Aims

- to provide a simple, empirical approach to the treatment of common infections
- to promote the safe, effective and economic use of antibiotics
- to minimise the emergence of antimicrobial resistance in the community

Principles of Treatment

- 1. This guidance is based on the available evidence but professional judgement should be used and patients should be involved in decisions
- 2. Prescribe an antibiotic only when there is likely to be clear clinical benefit
- 3. Do not prescribe an antibiotic for viral sore throat, simple coughs and colds
- 4. Use caution when prescribing quinolones and refer to recent safety update before choosing for high risk patients <u>MHRA Quinolones</u> for safety info and <u>Quinolones patient leaflet</u>
- 5. Consider whether <u>Pharmacy First</u> could be a suitable point of referral for the patient.
- 6. Limit prescribing over the telephone to clinically appropriate cases
- 7. Lower threshold for antibiotics in Immunocompromised or those with multiple morbidities: consider culture and seek advice
- 8. Use simple generic antibiotics first whenever possible
- 9. The use of antibiotics associated with a higher risk of developing Clostridioides Difficile infection, MRSA and resistant UTI's (e.g. cephalosporins, co-amoxiclav, quinolones and clindamycin) is inappropriate when effective alternates are available
- 10. Avoid topical antibiotics (especially those agents available as systemic preparations)
- 11. In pregnancy AVOID tetracyclines, aminoglycosides, quinolones and high dose metronidazole. Trimethoprim is no longer licensed for use at any stage of pregnancy. Nitrofurantoin should be avoided at term.
- 12. Where a "best guess" therapy has failed or special circumstances exist, microbiology advice can be obtained from duty microbiologist via switchboard.
- 13. For the management of MRSA please refer to the D+G infection control manual Management of MRSA

ILLNESS	COMMENTS D	RUG	DOSE	DURATIC	ON OF Tx
UPPER RESPIRAT	FORY TRACT INFECTIONS: Conside	r delayed antibiot	ic prescriptions		
Acute sore	Avoid antibiotics as 90% resolve in	7 days without and	pain reduced by 1	L6 hours ^{2A+} .Patie	ents with 3 of 4
throat.	centor criteria(history of fever, pur				
	otitis media may benefit more from				
<u>CKS</u>	Number needed to treat (NNT) with antibiotics to prevent 1 episode of quinsy is >4000 ^{4B- ·} NNT to prevent 1 episode of otitis media is 200 ^{2A+} .				
	Evidence indicates that penicillin	Phenoxymeth	nyl 500mg (QDS	7 days ^{8A-}
	500mg QDS for 7 days is more	penicillin. 5B-	OR		
	effective than 3 days. 1g BD can also		1g BD (C	DS in severe	
	be used. ⁶⁺ QDS may be more effec	tive	infection	าร)	
	if severe.	Clarithromyc	in if 500mg E	BD	5 days ^{9A+}
		allergic to pe			
Acute Otitis	Optimise analgesia 2,3B-	Amoxicillin ^{8A}		125mg TID	5 days ^{10A+}
media (child	Target antibiotic appropriately – O			250mg TID	
doses)	Media resolves in 60% of cases with		>5 yrs -	500mg TID	
	24 hours without antibiotics: they o				
	reduce pain at 2 days (NNT=15) and $\frac{44+}{44+}$	l do			
<u>CKS</u>	not prevent deafness ^{4A+}				
	Consider 2 or 3 days delayed ^{1A+} or immediate antibiotics for pain relief the following instances : • < 2 yrs with bilateral acute			ight <8kg :- g BD	5 days ^{10A+}
	otitis media	-	8 – 11kg	· —	5 days ^{10A+}
	(NNT =4) or bulging membrane and marked symptoms 5A+	<u>></u> 4	62.5mg		

	1	
 All ages with otorrhoea (NNT=3)^{6A+} NNT with an antibiotic to prevent one case OF mastoiditis IS >4000^{7B} 		12 – 19kg - 125mg BD 20 – 29kg – 187.5mg BD
Haemophilus is an extracellular pathogen, thus macrolides, which concentrates intracellularly, are less effective treatment		30 – 40kg – 250mg BD
Important to exclude an underlying chronic otitis media before	1 st line: Betamethasone	Apply 2 to 3 of every 3 to 4 h
	Belamethasone	every 3 to 4 r

failure.

