc (**Figs 3A, 3B**).⁴²

TREATMENT OPTIONS

There is no consensus on the treatment strategy of spinal infections because so far no randomized studies have been published on the results of various treatments.⁴ Conservative treatment is administered in high surgical risk, mild clinical symptoms and changes in vertebral bodies.³⁵ It is preferable in adult patients in poor general condition. Key issues are correct choice of antibiotic and achievement of adequate fixation of the affected spinal segment, which requires immobilization for weeks.⁴³ The quickest and least invasive method for obtaining bacteriological diagnosis is the isolation of the causative organism from blood culture. The literature data on its positivity range from 34 to over 70%.^{6,43} Currently many authors recommend percutaneous



Figure 1. Spondylography (face and profile) - reduction of the body of L_4 vertebra and destruction of bottom end plate on top of L_3 and L_4 .



Figure 2. CT: **A.** sagittal and **B.** 3D reconstruction - lowering of L_{2-3} intervertebral disk and destruction of bottom end plate on top of L_2 and L_3 .



Figure 3. (A and B) MRI of the lumbar spine; **A.** sagittal projection T_1 - weak signal from affected Th_{12} and L_1 vertebral bodies and destruction of Th_{12} bottom and top of L_1 end plate; **B.** T_2 sagittal projection - a strong signal from the affected body and disk; **C.** postoperative CT (sagittal reconstruction with bone window) - decompression at the level of Th_{12} - L_1 , correction of spinal deformity and stabilization through transpedicular instrumentation with titanium implants.

bone biopsy under ultrasound or CT control, but it makes sense in case of subsequent conservative treatment.44 Urgent surgical treatment of spondylodiscitis is necessary in pronounced neural deficit, instability or deformity of the affected segment, presence of an epidural abscess or suspected imaging data for neoplastic process.^{8,11,12} Planned surgical intervention is necessary in drug-resistant pain and/or failure of conservative therapy.^{6,41,42} The goal of surgery is decompression of neural structures, taking material for microbiological examination, reconstruction and stabilization of the affected segment. Surgery allows timely and quality liquidation of the consequences of the infection and faster mobilization of patients.⁴² Currently, back operational access is preferred in spondylodiscitis in the thoracic and lumbar area and titanium implants for stabilization are used, while it has not led to increased incidence of recurrent infection (Fig. 3C).^{42,45}

PROGNOSIS OF THE DISEASE

The prognosis of SS before the antibiotic era was poor, but even today it can be potentially fatal.⁵ Hospital stay of patients varies between 30-57 days and mortality is between 2-17%.²⁻⁵ According to many authors, if the interval between diagnosis and the debut of the disease is greater than 60 days, an adverse outcome is more commonly observed in the sense of incomplete recovery of the neurological deficit.^{6,23,42,43}

CONCLUSION

Spondylodiscitis should be suspected in any patient with prolonged vertebral pain in all departments of the spine, with a history of febrile episodes, paraclinical data for leukocytosis, increased ESR and elevated C-reactive protein. This is especially true for people suffering from diabetes or other risk comorbidities. MRI enables visualization of the entire spine and gives a very good opportunity to confirm the diagnosis in the earliest stage of the disease prior to the development of neurological deficit. Early diagnosis avoids surgery, as well as prolonged hospitalization and immobilization.

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Спонтанный спондилодисцит – эпидемиология, клинические особенности, диагноз и лечение

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Petkova AS, Zhelyazkov CB, Kitov BD. Spontaneous spondylodiscitis - epidemiology, clinical features, diagnosis and treatment. Folia Medica 2017;59(3):254-260. doi: 10.1515/folmed-2017-0024 Спонтанный спондилодисцит является редким, но серьёзным инфекционным заболеванием, которое представляет собой сочетание воспалительного процесса, который затрагивает одно или несколько прилегающих тел позвонков (спондилёз), межпозвоночные диски (дисцит) и впоследствии – соседние нейронные структуры. В большинстве случаев состояние обусловлено гематогенной инфекцией и может затронуть все области спинного мозга, но обычно локализовано в поясничной области. Наиболее распространённым клиническим симптомом является сильно выраженная, постоянная и усиливающаяся вечером паравертибральная боль, а впоследствии проявляются варьирующие по степени выраженности остаточные неврологические симптомы, затрагивающие нервные корешки и/или спинной мозг. Течение болезни является хроническим и отсутствие конкретных симптомов в большинстве случаев удлиняет период времени между началом заболевания и диагнозом. Подобная задержка диагноза обуславливает высокие показатели заболеваемости и смертности. Лечение является консервативным в случаях отсутствия остаточных неврологических симптомов и состоит из антибактериальной терапии и иммобилизации. Хирургическое лечение необходимо при пациентах с неврологическим дефицитом, нестабильностью позвоночника и лекарственной резистентностью.

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