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1 BACKGROUND

1.1 About this document

Under the Policy Directive 2020_024 an Accredited Registered Nurse (ARN) employed in a NSW Publicly Funded Sexual Health Services may supply, and/or administer sexually transmissible infection therapies to eligible patients and sexual partners.

MEDICATION PROTOCOLS IN THIS DOCUMENT MUST EXCLUSIVELY BE USED WITH NSW Health Policy Directive RN Supply and Administration of STI Therapies in Publicly Funded Sexual Health Services BY AN ACCREDITED REGISTERED NURSE

1.2 Issue and approval of Medication Protocols

Issue date: 14th DECEMBER 2022

Dr Nathan Ryder

Head, NSW STIPU Programs Unit

Signature:

Bruce Battye

NSW Ministry of Health, Acting Chief Pharmacist

(Pharmaceutical regulatory approval only)

Signature:

Professor David Lewis

Chair of the NSW Health PFSHS Directors group

Signature:



1.3 Key definitions

Accredited Registered Nurse (ARN)	A registered nurse who has successfully completed requisite education and training to supply and administer sexually transmissible infection therapies and accredited under the NSW Health Sexual Health Services Standard Operating Procedures Manual.
Administer	The decision to give a medication, giving the medication (such as by mouth, topically or by injection) then documenting that the medication has been given
Amsel's criteria (modified)	In the presence of thin white/grey homogenous discharge a diagnosis is made if 2 of following criteria are present: 1. Vaginal fluid raised pH (pH>4.5) using pH paper 2. Genital malodour or Amine test where available 3. Clue cells on high vaginal gram stain as reported by laboratory or visualised during onsite microscopy (most specific).
Contact tracing	The process of identifying relevant contacts of a person with an infectious disease for the purpose of partner notification.
Diagnostic criteria	An accepted set of standards to determine diagnosis at point of care.
Employed within Publicly Funded Sexual Health Service (PFSHS)	Registered Nurses currently employed within public sexual health service in NSW (including Justice Health sexual heath registered nurses).
Genital site	Encompasses urethral, cervical or vaginal sites of infection.
Long-acting reversible contraception (LARC)	a group of contraception methods that provide very effective, long acting and reversible contraception
Medical record	Patient's medical record within PFSHS. This can be paper based, electronic or a hybrid.
Must	Indicates a mandatory action requiring compliance.
Non-gonococcal urethritis (NGU)	A condition of the penile urethra. NGU is confirmed by examination of a Gram stained



Partner notification Presumptive treatment	smear of urethral discharge with greater than 4 polymorphonuclear cells per high power microscopic field (> 4 PMN/HPM) and no Gram-negative diplococci present. When partners are informed of their possible exposure to an STI and provided information on how to access testing and treatment. Refers to the administration of antibiotics when the diagnosis is considered likely, but before the results of confirmatory tests are available. Also referred to as epidemiological treatment.
Publicly Funded Sexual Health Service (PFSHS)	Publicly funded sexual health services are available across NSW and provide a range of medical, counselling and health promotion services to those most at risk of HIV/AIDS and sexually transmissible infections on site or via community outreach services.
Retest Should	Undertaken to detect reinfection. Indicates obligation, duty or correctness of an action to be followed unless there are sound reasons for taking a different course of action.
Supply	In this document to 'supply' means the provision of a medication for take-home use.
Syndromic management	Identification of consistent groups of symptoms and easily recognised signs leading to the provision of treatment that will deal with the majority or most serious organisms responsible for producing the identified syndrome.
Syndromic management of penile urethritis	Approach to clinical care where no onsite microscopy is available, and patient reports urethral discharge or dysuria. Note gonorrhoea is likely if copious and purulent urethral discharge is noted on examination or symptoms have rapidly escalated in severity over days.
Test of Cure	Assessing for treatment failure, i.e. persistence of infection despite treatment.



Uncomplicated	Status of condition; symptoms present for less than 7 days including: urethral discharge, vaginal discharge, genital itch or dysuria, and no additional symptoms such as: intermenstrual bleeding (IMB), post-coital bleeding (PCB), lower pelvic pain, dyspareunia, fever, testicular pain, breaks in skin or ulceration, anal discharge or bleeding, anal pain or tenesmus.
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1.4 Updating of Medication Protocols

Medication Protocols under NSW Health Policy Directive: RN Supply and Administration of STI Therapies in Publicly Funded Sexual Health Services align with the Australian STI management guidelines for use in primary care and/or eTG complete. Therapies authorised by the NSW Secretary of Health for Accredited Registered Nurses to supply and/or administer will require a biannual review and updates will be approved by the Head, NSW STI Programs Unit (STIPU), NSW Ministry of Health, Chief Pharmacist and Chair of the NSW Health PFSHS Directors group. https://stipu.nsw.gov.au/sop/medicationprotocols/

PFSHS will be notified immediately of changes to the protocol.



2. Medication Protocols summary table

STI Diagnosis or	Antimicrobial treatment	Site or Stage	Use in	Protoco
indication for use			Sexual Contacts	'
Chlamydia	Doxycycline 100 mg 12-hourly for 7 days	Pharyngeal	Yes	3.4
	orally	Genital, Rectal	(non-pregnant only)	
	Azithromycin 1 g as a single dose, orally	Pharyngeal	Yes	<u>3.1</u>
		Genital		<u>3.2</u>
NGU	Doxycycline 100 mg twice daily for 7 days, orally	Urethral	No	3.4
	Azithromycin 1 g as a single dose, orally	-	No	3.1
Gonorrhoea	Ceftriaxone 500 mg as a single dose, by intramuscular injection plus Azithromycin 2 g as a single dose, orally	Pharyngeal	No	3.3
	Ceftriaxone 500 mg as a single dose, by intramuscular injection plus Azithromycin 1 g as a single dose, orally	Genital, Rectal	Yes	3.3
Trichomoniasis Bacterial Vaginosis	Metronidazole 400 mg twice daily for 7 days, orally Metronidazole 2 g as a single dose, orally	Genital	Trichomoniasis only	3.5 3.6
Syphilis	Benzathine benzylpenicillin 2.4 MU (1.8 g) IMI, given as 2 injections containing 1.2 MU (0.9 g)	Primary Secondary early latent	Yes	3.7
	Benzathine benzylpenicillin 2.4 MU (1.8 g) IMI, given as 2 injections containing 1.2 MU (0.9 g) weekly for 3 weeks	Late latent/unknown duration	No	



HIV non-Occupational	Tenofovir disoproxil* /emtricitabine	N/A	N/A	3.8
Post-Exposure	300mg/200mg, daily for 28 days, orally			
Prophylaxis				
HIV Pre-exposure	Tenofovir disoproxil* /emtricitabine	N/A	N/A	3.9
Prophylaxis for people	300mg/200mg, daily for 90 days, orally			
	Two tablets of Tenofovir disoproxil* /			
	emtricitabine 300mg/200mg 2 – 24 hours			
	before potential sexual exposure to HIV,			
	then Tenofovir disoproxil* / emtricitabine			
	300mg/200mg every 24 hours until 48 hours			
	after most recent potential sexual exposure			
	to HIV			
Herpes Simplex Virus	Valaciclovir 500mg, twice a day for 5 days,	Initial episode	No	3.10
	orally			
	Valaciclovir 500mg, twice a day for 3 days,	Recurrence		
	orally			
Candidal vulvovaginitis	Fluconazole 150 mg, as a single dose,	N/A	No	3.11
	orally			
Emergency	Levonorgestrel 1.5 mg, as a single dose,	N/A	N/A	3.12
contraception	orally			



3. Medication Protocols

3.1. Azithromycin supply and administration for treatment of uncomplicated genital or pharyngeal chlamydia and/or treatment of chlamydia in sexual contacts

