1				
	Diseases of the musculoskeletal system			
	Tomáš PARÁK			
2	Diseases of the musculoskeletal system			
	■Rheumatology - non-surgical diseases			
	■Orthopedics - surgical diseases■			
	■Traumatology - conditions after injuries, treated surgically			
	■Rehabilitation - conservative, often supportive treatment			
	Conservative approach = no surgery ■			
3	Diseases of the musculoskeletal system Basic questions about non-accidental damage:			
	1. Inflammatory x non-inflammatory			
	2. Acute x chronic			
	3. Articular x non-articular			
	4. Which and how many joints are affected			
	5. Patient's age1.			
4	Diseases of the musculoskeletal system			
	Distinguishing between inflammatory and non-inflammatory process:			
	<u>inflammatory</u> non -			
	inflammatory			
	Redness, heat in the area sometimes not			

	Soft tissue swelling	yes	<u>no</u>		
	Morning stiffness over 1 hour	ves	no		
	Systemic symptoms	sometimes	no		
	Elevated levels of inflammatory	ves	no		
	markers				
5	Diseases of the musculoskele	tal system			
	Distinguishing between acute ar	nd chronic disease	es		
	Acute - gout (arthritis urica), inf	ectious arthritis, rl	heumatic		
	Chronic - osteoarthritis, rheumat tissue diseases	toid arthritis, syste	mic connective		
6 Diseases of the musculoskeletal system Distinguishing between joint and non-joint problems					
	articular	non – articular			
	Pain at rest diffuse	spot			
	Pain when moving also	passive	active		
	Swelling often		rare		
Diseases of the musculoskeletal system Disabilities of various joints Impaired supporting joints – osteoarthritis Disability of 1 - 3 joints - infection, gout Polyarthritis - rheumatoid arthritis, systemic diseases					
	Distribution of joint impairment Distal interphalangeal joints - os joints - rheumatoid arthritis	teoarthritis Metaca	arpophalangeal		
8 Diseases of the musculoskeletal system Begining of problems according to age					

	Up to 40 years	<u>40 – 60 years</u>	<u>over 60 years</u>		
	Systemic diseases osteoarthritis	rheumatoid	arthris		
	Spondylarthritis (spine)	goat	polymyalgia		
	Rheumatic fever	nonspecific pain	paraneoplast.		
	Inflamatory disorders				
9	Diseases of the musculoskeletal system Rheumatoid arthrits Chronic autoimmune disease Symmetrical inflammation of the joints, most often the joints of the hand and feet Inflammatory bone erosions and articular cartilage damage Cyclic and progressive course Joint deformities, ulnar deviation				
	Extra-articular involvem	ent - heart, lungs, e	yes		
10	Rheumatoid arthritis				
11	Rheumatoid arthritis				
12	Diseases of the muscu	ıloskeletal system			
	Ankylosing spondylitis - Bechterew's disease				
	The disease of young men, up to 90% is HLA-B27 positive Impairment of sacroiliac joints. Bamboo spine Morning stiffness, improves by morning exercise after waking up Chest pain, finally ankylosis, anteflexion				
	Extra-articular symptom	s - eyes (uveitis), G	IT - enteritis, colitis		
13	Ankylosing spondylitis	s - Bechterew's dis	ease		
	, , ,				
14	Bechterew's disease				
15	Diseases of the muscu Systemic lupus erytem	•			
	Production of non-speci	` ,			
	Joint manifestation	organ anabodios			

Skin disorders – butterfly rash, photosensitivity Atherosclerosis acceleration, increased mortality because of MI **Nephritis** Lung Nervous system – often the first manifestation! Neuropsychiatric disability, convulsions, psychosis 16 **SLE** Diseases of the musculoskeletal system **17** \Box Acute rheumatic fever Mostly children aged 5 -14, rarely over 30 years Autoimmune reaction to infection, mostly streptococcus A Joint involvent – signs of inflammation, migrating arthritis within hours Fever above 39° C It affects asymmetrically large joints – knee, ankle, wrist, elbow Rheumatic heard damage – acquired valve defects Acute rheumatic fever 19 Diseases of the musculoskeletal system Crystal – Associated Arthtopathies, gout (arthritis urica *uratica*) Accumulation of uric acid in serum Disorder of purien metabolism Depositions of monosodium urat (MSU) crystals in joints Joint manifestations – typically 1. MTP A gout attac Storage of urats – tophaceous deposits Urat nephropathy 20 Gout Gout (tophaceous deposits) Diseases of the musculoskeletal system Osteoarthritis Degenerative joint disease Risk factors - age, heredity, obesity, excessive use joint (occupation, physical activity) Supporting joints - coxarthrosis, gonarthrosis, omarthrosis

	(shoulder) Spondylosis and spondylarthrosis
23	Gonartrosis
24	Spondylosis and spondylarthrosis
25	
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26	Thank you