	Haemophilus is an extracellular pathogen, thus macrolides, which concentrates intracellularly, are less effective treatment		187.5mg BD 30 – 40kg – 250mg BD	
Acute Otitis externa	Important to exclude an underlying chronic otitis media before commencing treatment. Many cases recover after thoroughly cleansing of	1 st line: Betamethasone 0.1% drops	Apply 2 to 3 drops every 3 to 4 hours; reduce frequency when relief obtained.	7 days
<u>CKS</u>	the external canal by suction or dry mopping. Cure rates similar at 7 days for topical			
	acetic acid or antibiotic +/- steroid ^{1A+} If cellulitis, or disease extending outside ear canal, start oral antibiotics based on previous sensitivities if available and also send a swab for	2nd line: Neomycin sulphate with corticosteriod ^{3A-,4D}	3 drops TID	7 days
	culture ^{2A+} Do not prescribe blindly more than once.	If suspected fungal infection: Clotrimazole 1% solution	Apply BD to TID	Continue for at least 14 days after infection clears.
Rhinosinusitis Acute ^{5c} or chronic	Avoid antibiotics as 80% resolve in 14 days without and they only offer marginal benefits after 7 days NNT=15	Amoxicillin ^{4A+, 7D}	500mg TID 1 g if severe ^{10D}	5 days ^{9A+}
<u>CKS</u>	^{2.3A+} Use adequate analgesia ^{4B+}	Or Doxycyline Or	200mg stat/100mg OD	5 days
	Consider 7 days delayed or immediate antibiotics when purulent nasal discharge NNT=8 ^{1,2A}	Phenoxymethlypeni cillin ⁸⁸⁺	500mg QID	5 days
	In persistent infection, an agent with anti-anaerobic activity should be considered ⁶⁸⁺	Only for use in persistent symptons:-		
		Co – amoxiclav ^{6B+}	625mg TID	5 days
Note: Low doses activity against	TORY TRACT INFECTIONS s of penicillins are more likely to select out pneumococcal infections and association v ed_for proven resistant organism.	vith a higher risk of cau	ising Clostridioides Difficil	-
Acute cough, bronchitis	Systematic reviews indicate antibiotics are of little benefit in otherwise healthy adults ^{1,4A+.}	Amoxicillin or Doxycycline	500mg TID 200mg stat/100mg OD	5 days 5 days
<u>CKS</u>	Consider 7 – 14 day delayed antibiotic with symptomatic advice/leaflet ^{1,5A-} Consider immediate antibiotics if >80 years with ONE of the following OR>65 years with TWO of the following:- hospitalisation in past year, taking oral steroids, diabetic, congestive heart failure			

