		Chemotherapy Drugs							
Oral and Dental Implications of Chemotherapy Drugs Commonly Used to Treat Lung Cancer		Cisplatin	Carboplatin	Gemcitabine	Etoposide	Paclitaxel	Docetaxel	Pemetrexed	Vinorelbine
Adverse Effects	Dental Implications	Y	Y	Y	Y	Y	Y	Y	Y
		Hen	natological (	Blood Cells)					
Leukopenia (Depressed White Blood Cell Counts)	Decreases ability to fight oral infection, patients may require prophylactic antibiotic coverage for some procedures	<b>✓</b>	<b>√</b> √	<b>√</b> √	<b>√</b> √		<b>√</b> √	<b>√</b>	<b>√</b> √
Neutropenia (Depressed Neutrophils)	Decreases ability to fight oral infection, patients may require prophylactic antibiotic coverage for some procedures **		<b>√</b> √	<b>√</b> √		<b>√</b> √	<b>√</b> √	<b>√</b>	

Thrombocytopenia (Low Platelet Counts)	Delays or prevents hemostatis (clotting) Dental treatment that may cause bleeding (i.e. cleaning, extractions or other invasive procedures) must be delivered with careful consideration and planning.	✓	<b>√</b> √	<b>√</b>	<b>√</b>		√ √	<b>✓</b>	<b>✓</b>
Anemia (Low Hemoglobin)	May cause fatigue and prevent delivery of routine dental care, leading patients to avoid routine dental care due to fatigue and malaise		<b>√</b> √	<b>√</b> √	<b>√</b>	<b>✓</b>	<b>√</b> √	<b>√</b>	<b>√</b> √
			Oral (Mo	outh)					
Mucositis (Oral Ulcers)	Appearance of ulcers may make delivery of dental care painful, and necessitates delay in dental treatment delivery, may require patient directed change in dietary intake		<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b> √		
Stomatitis (Inflammation of the mouth)	Stomatitis is essentially severe mucositis affecting the entire mouth and throat			<b>√</b>	<b>√</b>	<b>√</b> √			

Dysegeusia (Altered sense of taste)	Makes eating less enjoyable and contributes to loss of weight during treatment		<b>√</b>				<b>√</b>	<b>✓</b>	
Xerostomia (Dry mouth)	Prolonged dry mouth leads to very rapid increase in the presence of dental caries (cavities) and ultimately loss of teeth, failure of fixed bridgework. If transient, not a problem. Most chemotherapy causes transient xerostomia that reverses after recovery.	✓	✓	✓	✓	✓	<b>√</b>	✓	✓
Nausea	Lowers patients tolerance of intra-oral manipulation due to an accentuated gag reflex	<b>√</b> √		<b>√</b> √	<b>√</b>	<b>√</b> √	<b>√</b>		<b>✓</b>
	Neuromuscular (Sensory nerves and muscles)								
Peripheral Neuropathy	Fine motor control difficult and may alter ability to self care (brushing and flossing) if severe enough	<b>√</b>	<b>√</b>		1	<b>√</b> √	<b>/</b> /	<b>✓</b>	<b>√</b>

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- Risk of side effects less than 50% Risk of side effects greater than 50% significant adverse effects related to dental treatment delivery • Y