For the second			
Indications	Second line antibiotic treatment of laboratory confirmed		
	pharyngeal or genital chlamydia		
	2. Presumptive antibiotic treatment of sexual contacts of		
	genital, rectal or pharyngeal chlamydia of up to with exposure		
Davis	within past 6 months		
Drug	Azithromycin, anti-infective macrolide		
Presentation	Tablets: 500 mg		
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist. Hypersensitivity or allergy to azithromycin, erythromycin, any other macrolide antibiotic, or to any of the inactive ingredients in the product information (PI). Concomitant medications known to prolong the QT interval (see MIMS online for more details). 		
Pregnancy Category	B1; Recommended treatment in pregnancy		
Dose and frequency	Azithromycin 1 g as a single dose, orally		
Supply and	Oral		
	- Oran		
administration	Best taken with food		
administration			
administration	 Best taken with food If taking antacids, take them at least one hour before 		
administration	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. 		
administration	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. May be administered within a service or the medication may		
administration	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. 		
Drug Interactions*	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside		
	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service		
	 Best taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service Antacids - not to be taken concurrently (see Supply 		



	 Digoxin Medications known to prolong the QT interval e.g. some antiarrhythmics (amiodarone, disopyramide,
	sotalol), some antipsychotics (amisulpride, droperidol, haloperidol, ziprasidone), some antidepressants (citalopram, escitalopram, fluoxetine, tricyclics) and some anti-infectives and antineoplastics.
	*See AMH Macrolides for more detailed information
Adverse Effects relevant to STI treatment	Common: nausea, vomiting, diarrhoea, abdominal pain and cramps, Candida spp. infections
	Infrequent: rash, headache
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing Implications	Rule out symptoms indicating pelvic inflammatory disease (PID) (fever, chills, nausea and vomiting, pelvic pain, dyspareunia, intermenstrual or post-coital bleeding).
	Rule out symptoms indicating epididymitis (scrotal pain or swelling).
Patient Education	Advise the patient to avoid sex (oral, vaginal or anal sex) for 7 days after commencement of treatment and until both they and their current partner/s have been treated.
	Seek medical advice if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing.
	Advise patient that re-testing for genital chlamydia to detect re-infection is recommended at 3 months .
	In pregnant women, test of cure is recommended 4 weeks post completion of the treatment.
	Consider providing patient with relevant Consumer Medicine Information and/or chlamydia factsheet
Operational Transitions	https://stipu.nsw.gov.au/resources/patient-resources/.
Contact Tracing	Australian Contact Tracing Guidelines: Chlamydia
	Australian STI Management Guidelines for use in Primary Care: Chlamydia – Contact Tracing



	Patient delivered partner therapy should be considered for
	heterosexual index patients whose partners are unlikely to
	seek chlamydia testing or treatment, or with repeat infections
	whose partners have not been treated see 3.2
Related	Medication Administration/Supply Checklist
Documents and	
References	Australian STI Management Guidelines for use in Primary
	Care: Chlamydia
	Australian Contact Tracing Guidelines: Chlamydia
	MIMS Online October 2022 https://www.mimsonline.com.au/
	MINIO OTIMIC COLOBER 2022 Mapo.// WWW.THITTOOTIMIC.COTT.cdd/
	Australian Medicines Handbook July 2022
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-
	infectives/antibacterials/macrolides/azithromycin
	Consumer Medicine Information
	http://www.tga.gov.au/consumer-medicines-information-cmi

Local Nurse Protocol Authorisation:

Date approved by	_LHD Drug and Therapeutics Committee:
Review Date:	



3.2. Azithromycin supply for treatment of uncomplicated chlamydia in recent heterosexual contacts of pharyngeal or genital chlamydia supplied through patient delivered partner therapy (PDPT)

L. P. d'.	Date of the confidence of the		
Indication	Presumptive antibiotic treatment of sexual contacts within the past 6 months of heterosexual patients with pharyngeal or genital chlamydia; to be supplied through patient delivered partner therapy.		
Drug	Azithromycin; anti-infective macrolide		
Presentation	Tablets: 500 mg		
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	Use of patient delivered partner therapy is not recommended in the following patients: • Those who identify as men who have sex with men (MSM) • Those who have been concurrently diagnosed with another STI • Those who have experienced recent sexual assault Patient delivered partner therapy is not recommended if the patient reports the following conditions in their partner/s: • Known hypersensitivity or allergy to azithromycin, erythromycin, any other macrolide or ketolide antibiotic, or to any of the inactive ingredients in the product • Concomitant medications known to prolong the QT interval (see Drug Interactions below) • Partners with symptoms of PID or epididymo-orchitis • Partners who may have rectal chlamydia infection		
Pregnancy Category	B1; Recommended treatment in pregnancy		
Dose and frequency	Azithromycin 1 g as a single dose, orally		
Supply and administration	 Administration: Oral May be taken with food If taking antacids, take them at least one hour before or two hours after azithromycin If vomiting occurs within 2 hours of administration, then retreatment is recommended. 		



	 Supply: Supply in pre-labelled Patient Delivered Therapy packs Packs must include hard copy patient and partner information sheets. https://playsafe.health.nsw.gov.au/sti-treatment/chlamydia-treatment-partner/ 	
Drug Interactions*	 Antacids - not to be taken concurrently (see Supply and administration above) Cyclosporin Warfarin Digoxin Medications known to prolong the QT interval e.g. some antiarrhythmics (amiodarone, disopyramide, sotalol), some antipsychotics (amisulpride, droperidol, haloperidol, ziprasidone), some antidepressants (citalopram, escitalopram, fluoxetine, tricyclics) and some anti-infectives and antineoplastics. 	
	*See AMH Macrolides for more detailed information	
Adverse Effects Relevant to STI Treatment	Common: nausea, vomiting, diarrhoea, abdominal pain and cramps, Candida spp. infections Infrequent: rash, headache Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)	
Nursing Implications	Purpose of PDPT is to eliminate chlamydia from recent sexual contacts who are unable or unlikely to seek clinical services in a timely manner to prevent re infection of the index case and reduce further transmission. Chlamydia is often asymptomatic including among sexual contacts. Refer to NSW Sexual Health Standard Operating Procedure - PDPT	
Patient Education	Provide the patient with PDPT Patient Infosheet and the PDPT Partner Infosheet advising patient to pass it on to the partner with the medication. Review with patient all relevant information related to medication administration and common medication adverse effects to pass on to partner.	



	Encourage the partner to seek medical assistance directly (either by making a recommendation to the patient present or attempting to contact the partner by telephone).
	Advise the patient to avoid sex (oral, vaginal, or anal sex) for 7 days after both they and their current partner/s have been treated for chlamydia.
	Advise the patient that partners who have been provided PDPT for treatment of presumptive chlamydia should seek testing for other STIs.
Contact Tracing	Partners who are supplied treatment for chlamydia by patient delivered partner therapy should inform any additional sexual contacts to seek testing for chlamydia and other STIs.
Documentation	 A notation that the medication was given to the patient to give to the partner/s (include number of partners that medication was provided for) The name and dose of medication Quantity of PDPT medication packs supplied Date of supply First and last name of each partner the medication is intended for Partner/s address or mobile number or email address. This information can recorded in the medication section of the patient's medication was provided and linked through the patient's medical record number.
Related Documents and References	https://playsafe.health.nsw.gov.au/treatment/pdpt PDPT Patient Infosheet PDPT Partner Infosheet
	Australian STI Management Guidelines for use in Primary Care: Chlamydia December 2021
	MIMS Online October 2022 https://www.mimsonline.com.au/
	Australian Medicines Handbook July 2022 https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-infectives/antibacterials/macrolides/azithromycin