		aly Cale	•	
Acute	Antibiotic not indicated in absence of	1 st line:-		
exacerbation of	purulent/ mucopurulent sputum.	Amoxicillin	500mg TID	5 days
COPD	Treat exacerbation promptly with	2 nd line:-		
NICE (NG114)	antibiotics if purulent sputum and	Doxycycline	200mg stat/100mg OD	5 days
<u>GOLD</u>	increased shortness of breath and/or	Penicillin allergy:-		
	increased sputum volume ^{1,38+}	Doxycycline	200mg stat/100mg OD	5 days
		Or Clarithromycin if		
	Risk factors for antibiotic resistant	Doxycycline	500mg BD	5 days
	organisms include co-morbid disease,	contraindicated		
	severe COPD, frequent exacerbation,			
	antibiotics in last 3months	If resistance risk		
		factors:-		
		Doxycycline		
		- 1-1	200mg stat/100mg OD	5 days
Scarlet fever	Prompt treatment with appropriate	Phenoxymethlypeni	500mg QDS	10 days
	antibiotics significant reduces the risk	cillin		
	of complications.	•		
<u>CKS</u>		Penicillin allergy:		
	Observe immuncompromised	Azithromycin	500mg OD	5 days
	individuals (diabetes; women in the			
	puerperal period; chickenpox) as they			
	are at increased risk of developing			
	invasive infection.			
IOWER RESPIRAT	ORY TRACT INFECTIONS (CONTINUED)			
		If CURB 65=0:		
Community	Use CURB65 score to help guide and review: ¹ Each scores 1:	Amoxicillin ^{A+}		Γ. devie
acquired			500mg TID	5 days
pneumonia –	C onfusion (new) (MSQ<8);	or Doxycycline ^D	200mg stat/ 100mg OD	5 days
treatment in the	Urea >7mmol/l (if available)	or Clarithromycin ^{A-}	500m a DD	Γ. devie
community	Respiratory rate >30/min;		500mg BD	5 days
NUCE 430	BP systolic <90 or diastolic <60;			
NICE 138	Age >65 years	If CURB 65=1 at		
<u>BTS</u>	Score = 0: suitable for home	home:		
	Treatment ;	Amoxicillin ^{A+}		
	Score =1-2: consider hospital	AND Clarithromycin	500mg TID	5 days
	assessment or admission		500m - DD	
	Score =3 – 4 : urgent hospital	Or	500mg BD	
	admission	Doxycycline alone		
	If no response in 48 hours consider		200mg stat/100mg OD	5 days
	admission or add clarithromycin first			
	line or a tetracycline to cover			
	Mycoplasma infection (rare in over			
	65s)			
	In delayed admission/life threatening			
	cases, give immediate parental			
	benzylpenicillin or amoxicillin 1g orally			
	before admission and seek risk factors			
	for legionella and Staph aureus			
	infection			
MENINGITIS				
Prevention of sec	condary cases : Only prescribe following ac	vice from public Health	n Doctor : 9am – 5pm :013	87 272726
Out of hours: Contact on -call doctor via D+GPI switchboard: 01387 2/62/6				

Out of hours: Contact on -call doctor via D+GRI switchboard: 01387 246246

		ary Care		
	INFECTIONS (UTI QUICK REFERNECE GUID			
^{1B+} In the presenc	rly (>65yrs), do not treat asymptomatic bac e of a catheter, antibiotic will not eradicate use prophylactic antibiotic for catheter cha	e bacteriuria; only treat	t if systemically unwell or p	oyelonephritis
Lower UTI in non- pregnant women <u>CKS,</u> <u>SIGN</u> <u>NICE 109</u>	Over 33% of symptomatic women have no identifiable bacterial infection ^{15.} Severe (≤ 2 symptoms):use dipstick to guide treatment and send MSU for culture ^{3A} Consider the use of delayed prescriptions in women with mild symptoms ^{16,17,18,19.} There is also evidence that Ibuprofen plus general advice about maintaining fluid intake is non-inferior to using Ciprofloxacin and can provide resolution of symptoms without the need for antibiotics ^{19.}	Trimethoprim ^{6B+} Or Nitrofurantoin ^{MR7B+, 8c, 9B+.}	200mg BD 100mg <u>MR</u> BD	3 days (consider a delayed prescription in women presenting with mild symptoms)
	Nitrofurantoin should be used with caution in the elderly and is contraindicated in individuals with an eGFR<45ml/min.	Consider Cefalexin fo Amoxicillin resistance confirms susceptibilit Multi – resistant ESBI	E. Coli is increasing but of ntoin, Pivmecillinam and F	g BD for 3 days Y use if culture iten remain
UTI in men <u>NICE 109</u> <u>SIGN</u> <u>CKS</u>	Consider prostatitis and send pre- treatment MSU ^{1,4 C} OR if symptoms - mild/non-specific, use -ve dipstick to exclude UTI ^{5C}	Uncomplicated UTI Trimethoprim OR Nitrofurantoin MR	200mg BD 100mg BD	7 days 7 days
_	Men with uncomplicated UTI can be treated with Trimethoprim or Nitrofurantoin	Consider Cefalexin for patients with CKD	500mg BD	7 days
	Men with symptoms suggestive of prostatitis (abrupt onset of avoiding symptoms, distressing but poor localised pain and systemic symptoms such as fever and malaise) should be treated with quinolones. ¹⁴ <10% of men who receive a diagnosis of prostatitis have a proven bacterial infection ¹⁴	Signs and symptoms suggestive of prostatitis Ciprofloxacin 2 nd line:- Trimethoprim	500mg BD 200mg	Review after 14 days and either stop or continue for a further 14 days. Provide <u>Quinolones</u> <u>patient leaflet</u> 28 days

