

SMART PAPER – Movement Disorders Dementias

<p>PROGRESSIVE SUPRANUCLEAR PALSY SYNDROME</p> <p><i>Classic brain-stem variant – Diplopia / blurred vision. Photophobia. Brain stem atrophy. Vertical gaze palsy – going downstairs, tripping on objects, reading., Slurred speech. Stiffness and motor slowing, though tremor usually absent.</i></p>	<p><u>Timed attention tests will be affected by slowness. Executive functions affected, esp phonemic fluency, VOSP number-location.</u></p> <p>Postural instability. High frequency of falls b'wards (early sign). Symmetrical Parkinsonian features. Later: swallowing difficulties</p>	<p><u>Reduced speech output. Nonfluent aphasia may occur. Impaired on recall rather than recognition memory.</u></p> <p>Early changes in personality may occur – apathy, emotional lability, slowed thinking. Cortical and other variants distinguished.</p>	<p>CORTICOBASAL SYNDROME</p> <p><u>Limb apraxia, usually unilateral. Alien hand. Copying unfamiliar hand postures impaired. Difficulty in tasks with one hand, e.g. toss coin</u></p>	<p><u>Executive dysfunction, memory impairment & parietal lobe deficits. VOSP spatial subtests.</u></p> <p>Cortical sensory loss. Graphesthesia. Myoclonus (jerky movements). Parietal & frontal atrophy.</p>	<p><u>Language deficits may encompass both expression & syntactic comprehension.</u></p> <p><u>Memory less impaired than in AD. Cognitive symptoms may precede motor symptoms.</u></p>
<p>PARKINSON'S DISEASE (PD)</p> <p>Slowing down & motor symptoms usually precede cognitive. Sometimes weight loss, constipation, and olfactory loss reported.</p> <p>Features include tremor, slowness, loss of facial expression, shuffling gait., small handwriting. Hypophonic speech. Depression common.</p> <p><u>Visuospatial deficits usually mild. Executive deficits variable, often mild in early stages. Impaired on timed perceptual-motor tests. Small handwriting. Recall rather than recognition deficits.</u></p> <p>Non-motor symptoms more common in older PD patients - loss of interest, visual or extra-campine hallucinations, cog symptoms, anxiety, change in libido / sexual activities. Marked olfactory loss in PD may predict dementia.</p>	<p>'PARKINSON'S PLUS' DEMENTIAS</p> <p><i>'Parkinsons PLUS' conditions seldom have resting tremor, and usually respond poorly to dopamine. Progression is usually faster than in PD. CBD and PSP decline faster than AD. PD with dementia may differ from LBD only in major cognitive symptoms following motor symptoms in former, and vice versa in LBD. Asking patients to clap 3 times may be abnormal, esp in PSP.</i></p>				<p>LEWY BODY DEMENTIA</p> <p>Acting out behaviour In vivid dreams</p> <p>Onset usually after 65 yrs. Affects men more. Likely to have falls, & autonomic symptoms - fainting, urge incontinence. MR scan normal.</p> <p>Rigidity, facial impassivity & symmetry of motor signs. Tremor less common. Behavioural precede motor changes.</p> <p>Visual hallucinations – animals, people. Non-threatening. May be familial. Presence of other ('extracampine'). Capgras may occur – thinks imposters exist.</p> <p>Fluctuating cog. impairment. Stares into space for periods. Disorganized ideas, speech. Sleeps during day.</p>
<p>NORMAL PRESSURE HYDROCEPHALUS</p> <p>Gait disturbance, incontinence and impaired cognitive function. Variable apathy.</p> <p>Early or severe cognitive deficits suggests alternative additional pathology</p> <p><u>Executive dysfunction & mild-mod. memory impairment. Slowing. No major language or visuo-perceptual deficits.</u></p> <p>Periventricular lucencies and minimal cortical atrophy.</p>					<p>SPORADIC CJD</p> <p>Myoclonus (jerky movements) and gait disturbance. EEG, CSF and MR (caudate & putamen) changes.</p> <p><u>Perseverations, intrusions from earlier tasks, backtracking, lapses of attention.</u></p> <p>Rapidity of cognitive decline.</p>
<p>MULTIPLE SYSTEM ATROPHY</p> <p>Onset in 50s/60s. Duration 5-7 years. Urinary incontinence. Orthostat. hypotension, constipation; erectile problems. Parkinsonian & cerebellar versions. REM sleep disorder. Slurred speech & pathol. laughter, crying occasionally seen. Relatively rapid decline. Parkinsonian features don't respond well to L-dopa.</p> <p><u>In most cases, relatively mild cognitive impairment, primarily affecting executive functions, though may be more marked than in PD.</u></p> <p>MELAS. Strokes, headache, hearing loss, early onset. MS, ADEM, VER, EEG, MRI white matter lesions (MS). In MS, usually attention and memory deficits.</p>	<p>Encephalitis Lethargica. Post-encephalitic. Sleep disturbance. Oculomotor signs. May make good recovery with steroids. Occasional occurrence of delayed-onset Parkinsonian signs.</p> <p>Rare - Metachromatic leukodystrophy (demyelination on MRI), CADASIL, Nieman-Pick Type C, Syphilis, HIV, Mitochondrial Disease.</p> <p>Systemic Lupus Erythematosus. May present with chorea & dementia, esp those with anticardiolipin antibodies.</p> <p>Neuroacanthocytosis. Genetic disorder, with HD-like features. Frontal-subcortical dysfunction. Striatal atrophy</p>	<p>Subacute diencephalic angioencephalopathy – features of patients with thalamic lesions.</p> <p>Friedrich's Ataxia. Spino-cerebellar path. <20yrs onset</p> <p>Adrenoleukodystrophy. White matter lesions. May have schizophrenia features.</p> <p>Whipple's Disease. GI symptoms, oculomotor with chewing abnorm., hypothalamic symptoms.</p> <p>Motor Neurone Disease. Frontal dementia, esp in bulbar type. Nonfluent aphasia rather than semantic dementia. Verb comprehen. impaired.</p>			<p>OTHER CONDITIONS</p> <p>Fragile X with tremor & ataxia – late-onset frontal-subcortical syndrome. PD signs. Cerebellum lesions.</p> <p>Vasculitis. Sarcoidosis. Lymphomatous lesions: primary-sec.</p> <p>Frontotemporal dementia & Parkinsonian signs – abnormality on chromosome 17. PSNI Alzheimer mutation may include movement disorder.</p> <p>Wilson's Disease. Copper metabolism tests. Distinct rings around iris. High signal in basal ganglia, esp putamen. Young age. PD signs, ataxia, or slurred speech.</p> <p>Hashimoto's encephalopathy. Thyroid-related. Myoclonus. Occas. seizures. Steroid responsive. Female bias. Amnesia, attention deficits and aphasia may occur.</p>