	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi	
Local Nurse Protocol Authorisation:		
Date approved by _	LHD Drug and Therapeutics Committee:	
Review Date:		



3.3. Ceftriaxone administration and azithromycin supply and administration for treatment of uncomplicated gonorrhoea, syndromic management of uncomplicated penile urethritis where gonorrhoea likely and/or treatment of gonorrhoea in recent sexual contacts

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Indications Drugs	Antibiotic treatment of a patient with uncomplicated pharyngeal, genital or rectal gonococcal infection. Antibiotic treatment of a patient as syndromic management of uncomplicated urethritis where gonorrhoea is likely and onsite microscopy is not available Presumptive antibiotic treatment of a patient presenting as a sexual contact of a person with a gonococcal infection in the past 8 weeks. Ceftriaxone, a broad spectrum cephalosporin antibiotic	
	PLUS	
		n anti-infective macrolide antibiotic
Presentation	Ceftriaxone	Powder for injection: 500 mg, 1 g per vial
	Azithromycin	Tablets: 500 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	Ceftriaxone	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist. Known allergy to the cephalosporin class of antibiotics or a major allergy to penicillin (anaphylaxis, angioneurotic oedema, urticaria). History of antibiotic-associated pseudomembranous colitis. History of gastrointestinal disease (particularly colitis) or severe renal impairment (e.g. dialysis). Lignocaine should not be used as a diluent for intramuscular injection in patients who are hypersensitive to lignocaine.
	Azithromycin	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist. Hypersensitivity or allergy to azithromycin, erythromycin, any other



		T
		 macrolide antibiotic, or to any of the inactive ingredients in the product information (PI). Concomitant medications known to prolong the QT interval (see Drug Interactions below).
Pregnancy Category	Ceftriaxone	B1; Recommended treatment in pregnancy
	Azithromycin	B1; Recommended treatment in pregnancy
Dose and frequency Genital or rectal	Ceftriaxone	Ceftriaxone 500 mg as a single dose, by intramuscular injection plus
	Azithromycin	Azithromycin 1 g as a single dose, orally
Dose and frequency Pharyngeal	Ceftriaxone	Ceftriaxone 500 mg as a single dose, by intramuscular injection plus
	Azithromycin	Azithromycin 2 g as a single dose, orally
Supply and administration and	Ceftriaxone	Deep intramuscular injection into ventrogluteal muscle (1st line choice – see references) in lignocaine solution 1% to reduce pain at the injection site. Dissolve the contents of 500 mg vial in 2 mL of lignocaine 1% solution If using a 1 gram vial of ceftriaxone for IM injection, add 3.5 mL of 1% lignocaine and administer 2 mL of the reconstituted solution. Product is for single use in one patient only. Discard any residue. A second person should check the preparation and administration of injectable medication wherever practicable.
	Azithromycin	Oral; may be taken with food; If taking antacids, take them at least one hour before or two hours after azithromycin



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		May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service.
Drug Interactions*	Ceftriaxone	No drug interactions of particular concern
		*See AMH Cephalosporins for more detailed
		information
	Azithromycin	 Antacids - not to be taken concurrently (see Supply and administration above) Cyclosporin Warfarin Digoxin Medications known to prolong the QT interval e.g. some antiarrhythmics (amiodarone, disopyramide, sotalol), some antipsychotics (amisulpride, droperidol, haloperidol, ziprasidone), some antidepressants (citalopram, escitalopram, fluoxetine, tricyclics) and some anti-infectives and antineoplastics.
		*See <u>AMH Macrolides</u> for more detailed information
Adverse Effects relevant to STI treatment	Ceftriaxone	Common or infrequent: diarrhoea, nausea, vomiting, pain and inflammation at injection site, rash, hypersensitivity/allergy Rare: Pseudomembranous colitis
	Azithromycin	Common: nausea, vomiting, diarrhoea,
		abdominal pain and cramps
		Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing Implications	Rule out symptoms indicating PID (complaints of fever, chills, nausea, and vomiting, bilateral lower pelvic pain, intermenstrual or post-coital bleeding). Rule out symptoms indicating epididymo-orchitis (complaints of scrotal pain or swelling). Rule out symptoms indicating proctitis if rectal infection (complaints of frequent urge to defecate, rectal pain, tenesmus, itching, rectal discharge or bleeding).	



		om all patients at the infected site(s) eria gonorrhoeae results prior to	
	Procedure outlined in the	NSW Sexual Health Services	
		edures – Clinical Management	
	Individual Infections	-	
		ent, undertake STI testing per	
	Standard Operating Proce	tlined in the NSW Sexual Health	
Patient Education		d sex (oral, vaginal or anal sex) for 7	
	days after both they and their current partner/s have been treated for gonorrhoea.		
	Seek medical advice if sig as rash, swelling, difficulty	ns of an allergic reaction (rare) such breathing.	
	Follow up is advised if even	antama da na nat ranglya within 7	
	days	nptoms do no not resolve within 7	
	·	e retesting or Test of Cure (TOC) for	
	gonorrhoea as required by procedure.	/ NSW Sexual Health SOP or local	
	procedure.		
	Site	Test of Cure (TOC)	
	Pharyngeal	2-4 weeks post treatment	
	Rectal	2-4 weeks post treatment	
	Endocervical or vulvovaginal	2-4 weeks post treatment	
	Penile urethral	Not recommended	
	Retest 3 months after exposure to go	norrhoea	
	For syndromic manageme	ent of urethritis where gonorrhoea	
	antibiotic treatmentTOC/Re-testing adv	may need to return for additional once aetiology confirmed. vice will depend on confirmed	
	aetiology.		
	Consider providing patient		

https://stipu.nsw.gov.au/resources/patient-resources/

and a gonorrhoea factsheet



Contact Tracing	Australian STI Management Guidelines for use in Primary Care December 2021: Gonorrhoea – See Contact Tracing
	Australian Contact Tracing Guidelines: Gonorrhoea
	Australian STI Management Guidelines for use in Primary Care December 2021: <u>Urethritis - penile</u> -See Contact Tracing
	Australian Contact Tracing Guidelines: Non-Gonococcal Urethritis
Related Documents	Medication Supply/Administration Checklist
and References	Australian STI Management Guidelines for use in Primary Care December 2021: Gonorrhoea
	MIMS Online October 2022 https://www.mimsonline.com.au/
	Australian Medicines Handbook, July 2022 https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-infectives/antibacterials/macrolides/azithromycin
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti- infectives/antibacterials/cephalosporins/ceftriaxone
	Isseven, Seda Dere and Tulay Sagkal Midilli. "A Comparison of the Dorsogluteal and Ventrogluteal Sites Regarding Patients' Levels of Pain Intensity and Satisfaction following Intramuscular Injection." (2020). https://www.semanticscholar.org/paper/A-Comparison-of-the-Dorsogluteal-and-Ventrogluteal-Isseven-Midilli/6de74aaf44d3b80c09d673260370febcf62d4bb6
	Şimşek, Aynur. (2020). Using the ventrogluteal site for intramuscular injection. The Anatolian Journal of Family Medicine. 10.5505/anatoljfm.2020.84755. https://pubmed.ncbi.nlm.nih.gov/15871375/
	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi



Local Nurse Protocol Authorisation:		
Date approved by	LHD Drug and Therapeutics Committee:	
Review Date:		



3.4. Doxycycline supply for treatment of uncomplicated chlamydia in non-pregnant/non-lactating patients and/or treatment of non-gonococcal urethritis (NGU) and/or treatment of non-pregnant/non-lactating patients presenting as a sexual contacts of a patient with chlamydia.