		ary Care		
UTI in	Send MSU for culture and sensitivity	1 st line:-		
pregnancy	and start empirical antibiotics ^{1A.} A	Nitrofurantoin MR	100mg BD	7 days
p8,	repeat urine culture should be			
CVS	performed 7 days after the completion	2 nd line:-		
<u>CKS</u>	of the antibiotic course as a test cure			
<u>SIGN</u>		(If no improvement		
NUCE 100	Asymptomatic bacteriuria in	after 48 hours or		
<u>NICE 109</u>	pregnancy should be treated with an	Nitrofurantoin not		
	antibiotic	suitable)		
		Amoxicillin(if	500mg TID	7 days
	Nitrofurantoin is contraindicated in	culture results		
	individuals with e GFR <45ml/min and	show susceptibility)		
	should be avoided at term.	OR		
		Cefalexin	500mg BD	7 days
	Note: Trimethoprim no longer licensed	Cerdiexin	500116 00	, uuys
		Discuss with		
	in pregnancy (at any stage). Many	Discuss with		
	years of use have shown it is safe in	microbiologist for		
	the 2^{nd and} 3rd trimester but it should	alternatives		
	not be used first line.			
	Discuss with microbiologist if unsure.			
UTI in children	Children <3 months: refer urgently for	1 st line-	3 – 5 months – 4mg/kg	All 3 days
	assessment ^{1C}	Trimethoprim ^{1A}	or 25mg BD (max	,
NICE 109	Children \geq 3 months: use positive		200mg per dose)	
CKS	nitrite to start antibiotics ^{1A+.} Send pre-			
	treatment MSU for culture and		C mantha ta C uma	
			6 months to 5 yrs -	
	sensitivity is not detrimental to		4mg/kg or 50mg BD	
	outcome. ^{A-}		(max 200mg per dose)	
			6 – 11 years- 4mg/kg	
			or 100mg BD (max	
			200mg per dose)	
		2 nd line -	3 months – 11 yrs –	
		Nitrofurantoin	750mcg/kg QDS	
		MR ^{1A-}	12 - 15 yrs –	
			-	
			50mg QDS or	
			100mg MR BD	
		PD .		
		3 RD line -	1 – 11months-	
		Amoxicillin ^{1A}	125mg TDS	
		(if cultures show	1 – 4 years-	
		sensitivity)	250mg TDS	
			5 – 15 yrs –	
		OR	500mg TDS	
			3 – 11 months –	
		Cofolovin		
		Cefalexin	12.5mg/kg BD or	
		(if cultures show	125mg BD	
		sensitivity)	1 – 4 years	
			12.5mg/kg BD or	
			125mg TDS	
			5 – 11 years	
			12.5mg/ kg BD or	
			250mg TDS	
			_	
			12 – 15 years –	
		1	500mg BD	

		ary care		
Acute	If admission not needed, send MSU for culture and sensitivities and start	Trimethoprim	200mgBD	7 – 10 days ^{3A-}
pyelonephritis <u>CKS</u> <u>NICE 111</u>	antibiotic ^{1C} If no response within 24 hours, admit ^{2C}	If Penicillin allergy – Ciprofloxacin ^{3A-}	500mg BD	7 days Provide <u>Quinolones</u> patient leaflet
				14 days
Recurrent UTI in women(≥3 Infections per year OR ≥ 2 in 6 months) <u>CKS</u> <u>NICE 112</u>	Try simple measures to prevent infections, i.e. better hydration, urge initiated voiding and postcoital voiding if appropriate Post coital prophylaxis is an effective as prophaylaxis taken nightly ^{1.} The use of "standby" antibiotics may be a useful method of avoiding daily prophylactic antibiotics in recurrent UTI ^{3B+} Where continued problems exist, consider renal tract ultrasound and Post void bladder residual volume scan and in new presentations in post- menopausal women also consider referral for cystoscopy.	Nitrofurantoin OR Trimethoprim	50mg-100mg	Review in 6 months
Catheter	In menopausal women consider prescribing vaginal oestrogen if underlying cause has been investigated and behavioural /hygiene measures alone are ineffective or inappropriate. Treat empirically if symptomatic. 60%	1 st line:-		
infection	of cases are sensitive to Trimethoprim. Asymptomatic colonisation is common	Nitrofurantoin MR	100mg BD	7 days
<u>NICE 113</u>	and should not be treated. <u>Do not dip</u> urine!	Trimethoprim	200mg BD	7 days
	Change catheter after 24 hours of antibiotic treatment. Do not give prophylactic antibiotics to prevent catheter associated UTI. Consider prophylaxis at the time of catheter change for men who have a history of symptomatic UTI after catheter change or experience trauma	Amoxicillin (if culture results show sensitivity) 2 nd line:- (when first line unsuitable) Pivimecillinam	500mg TID 400mg stat/ 200mg TID	7 days 7 days
	during catheterisation	(a Penicillin)		

