

# Treatment of syphilis and Gonorrhoea

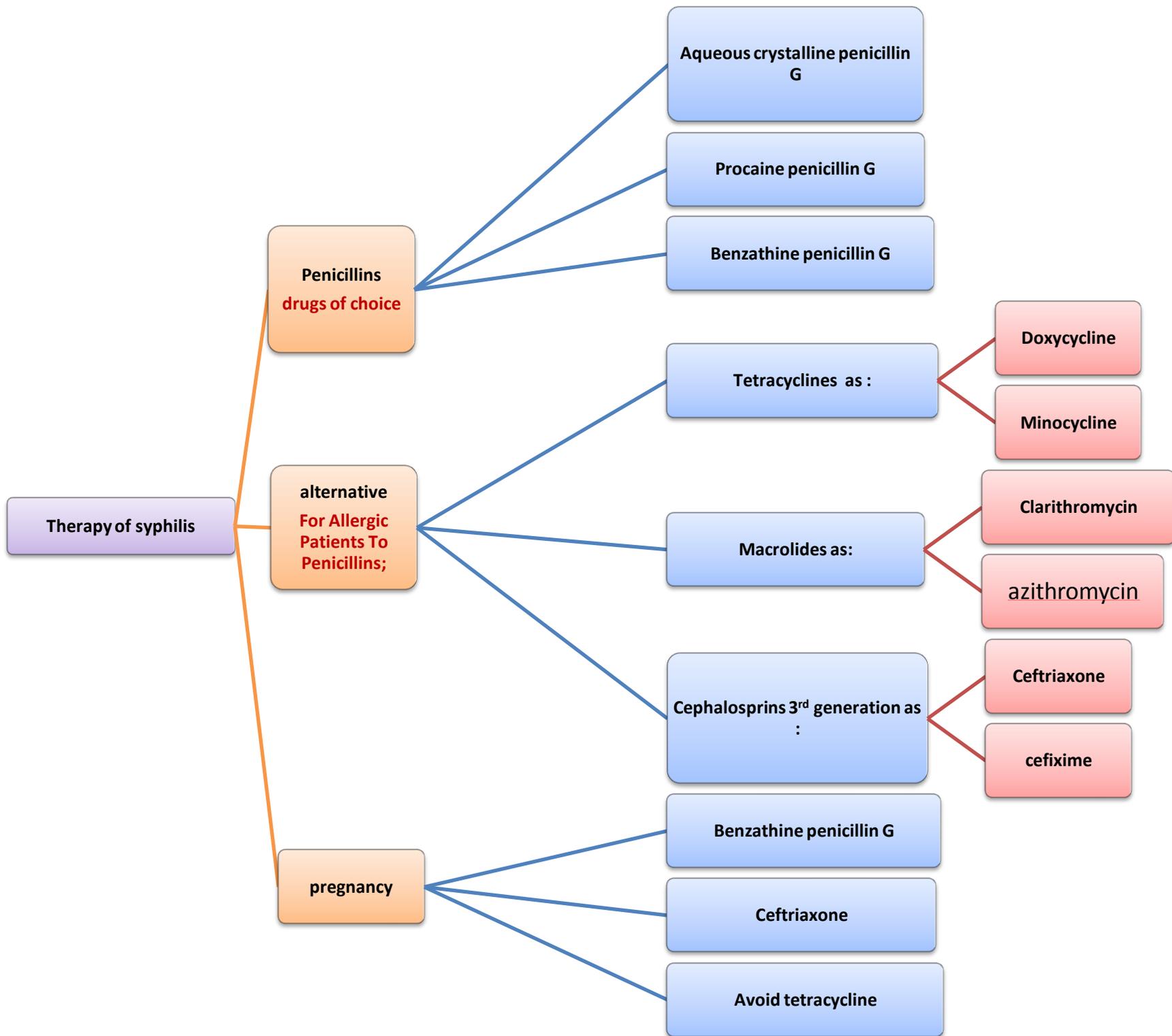


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For explanation ,  
Notes & MCQ ..  
see the slides of  
the team ( :

The contents of the file are :

- ✓ 2 mind maps give a general idea about the lecture`s contents
- ✓ Table summarizes and highlights **the imp. Points** in the lecture



# Gonorrhea Therapy

complicated infection  
(ex. conjunctivitis in new born)

Silver nitrate

Erythromycin  
(ointment)

uncomplicated infection

1st line Rx

cephalosporines

ceftriaxone  
(IMI)

cefixime  
(orally)