Indication	 Antibiotic treatment of uncomplicated pharyngeal, genital and ano-genital rectal chlamydia in non-pregnant/non-lactating patients. Antibiotic treatment of uncomplicated NGU confirmed by microscopy or syndromic management where onsite microscopy is not available and gonorrhoea unlikely. Presumptive antibiotic treatment of non-pregnant /non-lactating patients presenting as a sexual contacts of a patient with chlamydia within 6 months. Doxycycline; anti-infective tetracycline
	•
Presentation	Tablets: 100 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration Pregnancy Category	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Known hypersensitivity to tetracyclines Concurrent use of oral retinoids Concurrent use of Vitamin A Use in pregnancy or lactation History of increased intracranial hypertension History of photosensitivity Concurrent use of antacids and iron preparations D; Drugs which have caused, are suspected to have caused or may be expected to cause, an increased incidence of human fetal malformations or irreversible damage.
Dose and frequency	Doxycycline 100 mg twice daily for 7 days, orally
Supply and administration	 Oral Best taken after food or milk Take with plenty of water (at least 100 mL) and remain upright for an hour after doxycycline
Drug Interactions*	 Antacids and iron preparations - not to be taken concurrently Warfarin Oral contraceptives (see Nursing Implications below)



Adverse Effects Relevant to STI Treatment	 Penicillin Anticonvulsants (phenytoin, carbamazepine, barbiturates) - see Vitamin A and oral retinoids (see Contraindications above) *See AMH Tetracyclines for more detailed information Common: nausea, vomiting, diarrhoea, epigastric burning; tooth discolouration, enamel dysplasia; photosensitivity (depends on tetracycline, dose and degree of sun exposure) Infrequent: rash, stomatitis, fungal overgrowth Rare: hypersensitivity (e.g. anaphylaxis, severe skin
	reaction)
Nursing Implications	 For rectal chlamydia: Rule out symptoms indicating proctitis (complaints of the frequent urge to defecate, rectal pain, tenesmus, itching, rectal discharge or bleeding). Lymphogranuloma venereum (LGV) is a rare condition in Australia; an increase has been observed in MSM. It usually presents with symptoms of severe proctitis as above.
	 Rule out symptoms indicating epididymo-orchitis (complaints of scrotal pain or swelling). For syndromic management, undertake STI testing per standard of practice as outlined in the NSW Sexual Health Standards Operating Procedures – Syndromes: Urethritis. Non-liver enzyme-inducing antibiotics such as tetracyclines do not reduce the effectiveness of CHCs [Combined Hormonal Contraceptives] and additional contraceptive protection is no longer advised for concurrent use despite the warnings in the Product Information. For anyone who can become pregnant, confirm and document patient is using a reliable method of birth control (e.g. hormonal, copper intrauterine device, consistent condom use in place) or undertake and record a negative urine hCG pregnancy test.



Contact Tracing	Australian STI Management Guidelines for use in Primary Care: Chlamydia –See Contact Tracing Australian STI Management Guidelines for use in Primary Care December 2021: Urethritis - penile -See Contact Tracing
	Consider providing patient with relevant Consumer Medicine Information and a chlamydia or NGU (Urethritis) factsheet https://stipu.nsw.gov.au/resources/patient-resources/
	Re-testing for NGU advice will depend on confirmed aetiology.
	For syndromic management of NGU, advise patient they may need to return for additional antibiotic treatment once aetiology confirmed.
	Advise patient to return for medical review if symptoms persist or recur after completing treatment.
	For NGU
	Advise patient re-testing for chlamydia, if detected, is recommended at 3 months to exclude re-infection.
	Avoid alcohol as can decrease the serum levels of doxycycline in the blood.
	Avoid sun exposure especially between the hours of 10am to 3pm. If sun exposure wear protective clothing and sunscreen SPF+30.
	Report any skin reactions if sun exposure as doxycycline can cause skin to be more sensitive to sun.
	Seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing.
Patient Education	Advise the patient to avoid sex (oral, vaginal or anal sex) for 7 days after commencement of treatment for both themselves and their current partner/s have been treated.



	Australian Contact Tracing Guidelines: Chlamydia
	Australian Contact Tracing Guidelines: Non-Gonococcal Urethritis
Related Documents and References	Medication Supply/Administration Checklist
	MIMS Online October 2022 https://www.mimsonline.com.au/
	Titips://www.mimorimic.com.ad/
	Australian STI Management Guidelines for use in Primary Care December 2021: <u>Urethritis - penile</u>
	Australian STI Management Guidelines for use in Primary Care: Chlamydia
	Australian Contact Tracing Guidelines: Non-Gonococcal Urethritis
	Australian Contact Tracing Guidelines: Chlamydia
	Australian Medicines Handbook, July 2022 https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-infectives/antibacterials/tetracyclines/doxycycline
	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi

Local Nurse Protocol Authorisation:

Date approved by	_LHD Drug and Therapeutics Committee:
Review Date:	



3.5. Metronidazole supply and administration for treatment of trichomoniasis and/or treatment of trichomoniasis in recent sexual contacts

Indications	 Antimicrobial for treatment of trichomoniasis (by NAAT or microscopy) Antimicrobial for treatment of suspected trichomoniasis in recent sexual contacts (past 30 days) of patients with trichomoniasis
Drug	Metronidazole; nitroimidazole antibiotic
Presentation	Tablets: 400 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Hypersensitivity or allergy to imidazoles or to any of the inactive ingredients in the product Unable to avoid concurrent alcohol for 24 hours after treatment. Current or history of Blood dyscrasias/disorders Active organic CNS disease Check for liver disease: metabolites may accumulate in severe hepatic impairment – may need to reduce dose; MO consult Lactation – oral metronidazole may affect taste of breast milk, consider intra vaginal treatment; MO consult required.
Pregnancy	B2 Single-dose treatment with metronidazole recommended
Category	for all symptomatic pregnant patients
	Dose and frequency
Recommended	Metronidazole 400 mg twice daily for 7 days, orally
Alternative	Metronidazole 2 g as a single dose, orally
Supply and administration	 Oral Swallow tablets whole with a glass of water Take with or after food Avoid alcohol during treatment and for 24 hours after finishing treatment May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service.



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Drug Interactions*	 Alcohol - during treatment and for 24 hours afterwards (see Nursing Implications below) Disulfiram (Antabuse®) - do not use metronidazole within 2 weeks of disulfiram. Warfarin or other medicines used to prevent blood clots Lithium Phenytoin Phenobarbitone Cimetidine Cyclosporin Some anticancer drugs (e.g. carmustine, cyclophosphamide, 5-fluorouracil, busulfan)
	*See AMH Metronidazole for more detailed information
Adverse Effects Relevant to STI Treatment	Common: nausea, anorexia, abdominal pain, vomiting, diarrhoea, metallic taste, CNS effects (eg dizziness, headache)
	Infrequent: furry tongue, glossitis, stomatitis, paraesthesia
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing Implications	Alternative treatment should only be used at patient request or if an assessment is made that recommended dose and frequency may lead to adherence difficulties
	If TV detected on urine or high vaginal samples results must be confirmed by NAAT before initiating treatment.
	It is recommended that all cases of <i>Trichomonas vaginalis</i> infection in pregnant people are discussed with a medical officer. Whilst treatment for symptomatic trichomoniasis in pregnancy is recommended if symptoms present (malodourous vaginal discharge – often profuse and frothy; vaginal itch or soreness), this may not be the case for asymptomatic pregnant people.
Patient Education	Advise the patient to avoid sex (oral, vaginal or anal sex) for 7 days after both they and their current partner/s have been treated.
	Seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing.