GASTROINTESTIN	AL INFECTIONS			
Clostridioides	First line treatment	Vancomycin po	125mg QID	10 days
difficile (see				
below)	st			
CIVE.	For patients who do not respond to 1 st	Fidaxomicin po or	200mg BD	10 days
<u>CKS</u>	line antibiotic after 7 days treatment,	higher dose	500m - 01D	
Црс	consider need for admission for IV fluid	Vancomycin po with or without	500mg QID	
<u>HPS</u>	replacement and surgical assessment.	intravenous		
		metronidazole IV	500mg TID	10 days
			500118 115	20 0075
	Recurrence of CDI within 12 weeks	Treat with		
	(relapse)	fidaxomicin po	200mg BD	10 days
	Exception- treatment failure identified			
	as incomplete treatment course (treat			
	as per first line treatment)			
			405 010	
	Recurrence of CDI after 12 weeks	Treat with oral	125mg QID	10 dava
		vancomycin as per first line treatment		10 days
	Second recurrence of CDI- Discuss			
	with infection specialist/microbiologist			
	and consider Faecal Microbiota			
	Transplant (FMT).			
	Pulse/Tapered vancomycin if FMT not			
	available.			
Clostridioides	Stop unnecessary antibiotics and/or acid			
difficile	Metronidazole may be prescribed in com			
	in delayed initiation of treatment. Metro			ycin as soon as
Gastroenteritis	availability is resolved to complete a tota The aim of antibiotic therapy is gastroen	-		nfection to prevent
Gastroententis	life –threatening complications- this can			
	factor such as achlorhydria, age >65 yrs,			-
	disease. Antibiotics increase the risk of h		-	
	on reducing duration in non-life threater	ning Campylobacter bu	t where antibiotic treatme	ent is deemed to be
	indicated, Clarithromycin 500mg BD for			
Traveller's	Limited prescription of antibacterial to l			
diarrhoea	remote areas and for those in whom an e Recommended treatment is Azithromyc	episode of infective dia	rrhoea could be dangerou	S ^{-/-~} .
	Recommended treatment is Azithromyc Ciprofloxacin and the C.Diff risk associate	•••		0
	prescription.		an cases, this should be su	ואטובת אום או ואסנפ
Threadworms	Treatment household contacts. Advise	6 months to adult:-		
CKS	morning shower/baths, hand hygiene	Mebendazole	100mg ^{1C}	Stat.
	and night time pants for 2 weeks PLUS		-	If reinfection
	wash sleepwear, bed linen, dust and			occurs second
	vacuum on day ^{1C.} These simple			<u>dose may be</u>
	hygiene measures are the preferred			needed after 2
	treatment option in pregnant patients.			<u>weeks.</u>
	If drug treatment is deemed necessary			
	in pregnant patients then it is best avoided in the 1 st trimester.			
	avolueu in the 1 trimester.			
	In children aged under 3 months, a 6			
	week hygiene regime is			
	recommended ^{1C}			
		1	1	