2nd line Rx  
(in case of allergy from 1st  
line Rx)

fluroquinolones

Ciprofloxacin

Ofloxacin

Levofloxacin

Spectinomycin  
(IMI)

	syphilis				Gonorrhea (Uncomplicated infection)	
	1 <sup>st</sup> choice	In case of penicillin Allergy			1 <sup>st</sup> line of treatment	In case of 1 <sup>st</sup> line Allergy
Drugs	<b>Penicillin (<math>\beta</math>-lactam antibiotics) :</b> <ul style="list-style-type: none"> <li>penicillin G</li> <li>benzathine Penicillin</li> <li>Procaine Penicillin</li> </ul>	<b>TETRACYCLINES :</b> <ul style="list-style-type: none"> <li>doxycycline</li> <li>minocycline</li> </ul>	<b>MACROLIDES :</b> <ul style="list-style-type: none"> <li>Clarithromycin</li> <li>azithromycin</li> </ul>	<b>Cephalosporins 3<sup>rd</sup> generation (<math>\beta</math>-lactam antibiotics) :</b> <ul style="list-style-type: none"> <li>cefixime</li> <li>ceftriaxone</li> </ul>	<b>FLUOROQUINOLONES :</b> <ul style="list-style-type: none"> <li>Ciprofloxacin</li> <li>Oflaxcin</li> <li>levofloxacin</li> </ul>	<b>Spectinomycin</b>
MOA	Inhibit <b>synthesis of bacterial wall</b> through inhibition of transpeptidase enzyme.	Inhibit bacterial protein synthesis by <b>binding to 30s</b> bacterial ribosomal subunit.	Inhibit bacterial protein synthesis by <b>binding to 50s</b> bacterial ribosomal subunit.	Inhibit <b>bacterial cell wall</b> synthesis.	Inhibit <b>DNA synthesis</b> by inhibiting DNA gyrase enzyme	Inhibit bacterial protein synthesis by <b>binding to 30s</b> bacterial ribosomal subunit.
PK	<ol style="list-style-type: none"> <li>Acid unstable</li> <li>Penicillinase (<math>\beta</math> lactamase) sensitive.</li> <li><b>Long acting:</b> benzathine &amp; procaine <b>Short acting:</b> penicillin G</li> <li><b>cross BBB :</b> peni. G &amp; procaine</li> </ol>	<ol style="list-style-type: none"> <li>Well absorbed orally .</li> <li>Long acting.</li> <li><b>Not effective for treatment of gonorrhea</b></li> </ol>	<ol style="list-style-type: none"> <li>Don't cross BBB &amp; placenta .</li> </ol>	<ol style="list-style-type: none"> <li>Given IM &amp; Orally</li> </ol>	<ol style="list-style-type: none"> <li>Given orally</li> </ol>	<ol style="list-style-type: none"> <li>Given IM</li> </ol>
ADRs	<ol style="list-style-type: none"> <li><b>Hypersensitivity.</b></li> <li>nephritis.</li> <li>convulsion with high doses or renal failure.</li> </ol>	<ol style="list-style-type: none"> <li><b>effect on calcified tissue &amp; bone deformity</b></li> <li>Gastric upset.</li> <li>hepatotoxicity.</li> <li>phototoxicity.</li> <li>vestibular problem.</li> <li>superinfection.</li> </ol>	<ol style="list-style-type: none"> <li><b>Enzyme inhibitor</b></li> <li>Gastric upset.</li> </ol>	<ol style="list-style-type: none"> <li><b>Thrombophilitis.</b></li> <li>Allergic reaction.</li> <li>Nephritis.</li> <li>Superinfection.</li> <li>Diarrhea .</li> </ol>	<ol style="list-style-type: none"> <li><b>Arthropathy .</b></li> <li>GI upset .</li> <li>Headache ,dizziness.</li> <li>Phototoxicity.</li> </ol>	<ol style="list-style-type: none"> <li>Pain at site of injection.</li> <li>Fever &amp; nausea .</li> <li>Nephrotoxicity (not common )</li> </ol>
Contraindic.	Allergic patient to penicillins	<ol style="list-style-type: none"> <li><b>Children (below 10 yrs)</b></li> <li>Pregnancy</li> <li>Nursing mothers .</li> </ol>			<ol style="list-style-type: none"> <li>Pregnancy .</li> <li>Nursing mothers.</li> <li><b>Children under 18 years.</b></li> </ol>	
<b>Complicated infections :</b> <b>Silver nitrate OR ERYTHROMYCIN</b> <b>( given immediately given up to 1h)</b>						



Cephalosporins 3<sup>rd</sup> generation ... (The same)