	Discuss interaction with alcohol. Advise to avoid alcohol including any medication with alcohol (i.e. cough syrup) on the day of treatment and for 24 hours after taking single dose treatment. Consider providing patient with relevant Consumer Medicine Information and a trichomoniasis factsheet https://stipu.nsw.gov.au/resources/patient-resources/
Contact Tracing	Australian STI Management Guidelines for use in Primary
Jointage Trading	Care: Trichomoniasis –See Contact Tracing
	Care. Thenomoniasis —See Contact Tracing
	Australian Contact Tracing Guidelines: Trichomoniasis
Related Documents	Medication Supply/Administration Checklist
and References	
	MIMS Online October 2022 https://www.mimsonline.com.au/
	WINNO OTHER COLODER 2022 TREPS://WWW.HIII/ISOTHERC.SOTH.dd/
	Australian STI Management Guidelines for use in Primary Care December 2021: <u>Trichomonas</u>
	Australian Contact Tracing Guidelines: Trichomoniasis
	Australian Medicines Handbook, July 2022
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-
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	infectives/antibacterials/other-antibacterials/metronidazole
	Consumer Medicine Information
	http://www.tga.gov.au/consumer-medicines-information-cmi

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3.6. Metronidazole supply for treatment of bacterial vaginosis

Drug Presentation	 Antimicrobial for treatment of bacterial vaginosis per modified Amsel's criteria Antimicrobial for treatment of bacterial vaginosis in pregnant women if symptoms present. Antimicrobial treatment for women with symptoms undergoing termination of pregnancy Metronidazole; nitroimidazole antibiotic Tablets: 200mg and 400 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Hypersensitivity or allergy to imidazoles or to any of the inactive ingredients in the product Unable to avoid concurrent alcohol for 24 hours after treatment. Current or history of blood dyscrasias/disorders Active organic CNS disease Check for liver disease: metabolites may accumulate in severe hepatic impairment – may need to reduce dose; MO consult Lactation – oral metronidazole may affect taste of breast milk, consider intra vaginal treatment; MO consult required.
Pregnancy Category	B2 Treatment is recommended for all pregnant women with symptoms
Dose and frequency	
Recommended	Metronidazole 400 mg twice daily for 7 days, orally
Alternative	Metronidazole 2 g as a single dose, orally
Supply and administration	 Orally Swallow tablets whole with a glass of water Take with or after food Avoid alcohol during treatment and for 24 hours after finishing treatment
Drug Interactions	 Alcohol - during treatment and for 24 hours afterwards (see Patient Education) Disulfiram (Antabuse®) - do not use metronidazole within 2 weeks of disulfiram. Warfarin or other medicines used to prevent blood clots



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	LithiumPhenytoin
	Phenobarbitone
	Cimetidine
	Cyclosporin
	 Some anticancer drugs (e.g. carmustine,
	cyclophosphamide, 5-fluorouracil, busulfan)
Adverse Effects Relevant to STI Treatment	Common: nausea, anorexia, abdominal pain, vomiting, diarrhoea, metallic taste, CNS effects (eg dizziness, headache)
	Infrequent: furry tongue, glossitis, stomatitis, paraesthesia
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing	Alternative dose and frequency should only be used at
Implications	patient request or if an assessment is made that
	recommended dose and frequency may lead to adherence difficulties
	For detailed information around sampling/laboratory procedures refer to NSW Sexual Health Standard of Practice Manual Section Laboratory Procedures and HIV and STI testing. Amsel's criteria is outlined in definition section of document.
	Bacterial vaginosis is associated with increased risk of spontaneous abortion, premature labour and PID.
	Rule out symptoms indicating PID (complaints of fever, chills, nausea and vomiting, bilateral lower pelvic pain, IMB or PCB).
	In symptomatic pregnant women, if patient presents with symptoms beyond usual BV presentation described then seek consultation with MO.
Patient Education	Advise patient to seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing.
	Discuss factors that can disrupt normal vaginal flora such as douching as this can lead to replacement with high



	concentrations of anaerobic bacteria leading to bacteria vaginosis (BV).
	Discuss increased risk of candida with use of medication. Advise patient to follow up if sore mouth, white mouth or tongue develops while taking or soon after stopping medication. Also if vaginal itching or discharge develops.
	Discuss interaction with alcohol. Advise to avoid alcohol including any medication with alcohol (i.e. cough syrup) on the day of treatment and for 24 hours after taking single dose treatment.
	Consider providing patient with relevant
	Consumer Medicine Information
	and a bacterial vaginosis factsheet
	https://stipu.nsw.gov.au/resources/patient-resources/
Contact Tracing	Not required.
	Assess current female sexual partners as BV is common in
	female sex partners
Related Documents and References	Medication Supply/Administration Checklist
	MIMS Online October 2022
	https://www.mimsonline.com.au/
	Australian STI Management Guidelines for use in Primary Care December 2021: Bacterial vaginosis
	Care December 2021. <u>Bacterial Vaginosis</u>
	Australian Medicines Handbook, July 2022
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-
	infectives/antibacterials/other-antibacterials/metronidazole
	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi
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3.7. Benzathine benzylpenicillin supply for treatment of primary, secondary and early latent syphilis and sexual contacts of early or unknown duration syphilis

Indication	 Antimicrobial for treatment of primary, secondary, or early latent syphilis diagnosed and documented in the patient's medical record Antimicrobial for treatment of late latent or unknown duration syphilis diagnosed and documented in the patient's medical record Presumptive antibiotic treatment of patients* presenting as a sexual contact of early or unknown syphilis stage. *Patient presenting not as contacts but only with signs and symptoms suspected to be infectious syphilis must be discussed with a medical officer and treated via a medical officer drug order.
Drug	Benzathine benzylpenicillin tetrahydrate, penicillin antibiotic
Presentation	Benzathine benzylpenicillin 2.4 MU (1.8 g) IMI, Stat, given as 2 injections containing 1.2 MU (0.9 g)
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist (Symptoms of rash or painless sore >7 days are exempt with a confirmed syphilis diagnosis) Previous hypersensitivity or allergic reaction to any of the penicillins History of antibiotic-associated pseudomembranous colitis Pregnancy Signs and symptoms of neurosyphilis: unexplained neurological symptoms or signs including visual changes, tinnitus, deafness, severe headache trouble balancing a loss of coordination incontinence an altered walk
Pregnancy Category	A: Considered to be safe, benzathine benzylpenicillin should be used during pregnancy if clinically indicated
Category	Dose and frequency



Early syphilis (primary, secondary, early latent) and sexual contacts	Benzathine benzylpenicillin 2.4 MU (1.8 g) IMI, Stat, given as 2 injections containing 1.2 MU (0.9 g)
Late syphilis or syphilis of unknown duration (late latent > 2 years)	Benzathine benzylpenicillin 2.4 MU (1.8 g) IMI, given as 2 injections containing 1.2 MU (0.9 g) weekly for 3 weeks
Supply and administration	For anyone who can become pregnant, confirm and document patient is using a reliable method of birth control (e.g. hormonal, copper intrauterine device, consistent condom use in place) or undertake and record a negative urine hCG pregnancy test. Because of the high concentration of suspended material in this product, the needle may be blocked if the injection is not
	made at a slow, steady rate. Administer by 2 deep, intramuscular injection into the ventrogluteal(1st line choice – see refences) or dorsogluteal muscle Do not inject into or near a nerve. Injection into or near a
	nerve may result in permanent neurological damage Administration in the anterolateral thigh is not recommended due to the adverse effects observed and vascularity of this region.
Drug Interactions*	Tetracyclines may antagonise the bactericidal effect of penicillin and concurrent use of these drugs should be avoided if possible.
	The rate of excretion of the penicillins is decreased by concomitant administration of probenecid which prolongs, as well as increases, blood levels of the penicillins *See AMH Penicillins for more detailed information
Adverse Effects Relevant to STI Treatment	Common: injection site pain, nausea, vomiting, blurred vision, dizziness
	Jarisch-Herxheimer reaction is a common reaction to treatment in patients with primary and secondary syphilis. It occurs 6-12 hours after commencing treatment and is an