• West	<u>H guidelines</u> of Scotland Sexual Health MCN guidelines ally Transmitted Infections in Primary Care	i		
Acute and chronic prostatitis <u>BASHH</u>	Send MSU for culture and start antibiotics ^{1C} Quinolones achieve higher prostate levels however; Trimethoprim also achieves good	Acute 1 st line:- Ciprofloxacin	500mg BD	14 days then review Provide <u>Quinolones</u> patient leaflet
<u>CKS</u>	prostate levels ^{1C} . Trimethoprim associated with a lower risk of causing C. Diff infection than quinolones and is preferred in the treatment of Chronic Bacterial Prostatis for this reason	2 nd line:- Trimethoprim ^{1C}	200mg BD	14 days then review
		Chronic Trimethoprim ³	200mg BD	4 to 6 weeks ³
Bacterial vaginosis <u>BASHH</u>	Oral Metronidazole is as effective as topical treatment ^{1A+} but is cheaper. Less relapse with 7 day then 2g stat at 4 wks ^{3A+}	Metronidazole ^{1,3A+}	400mg BD Or 2g	7 days ^{1A+} Stat
<u>CKS</u> WOS MCN	Pregnant ^{2A+} / breastfeeding: avoid 2g stat ^{3A+ 4B-} Treating partners does not reduce relapse ^{5B+}	OR Metronidazole 0.75% vag gel ^{1A+}	5g applicatorful at NIGHT	5 nights ^{1A+}
		OR Clindamycin 2% cream ^{1A+}	5g applicatorful at NIGHT	7 nights ^{1A+}
Chlamydia trachomatis	Current partner(s) require treatment and previous partner(s) require testing. Assistance is available from	Genital and Pharyngeal (1) Doxycycline ^{3A+}	100mg BD	7 days
<u>BASHH</u>	Sexual Health . Patients should be encouraged to have blood tests for HIV, syphilis and where relevant hepatitis. Patients under 25 should be offered a	(2) Azithromycin ^{3A+}	1g stat (use 2 x 500mg) <u>then 500mg OD</u> <u>for 2 days</u>	1 hr before or 2 hrs after food
	Pregnancy ^{1C} or breastfeeding: Azithromycin is the most effective option ^{4A+;5B-}	Pregnant/ breastfeeding: Azithromycin ^{4A+} OR	1g (off-label use)	Stat ^{4A+} <u>then</u> <u>500mg OD for 2</u> <u>days</u>
	The 2017 BASHH statement highlighted concerns that some antibiotics (including Azithromycin) use in pregnancy maybe associated with an increase in spontaneous	Erythromycin ^{4A+}	500mg BD Or 500mg QDS	14 days ^{4A+} 7 days ^{4A+}

	FIIII	ary Care		
	 abortion. BASHH sees no reason at present time to change recommendations in its current guidelines for treating genital infections in pregnancy. Azithromycin is more effective and better tolerated than alternative antibiotics for genital Chlamydia. The potential risks and benefits of treatment options should be discussed with the patient and this should be documented in the clinical notes. Due to a lower cure rate in pregnancy, test for cure no earlier than 3 weeks after completion of treatment^{2C}. A repeat test at 36 weeks gestation is recommended to exclude-infection. All men with rectal Chlamydia and women with rectal Chlamydia and one of the following:- Rectal symptoms Inguinal lymphadenopathy HIV Who are a contact of lymphogranuloma venerum (LGV) Should referred to sexual Health for management Test for cure in rectal Chlamydia no earlier than 3 weeks after completion of the solution of the reation of the reation for management 	Amoxicillin ^{4A+} <u>Rectal Chlamydia</u> <u>Women:</u> Doxycycline <u>Men:</u> Refer to Sexual Health	500mg TID 100mg BD	7 days ^{4A+} 7 days
Epididymo- orchitis <u>WOS MCN</u>	Age and sexual history alone are not sufficient for guiding antibiotic therapy. Regimes should take into account age, sexual history, recent surgery / catheterisation, any known urinary tract abnormalities, urinalysis and the local prevalence of gonorrhoea and antibiotic resistance patterns. If treating as enteric organisms there should be a low threshold for Chlamydia and gonorrhoea testing . A painful swollen testicles in an adolescent boy or a young man should be managed as torsion until proven otherwise but if an infective cause cannot be excluded, antibiotics should be prescribed in addition to the emergency surgical referral	For epididymo- orchitis in men under 35yr Doxycycline If over 35yrs Ofloxacin STI testing MUST be considered. Above regimens won't cover gonorrhoea driven cases. If gonorrhoea will need additional of STAT IM	100mg BD 200mg BD	14 days Provide <u>Quinolones</u> <u>patient leaflet</u>

