

## 2014.2.B.3

<p><b>Question 1</b> Lung Tumours (pp 721-731)</p> <p><b>Subject:</b> Path</p> <p>LOA: 2</p>	<p>1. What are recognised aetiological factors in lung cancer?</p> <p>Prompt for detail: Are you aware of any environmental factors that place you at greater risk for lung cancer?</p> <p>2. What are the most common presenting symptoms of lung cancer?</p> <p>3. What are the clinical effects of local lung tumour spread?</p> <p>4. What paraneoplastic syndromes are associated with lung cancer?</p> <p>PROMPT: What hormones might be produced?</p>	<p><b>Tobacco smoking</b> - 87% of cancers in recent or current smokers- 10x increase in risk, Statistically associated with daily amount; inhalation tendency; duration of habit, Histologic changes in respiratory epithelium in smokers</p> <p><b>Industrial Hazards</b> Ionising radiation, Uranium, Asbestos</p> <p><b>Air pollution</b> - Radon</p> <p><b>Molecular genetics</b> - Familial clustering</p> <p><b>Precursor lesions</b> - Squamous dysplasia and CIS, Atypical adenomatous hyperplasia, Diffuse idiopathic pulm neuroendocrine cell hyperplasia</p> <p><b>Cough</b> (75%), <b>Loss of weight</b>(40%), <b>Chest pain</b> (40%), <b>Dyspnoea</b> (20%), <b>Haemoptysis</b></p> <ul style="list-style-type: none"> <li>• <b>Airway obstruction</b> -&gt;<b>pneumonia, abscess, lobar collapse</b>, Lipoid pneumonia,</li> <li>• <b>Obstruction of SVC</b> leading to SVC syndrome</li> <li>• <b>Pleural effusion,</b></li> <li>• <b>Pericarditis or tamponade,</b></li> <li>• <b>Hoarseness</b> (r/c laryngeal n),</li> <li>• <b>Dysphagia</b> (oesophagus), Rib destruction,</li> <li>• <b>Diaphragmatic paralysis</b> (phrenic nerve)</li> <li>• <b>Horner syndrome</b> (sympathetic ganglia)</li> </ul> <p>Clinically significant in 1-10% of patients ACTH- <b>Cushing's</b> (predominantly small cell) ADH—<b>hyponatraemia</b> (predominantly small cell) PTH, PTH related peptide, PGE and some cytokines- <b>hypercalcaemia</b> (predominantly small cell/squamous cell), <b>Calcitonin-hypocalcaemia</b>, <b>Gonadotrophins-</b></p>	<p>Tobacco smoking and 2 other bold to pass</p> <p>3 to pass</p> <p>5 of 8 bold to pass</p> <p>2/3 bold + 1 other to pass</p>
		<p><b>gynaecomastia, 5HT and bradykinin-wheeze/flushing</b></p>	

## 2013.2.A.2

<p><b>Pathology:</b> Clinical effects of tumours</p>	<p>What is the definition of a neoplasm?</p> <p>How may a malignant tumour affect the 'host'?</p> <p>(Prompt: what is meant by paraneoplastic syndrome?) Give examples of paraneoplastic endocrinopathies</p>	<p><b>Abnormal growth of a tissue</b> <b>Growth exceeds and is uncoordinated with that of the original tissue</b> <b>Growth continues in the absence of the stimuli which evoked the change</b> <b>(preys on host and serves no purpose)</b></p> <p><b>Local and metastatic direct effects.</b> Pressure, Bleeding, ulceration, rupture and infarction. <b>Cachexia</b> <b>Hormonal</b> <b>Paraneoplastic:</b></p> <ul style="list-style-type: none"> <li>- <i>Endocrinopathy with 3 examples (Cushings, SIADH, Ca++ up, hypoglycaemia, Carcinoid synd, polycythaemia)</i></li> <li>- <i>Nerve and muscle – myasthenia,</i></li> <li>- <i>Skin - acanthosis nigricans, dermatomyositis</i></li> <li>- <i>Bone: HPOA and clubbing</i></li> <li>- <i>Blood/Vascular: anaemia, venous thrombosis</i></li> </ul>	<p>Must get the gist of all 3</p> <p>3 of 4 bold</p> <p>3 examples of paraneoplastic syndrome</p>
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