	unpleasant reaction of varying severity with fever, headache,
	malaise, rigors and joint pains, and lasts for several hours.
	Symptoms are controlled with analgesics and rest. Patients should be alerted to the possibility of this reaction and
	reassured accordingly
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	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing Implications	Patients should be advised to monitor for rash and swelling while remain in the clinic for 15 minutes post administration
	Advise of possible Jarisch-Herxheimer reaction when treating contact, primary or secondary syphilis
	Advise no sexual contact for 7 days after 1st treatment is administered.
	Advise no sex with partners from the last 3 months (primary syphilis), 6 months (secondary syphilis) or 12 months (early latent) until the partners have been tested and treated if necessary.
	Contact tracing and presumptive treatment of partners where last contact was within 3 months
	All people treated as a contact of syphilis should be tested and if positive assessed regarding any additional treatment and other management required
Patient Education	Advise patient to seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing.
	Advise for future syphilis testing some tests will remain
	positive for life but this is not always an indication of
	treatment failure or re-infection. Because of this it is useful
	for patients to advise the testing clinician of a past treated syphilis diagnosis.
Contact Tracing	Australian STI Management Guidelines for use in Primary
	Care December 2021: Syphilis – See Contact Tracing
	Australian Contact Tracing Guidelines: Syphilis



Related Documents and References

Medication Supply/Administration Checklist

MIMS Online October 2022 https://www.mimsonline.com.au/

Australian STI Management Guidelines for use in Primary Care December 2021: Syphilis

Australian Contact Tracing Guidelines: Syphilis

Australian Medicines Handbook, July 2022 https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-infectives/antibacterials/penicillins/benzathine-benzylpenicillin?menu=hints

Isseven, Seda Dere and Tulay Sagkal Midilli. "A Comparison of the Dorsogluteal and Ventrogluteal Sites Regarding Patients' Levels of Pain Intensity and Satisfaction following Intramuscular Injection." (2020).

https://www.semanticscholar.org/paper/A-Comparison-of-the-Dorsogluteal-and-Ventrogluteal-Isseven-Midilli/6de74aaf44d3b80c09d673260370febcf62d4bb6

Şimşek, Aynur. (2020). Using the ventrogluteal site for intramuscular injection. The Anatolian Journal of Family Medicine. 10.5505/anatoljfm.2020.84755. https://pubmed.ncbi.nlm.nih.gov/15871375/

Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi

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3.8. Tenofovir disoproxil* /emtricitabine supply as Post-Exposure Prophylaxis (PEP) after Non-Occupational exposure to HIV

Indication	Possible or known exposure to HIV in the last 72 hours based on recommendations of the Post-Exposure Prophylaxis after Non-Occupational and Occupational Exposure to HIV: Australian National Guidelines Note If 3 drug PEP is indicated this should not delay the commencement of tenofovir disoproxil* /emtricitabine under this medication protocol but a medical consultation for a 3 rd drug must be arranged as soon as possible.
Drug	Tenofovir disoproxil/emtricitabine – Antiviral agent
Presentation	co-formulated tablets containing 300 mg tenofovir disoproxil* and 200 mg emtricitabine
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Previous hypersensitivity or allergic reaction to Tenofovir disoproxil* /emtricitabine Must not be administered to children or adolescents under the age of 18 years Should not be administered concomitantly with other medicinal products containing any of the same active components Known Hepatitis B chronic infection Known chronic kidney disease Known osteoporosis Pregnancy
Pregnancy Category	B3 - If patient is pregnant, they must be assessed by an authorised s100 prescriber and are excluded from medication protocol supply
Dose and frequency	Tenofovir disoproxil* /emtricitabine 300mg/200mg daily for 28 days, orally
Supply and administration	Advise to take the same time each day with food, if possible, as optimises the absorption of tenofovir
Drug Interactions	Antivirals Ledipasvir/sofosbuvir Sofosbuvir/velpatasvir Sofosbuvir/velpatasvir/voxilaprevir



Drug Interactions (continued)

Sofosbuvir

Analgesics

- Aspirin
- Celecoxib
- Diclofenac
- Ketorolac
- Mefenamic acid
- Meloxicam
- Naproxen
- Nimesulide
- Piroxicam

Antiarrhythmics

- Amiodarone
- Quinidine

Antibacterials

- Amikacin
- Capreomycin
- Clarithromycin
- Gentamicin
- Kanamycin
- Piperacillin
- Streptomycin
- Sulfadiazine
- Tazobactam
- Vancomycin

Anticonvulsants

Topiramate

Antidepressants

Lithium

Anti-diabetics

Canagliflozin

Antifungals

- Amphotericin B
- Fluconazole
- Flucytosine
- Itraconazole
- Ketoconazole
- Posaconazole
- Voriconazole

Antiprotozoals

- Meglumine antimoniate
- Pentamidine

NSW HEALTH PROCEDURE



Adverse Effects	Common: nausea, diarrhoea, headache, dizziness,
Relevant to STI	insomnia, abnormal dreams, rash
Treatment	
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction) Nephrotoxicity
Nursing Implications and requirements	PEP appears to be most effective when administered as soon as possible after exposure. If 3 drug PEP is indicated this should not delay the commencement of tenofovir disoproxil* /emtricitabine but a medical consultation for a 3 rd drug must be arranged as soon as possible.
	People taking PEP warrant careful assessment of the context of risk behaviour and should prompt consideration for PrEP
	Before supplying PEP Nursing staff must have performed documentation and testing as per NSW Sexual Health SOP, local clinic guidelines and / or Post-Exposure Prophylaxis after Non-Occupational and Occupational Exposure to HIV: Australian National Guidelines
Patient Education	Advise:
	 Seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing. PEP provides high levels of protection but does not prevent 100% of infections the importance of adherence for efficacy the potential side effects of treatment and possible drug interactions measures for preventing re-exposure to HIV follow-up HIV and STI testing as per NSW Sexual Health SOP, local clinic PEP policy or Post-Exposure Prophylaxis after Non-Occupational and Occupational Exposure to HIV: Australian National Guidelines HIV seroconversion signs and symptoms
Contact Tracing	N/A
Related Documents and References	Medication Supply/Administration Checklist ASHM Post-Exposure Prophylaxis (PEP) www.pep.guidelines.org.au
	Consumer Medicine Information

Medication Protocols under NSW Health Policy Directive: <u>RN Supply and Administration of STI Therapies in Publicly Funded Sexual Health Services</u>



	http://www.tga.gov.au/consumer-medicines-information-cmi
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3.9. Tenofovir disoproxil* /emtricitabine supply as Pre-Exposure Prophylaxis (PrEP) for initiation and continuation

