Revision checklists

History taking

Symptoms		
	Pain Swelling Stiffness Limp Pattern of joint involvement	
Evolu	tion	
	Acute or chronic? Associated events Response to treatment	
Involvement of other systems		
	Skin, eye, lung or kidney symptoms? Malaise, weight loss, fevers, night sweats?	
Impact on patient's lifestyle		
	Patient's needs/aspirations Behavioural changes Impact at school Limitation of activities	
Focused questions for the child with a learning disability		
	Regression in motor milestones? Change in behaviour? Subtle adaptations noted to perform activities? Change in gait or shape of fingers?	



pGALS screening questions □ Any pain, swelling or stiffness in muscles, joints or back? Dress completely without any difficulty? □ Walk up and down stairs without any difficulty? pGALS screening examination Gait Observe walking including on tiptoes and heels Observe patient standing: Front, sides and back Arms Hands in front, palms down, fingers outstretched □ Backs of hands, make fist ☐ Each finger in turn to touch thumb Palpate metacarpophalangeal joints ☐ Hands together, then back—to-back Reach up, 'touch the sky', 'look at ceiling' ☐ Hands behind neck Legs □ Patient lying supine ☐ Comment on muscle bulk, leg alignment, symmetry □ Inspect soles of feet Palpate for an effusion at knee ☐ Flex and extend the knee (active and passive) Palpate for crepitus of the knee Internal rotation of hip Spine ☐ Inspect spine: comment on appearance □ Place ear to shoulder

☐ Open mouth and place 3 fingers vertically within



Bend and touch toes

pREMS General Principles

Introduction □ Introduce Explanation □ Verbal consent □ Places child at ease ☐ Observe for pain Look ☐ Scars, swelling, rashes Muscle wasting □ Posture, alignment of joints □ Footwear, walking aids □ Ensure appropriately exposed Feel Temperature Swelling Tenderness □ Crepitus ☐ Muscle tone Move ☐ Full range of movement – active and passive 'Copy me' approach Restriction - mild, moderate or severe? **Function**

☐ Comment on functional assessment of joint



pREMS examination of the hand and wrist Introduce yourself/gain consent to examine Inspect hands (palms and backs) for muscle wasting skin and nail changes ☐ Check wrist for carpal tunnel release ☐ Feel for radial pulse, tendon thickening and bulk of thenar and hypothenar eminences ☐ Assess median, ulnar and radial nerve sensation ☐ Assess skin temperature □ Squeeze MCP joints ☐ Bimanually palpate swollen or painful joints, including wrists □ Look and feel along ulnar border Assess full finger extension and full finger tuck □ Assess wrist flexion and extension – active and passive Assess median and ulnar nerve power Assess function: grip and pinch, picking up small object Perform Tinel's test (if suggestion of carpal tunnel syndrome) Special tests: nailfold capillaroscopy, hypermobility assessment pREMS examination of the elbow Introduce yourself/gain consent to examine □ Look for scars, swellings or rashes Assess skin temperature □ Palpate over head of radius, joint line, medial and lateral epicondyles ☐ Assess full flexion and extension, pronation and supination – actively and passively ☐ Assess function – e.g. hand to nose or mouth Special tests: muscle power, peripheral nerves, peripheral pulses, hypermobility, entheses pREMS Examination of the shoulder Introduce yourself/gain consent to examine □ Inspect shoulders from in front, from the side and from behind Assess skin temperature □ Palpate bony landmarks and surrounding muscles Assess movement and function: hands behind head, hands behind back ☐ Assess (actively and passively) external rotation, flexion, extension and abduction Observe scapular movement Special tests: muscle power, peripheral nerves, peripheral pulses, hypermobility



KEI	vis examination of the hip		
	Introduce yourself/gain consent to examine		
Vith the patient lying on couch:			
	Look for flexion deformity and leg length disparity Check for scars Feel the greater trochanter for tenderness Assess full hip flexion, internal and external rotation Perform the Thomas test Measure leg length Special tests: Gowers's test, entheses, muscle power, hypermobility		
Vith 1	the patient standing:		
	Look for gluteal muscle bulk Measure thigh girth Perform the Trendelenburg test Assess the patient's gait		
REMS examination of the knee			
	Introduce yourself/gain consent to examine		
Vith t	the patient lying on couch:		
	Look from the end of the couch for varus/valgus deformity, muscle wasting, scars and swellings Look from the side for fixed flexion deformity Assess skin temperature With the knee slightly flexed palpate the joint line and the borders of the patella Feel the popliteal fossa Perform a patellar tap and cross fluctuation (bulge sign) Assess full flexion and extension (actively and passively) Assess stability of knee ligaments medial and lateral collateral – and perform anterior draw test Measure leg length, thigh girth Special tests: Clarke's test, patellar tracking, thigh-foot angle, hamstring and iliotibial tightness, knock-knee/bow-leg assessment, hypermobility		
Vith 1	the patient standing:		
	Look again for varus/valgus deformity and popliteal swellings Assess the patient's gait		



pRE	MS examination of the foot and ankle
	Introduce yourself/gain consent to examine
With	the patient lying on couch:
	Look at dorsal and plantar surfaces of the foot Assess skin temperature Palpate for peripheral pulses Squeeze the MTP joints Palpate the midfoot, ankle joint line and subtalar joint Assess movement (actively and passively) at the subtalar joint (inversion and eversion), the big toe (dorsi- and plantar flexion), the ankle joint (dorsi- and plantar flexion) and mid-tarsal joints (passive rotation) Look at the patient's footwear Measure leg length Special tests: thigh-foot angle, hypermobility, entheses, muscle power, nailfold capillaroscopy
With	the patient standing:
	Look at the forefoot, midfoot (foot arch) and the hindfoot Assess the gait cycle (heel strike, stance, toe-off)
pRE	MS examination of the spine
	Introduce yourself/gain consent to examine
With	the patient standing:
	Inspect from the side and from behind Palpate the spinal processes and paraspinal muscles Assess movement: lumbar flexion and extension and lateral flexion; cervical flexion, extension rotation and lateral flexion Special tests: one-leg standing spine extension test
With	the patient sitting on couch:
	Assess thoracic rotation
With	the patient lying on couch:
	Perform straight leg raising and dorsiflexion of the big toe



□ Assess limb reflexes

Examination tips for children with a learning disability, especially Down's syndrome

Be opportunistic – observe child move around the room and in play
DA most commonly affects the small joints of the hands and wrists. Start with these joints if the
child is not likely to tolerate a full examination
Compare sides, as it may be difficult to appreciate joint restriction in a child with joint
hypermobility