Indication	Patient requests PrEP
maication	·
	2. Patient has HIV risk as per ASHM PrEP Guidelines
Davis	3. Patient is currently taking PrEP
Drug	Tenofovir disoproxil* /emtricitabine – Antiviral agent
Presentation	co-formulated tablets containing 300 mg tenofovir disoproxil* and 200 mg emtricitabine
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Previous hypersensitivity or allergic reaction to Tenofovir disoproxil* /emtricitabine Must not be administered to children or adolescents under the age of 18 years Should not be administered concomitantly with other medicinal products containing any of the same active components Known Hepatitis B chronic infection Known history of renal impairment or history of kidney injury or structural abnormality Clients who's last eGFR < 70 On-going use of nephrotoxic drugs (e.g. Nonsteroidal anti-inflammatory drugs, Lithium. Recommend to use IBM Micromedex ® Drug Interactions) Pregnancy For On- demand dosing: any patient who is not a cisgendered man who has sex with men AND Any person who has undergone bariatric surgery
Pregnancy	B3 - If patient is pregnant, they must be assessed by an
Category	authorised s100 prescriber and are excluded from
	medication protocol supply
	Dose and frequency
Daily	Tenofovir disoproxil* / emtricitabine 300mg/200mg daily for 90 days, orally
On-demand*	Two tablets of Tenofovir disoproxil* / emtricitabine
	300mg/200mg 2 – 24 hours before potential sexual
	exposure to HIV, then Tenofovir disoproxil* / emtricitabine



*for cisgender men	300mg/200mg every 24 hours until 48 hours after most
who have sex with men only	recent potential sexual exposure to HIV.
Supply and	Advise to take the same time each day with food, if possible,
administration	as optimises the absorption of tenofovir
Drug Interactions	Antivirals
	Ledipasvir/sofosbuvir
	Sofosbuvir/velpatasvir
	 Sofosbuvir/velpatasvir/voxilaprevir
	Sofosbuvir
	Analgesics
	Aspirin
	Celecoxib
	Diclofenac
	Ketorolac
	Mefenamic acid
	Meloxicam
	Naproxen
	Nimesulide
	Piroxicam
	Antiarrhythmics
	Amiodarone
	Quinidine
	Antibacterials
	Amikacin
	Capreomycin
	Clarithromycin
	Gentamicin
	Kanamycin
	Piperacillin
	Streptomycin
	Sulfadiazine
	Tazobactam
	Vancomycin
	Anticonvulsants
	Topiramate
	Antidepressants
	Lithium
	Anti-diabetics
	Canagliflozin
	Antifungals
	Amphotericin B



	Fluconazole
	Flucytosine
	Itraconazole
	Ketoconazole
	Posaconazole
	Voriconazole
	Antiprotozoals
	Meglumine antimoniate
	Pentamidine
Adverse Effects	Common: nausea, diarrhoea, headache, dizziness,
Relevant to STI	insomnia, abnormal dreams, rash
Treatment	
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction) Nephrotoxicity
Nursing	Before supplying PrEP Nursing staff must have performed
Implications	documentation and testing as per NSW Sexual Health SOP,
	local clinic guidelines and / or ASHM PrEP guidelines
	If patient reports having bariatric surgery consultation with a
Deffect Education	medical officer should before providing on demand PrEP
Patient Education	Advise:
	Seek medical advice immediately if signs of an
	allergic reaction (rare) such as rash, swelling,
	difficulty breathing.
	 the importance of adherence for efficacy and missed dose protocol
	Potential side effects of treatment and possible drug
	interactions
	Follow-up 3 monthly HIV and STI testing
	Condom use
O = = 1 = = 1	Discuss safer injecting practices, if applicable
Contact Tracing	N/A
Related Documents	Medication Supply/Administration Checklist
and References	AOUNT D DD 1111 111 111 111 111 111 111 111
	ASHM PrEP guidelines https://www.ashm.org.au/hiv/prep/
	Consumer Medicine Information
	http://www.tga.gov.au/consumer-medicines-information-cmi



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3.10. Valaciclovir supply for treatment of primary or recurrent Herpes Simplex Virus episode

Indication	Treatment of clinical episodes of first episode or recurrent genital herpes simplex virus (HSV) infections
Drug	Valaciclovir - Antiviral agent
Presentation	Valaciclovir 500mg tablets
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Previous hypersensitivity or allergic reaction to valaciclovir, aciclovir or any component of the formulation Patients reporting reduced renal function (>60 eGFR) Pregnancy
Pregnancy Category	B3 - There is limited data on the use of valaciclovir in pregnancy. Valaciclovir should not be supplied if the patient is pregnant and must be referred to an authorised prescriber
	Dose and frequency
Primary episode	Valaciclovir 500mg, twice a day for 5 days, orally
Recurrent episode	Valaciclovir 500mg, twice a day for 3 days, orally
Supply and administration	Dosing should begin as early as possible. For recurrent episodes of genital herpes, this should ideally be during the prodromal period or immediately following the appearance of the first signs or symptoms
Drug Interactions	Valaciclovir should only be combined with other nephrotoxic medicinal products with caution, especially in subjects with impaired renal function. This applies to concomitant administration with:



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	Probenecid and cimetidine reduce valaciclovir renal clearance (no dosage adjustment necessary).
	In patients over 60 years of age, concurrent use of diuretics increases plasma levels of valaciclovir very significantly.
Adverse Effects Relevant to STI Treatment	Common: nausea, vomiting, stomach pain headache and dizziness
Trodinion:	Infrequent: agitation, vertigo, renal impairment
	Rare: hypersensitivity (e.g. anaphylaxis, severe skin reaction)
Nursing Implications	All cases of first episode genital herpes should be followed up at 72 hours. if lesions are still developing, or existing lesions are slow to heal, the patient should be asked to return and given a further 5 days of valaciclovir treatment
	If patient re-presents with outbreaks or reports psychosexual complications of the diagnosis should be referred to a authorised prescriber for suppressive therapy
Patient Education	Advise patient to seek medical advice immediately if signs of an allergic reaction (rare) such as rash, swelling, difficulty breathing
	Patients should be advised to avoid intercourse when symptoms are present even if treatment with an antiviral has been initiated
	Treatment does not cure genital herpes or completely eliminate the risk of transmission
	Psychosocial impact of diagnosis can be profound but is often based on misinformation.
	Providing facts about high community prevalence (70%-80% HSV1 and 12-15% HSV2) and largely mild clinical effect
	Concerns about a current relationship may be addressed with knowledge that transmission can occur from someone unaware they have the infection and symptoms can also occur for the first time some days or years after acquisition



	Refer patients and / or their partners to a counselling or Sexual Health Infolink (1800 451 624) for support if they are unable to accept the diagnosis, are significantly distressed by the diagnosis, or anxious about having the infection when tested negative
Contact Tracing	Contact tracing is not recommended for HSV infections.
Related Documents	Medication Supply/Administration Checklist
and References	
	MIMS Online October 2022 https://www.mimsonline.com.au/
	Australian STI Management Guidelines for use in Primary
	Care December 2021: Genital herpes simplex virus (HSV)
	Australian Medicines Handbook, July 2022
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-
	infectives/antivirals/guanine-analogues/valaciclovir
	o chi con galatimi o attato galo o rata di lotti
	Consumer Medicine Information
	http://www.tga.gov.au/consumer-medicines-information-cmi

Local Nurse Protocol Authorisation:	
Date approved byLHD Drug and Therapeutics Committee:	
Review Date:	



3.11. Fluconazole supply for treatment of vaginal candidiasis

Indication	Antifungal treatment of clinically diagnosed vaginal candidiasis
Drug	Fluconazole; antifungal agent
Presentation	Tablet: 150 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration Pregnancy Category	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist Known hypersensitivity to fluconazole, to related azole compounds or to any of its excipients Known Pregnancy or breastfeeding Less than 18 years of age Coadministration of other drugs known to prolong the QT interval and which are metabolised via the enzyme CYP3A4 Concomitant use of Erythromycin, Cisapride, Terfenadine, Astemizole, Pimozide, Quinidine, Olaparib, Anticoagulants D; Drugs which have caused, are suspected to have
	caused or may be expected to cause, an increased incidence of human fetal malformations or irreversible damage. There have been reports of spontaneous abortion and congenital abnormalities in infants whose mothers were treated with 150 mg of fluconazole as a single or repeated dose in the first trimester.
Dose and frequency	Fluconazole 150 mg as a single dose, orally May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service
Supply and administration	Oral, with or without food May be administered within a service or the medication may be supplied via pre-labelled stock for take home use outside the service
Drug Interactions*	Coadministration of Fluconazole can increase the effects of: • Benzodiazepines • Calcium channel blockers



	Celecoxib
	Cyclosporin
	Cyclophosphamide
	Fentanyl
	Methadone
	Halofantrine
	Nonsteroidal anti-Inflammatory drugs (NSAIDs)
	Oral hypoglycaemic agents
	Losartan
	Ibrutinib
	HMG-CoA reductase inhibitors
	Phenytoin
	Prednisone
	Rifabutin
	Saquinavir
	Sirolimus
	Sulfonylureas
	Tacrolimus
	Theophylline
	Tofacitinib
	Tolvaptan
	Vinca alkaloids
	Vitamin A
	Warfarin
	Zidovudine
	Carbamazepine
	*See AMH Azoles for more detailed information
Adverse Effects	Common: gastrointestinal upsets, headache, Abnormal
Relevant to STI	vision, dizziness, vertigo, Back pain, myalgia
Treatment	
	Infrequent: anorexia, fatigue
	Rare: Torsade de pointes, QT prolongation, Hepatic
	toxicity
Nursing Implications	If recurrent acute candidal vulvovaginitis (defined as four or
	more acute episodes of candidal vulvovaginitis in a year,
	with at least two of these episodes confirmed by
	microscopy or culture) are documented or reported a
	fungal culture should be collected and patient booked for medical review
	ineulcal review



	Risk factors for candidal vulvovaginitis should be documented such as: Pregnancy Diabetes mellitus Treatment with broad-spectrum antibiotics Chemotherapy Vaginal foreign body
Patient Education	Contraceptives Use a soap substitute such as a sorbolene based wash to clean the vulval area. Advise the patient not to use internally and not to use more than once daily
	Use an emollient to moisturise the vulval skin
	Wear breathable underwear
	Avoid applying topical irritants such as perfumed products or douching
	Sexual transmission has negligible significance in the aetiology of vulvovaginal candidiasis. Sex partners do not need to be examined and treated
Contact Tracing	N/A
Related Documents and References	Medication Supply/Administration Checklist MIMS Online October 2022 https://www.mimsonline.com.au/ Australian STI Management Guidelines for use in Primary
	Care December 2021: <u>Candidiasis</u> Australian Medicines Handbook, July 2022 https://amhonline.amh.net.au.acs.hcn.com.au/chapters/anti-infectives/antifungals/azoles/fluconazole
	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi



Local Nurse Protocol Authorisation:		
Date approved by	LHD Drug and Therapeutics Committee:	
Review Date:		



3.12. Levonorgestrel supply as emergency contraception

Indication	For use in people with a vagina within 72 hours of vaginal intercourse in the following situations: 1. Unprotected intercourse 2. Concerns about possible contraceptive failure 3. Incorrect use of contraceptives 4. Sexual assault without contraception coverage
Drug	levonorgestrel; contraceptive agent
Presentation	Tablet: 1.5 mg
Contraindications The drug information provided is to act as a guide only, for further information reference should be made to the full product info available on MIMS or the Australian Medicines Handbook If contraindications, precautions or interactions are present refer to MO before administration	 Failure to meet all eligibility criteria per Medication Supply/Administration Checklist History of allergy or hypersensitivity to progestogen Unexplained vaginal bleeding Current breast cancer Unprotected intercourse > 72 hrs earlier in same menstrual cycle Suspected pregnancy/ pregnancy Severe Hypertension (>180/110) Diabetes Mellitus with nephropathy Retinopathy Neuropathy History of ischaemic heart disease, stroke, severe hepatic dysfunction, or past History Breast Cancer
Pregnancy Category	D; not to be used during an existing or suspected pregnancy
Dose and frequency	levonorgestrel 1.5 mg as a single dose, orally
Supply and administration	Oral, with or without food
Drug Interactions*	The metabolism of levonorgestrel can be enhanced by: Drugs which induce CYP3A4, Barbiturates Phenytoin Carbamazepine Herbal medicines containing Hypericum perforatum (St. John's wort), Rifampicin Ritonavir rifabutin Griseofulvin Celecoxib



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	*See <u>AMH Progestogens</u> for more detailed information
Adverse Effects Relevant to STI Treatment	Common: menstrual irregularity, prolonged bleeding, spotting, amenorrhoea, breast tenderness, depression, acne
	Infrequent: nausea, vomiting, headache, dizziness, lethargy
	Rare: cholestatic jaundice, decreased libido, androgenic effects (hirsutism, greasy hair), hypersensitivity (eg anaphylactic or skin reaction)
Nursing Implications	Vomiting within 2 hours of ECP will require a repeat dose
	Conditions associated with malabsorption may impair efficacy
	Repeat use; People who present for repeated courses of ECP should be counselled about alternative methods of contraception, including the benefits of long acting reversible contraception (LARC)
Patient Education	Explain individual risk of pregnancy, mode of action of medication, efficacy of medication, potential side effects and menstruation patterns following medication
	Discuss ongoing contraception for remainder of cycle and ongoing long-term contraceptive methods such as LARC
	Provide contact details for further contact/follow up if needed
Contact Tracing	N/A
Related Documents and References	Medication Supply/Administration Checklist
	MIMS Online October 2022 https://www.mimsonline.com.au/
	Tittps://www.mimsoriline.com.au/
	Australian Medicines Handbook, July 2022
	https://amhonline.amh.net.au.acs.hcn.com.au/chapters/obs
	tetric-gynaecological-drugs/drugs- contraception/progestogens/levonorgestrel
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	Consumer Medicine Information http://www.tga.gov.au/consumer-medicines-information-cmi
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Date approved by	LHD Drug and Therapeutics Committee:
Review Date:	



4 APPENDIX LIST

1. RN Supply and Administration of STI Therapies Checklist



APPENDICES

PD2020_024

1.	RN Supply and Administration of STI Therapies Checklist
	Patient is14 years of age and over (18 years for Tenofovir disoproxil* /emtricitabine or Fluconazole supply)
	Reports no chills, body aches or flu like symptoms?
	Reports no IMB, PCB, pelvic pain, dyspareunia, fever, testicular pain, and breaks in skin or ulceration or rectal discharge or bleeding, anal pain or tenesmus?
	Reports no urethral discharge, vaginal discharge, genital itch or dysuria for more than seven days?
	Reports no previous allergy, reaction or hypersensitivity to relevant medication?
	Drug specific protocols have been met and no contraindications including drug interactions as outlined on relevant medication protocol?
	Pulse is above 50 and below 120 beats per minutes?
	Current temperature is above 35.5 and below 38.5 degrees Celsius?
ı	Check NSW STIPU website to ensure correct treatment is used as per Medication Protocols under NSW Health Policy Directive RN Supply and Administration of STI Therapies in Publicly Funded Sexual Health Services.
lf tl	he above is not met consultation with a medical officer must be sought.
Educatio	on
	Advised no unprotected intercourse until medication complete.
	Provided information on how to take medications including drug interactions.
	Informed of common side effects associated with medication.
	Advised when to seek medical advice in case of allergic reaction or adverse events related to medication.
	Advised of expected symptom resolution (if symptoms present).
	Advised timing of test of cure and/or retest per medication protocol.
á	Contact tracing and STI testing of sexual contacts undertaken per medication protocol and NSW Sexual Health Standards Operating Procedures Manual—HIV and STI Testing and HIV and STI Partner Notification.

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