		Ceftriaxone 1g.		
Genital herpes	Recurrences are generally self limiting	First episode:		
BASHH	and cause more minor symptoms.	Aciclovir	400 mg TDS	5 days
	Management strategies include	Short course		
	supportive therapy only, episodic antiviral treatment or suppressive	therapy in		
	antiviral therapy.	recurrent disease :		
		Aciclovir	800mg TDS	2 days
		Suppressive		
		therapy in recurrent disease:		
		Aciclovir	400mg BD	Up to 1 year- then
				assess ongoing
				need.
External	Choosing not to treat is an option at	Podophyllotoxin	Apply BD	Applied for 3 days
Anogenital	any site. 30% of patients experience	0.5% solution		followed by 4
warts	spontaneous clearance over 6 months.			days rest with this
	Cryotherapy is also an option for a small number of lesions.	OR		cycle repeated a total of 4 times.
	Podophyllotoxin cream and solution	Podophyllotoxin	Apply BD	total of 4 times.
	used for have similar efficacy and	0.15% Cream		
<u>CKS</u>	costs. The cream may be easier for			
	patients to apply especially to less			
WOS MCN	accessible lesions. Although commonly			
	used for peri-anal Podophyllotoxin use is off license.			Use until warts are visibly cleared
	Camellia sinensis (green tea) leaf	Camellia sinensis		or for a maximum
	extract (Catephen) SMC approved for	(green tea) leaf	Apply TDS	of 16 weeks,
	restricted use for treatment of	extract (Catephen)		whichever comes
	external genital and perianal warts for			first.
	use in patients not suitable/not responded to treatment with			
	Podophyllotoxin.			Use until warts
				are visibly cleared
	The use Podophyllotoxin and	Refractory cases:		or for a maximum
	Imiquimod have similar response rates	Imiquimod 5%	Apply 3 times per week	of 16 weeks,
	but Imiquimod is often reserved for	cream		whichever comes
	refractory lesions because it is 3 times more expensive.			first.
	DO NOT use Podophyllotoxin, Camellia			
	sinensis or Imiquimod in pregnancy.			
Gonorrhoea	Discuss urgently with Sexual Health D & latest national advice on choice of antibi			
Pelvic	A low threshold for empirical			
Inflammatory	treatment is recommended because of			
Disease	for the potential for long term			
(PID)	sequelae. Not all patients are suitable			
	for outpatient treatment.			
<u>BASHH</u>	Always test Chlamydia and	Ceftriaxone	1g IM plus	stat
	Gonorrhoea. Refer to Sexual Health for	Metronidazole	400mg BD and	14 days
1				

	partner notification (current partner as a minimum needs Chlamydia treatment) If high risk of Gonorrhoea (GC) PID beware of using quinolones due to high levels of resistance. GC is more likely to be found in young adults, when there is a history of previous GC, a known contact of GC, females with a male partner who has sex with men; sex took place overseas and in those with severe symptoms. If high risk of GC severe symptoms discuss with gynaecology. If high risk of	doxycycline	100mg BD	14 days
	GC but symptoms not severe discuss with Sexual Health if available otherwise with gynaecology.			
	Refer to guidelines for alternative			
	regimes			
	Refer urgently to Sexual Health D&G	N de tra esta	400	E to Z dava
	Refer to Sexual Health D & G. Treat partners simultaneously ^{1B+}	Metronidazole	400mg BD Or	5 to 7 days
	In pregnancy and breastfeeding avoid		2g	stat
	2g single dose Metronidazole ^{2B-}		-0	
	All topical and oral azoles give 75%	Fluconazole	150mg orally	Stat
	cure ^{1A+} c= In pregnancy avoid oral azoles and use longer courses of intravaginal	OR Clotrimazole pessary OR	500mg pessary	(Avoid if breastfeeding) Stat
WOS MCN	treatment	OR Clotrimazole 500mg pessary +Clotrimazole 2% topical cream	<u>Pessary</u> - 1 x 500mg <u>Topical cream</u> – apply sparingly to surrounding area.	Stat 2 – 3 times a day until resolution of symptoms
		Pregnancy: Clotrimazole ^{3A+} OR	100mg pessary ON	6 nights
		Miconazole 2% cream	5g intravaginally ON OR 5g intravaginally PD	10 nights
Pre Exposure			5g intravaginally BD	7 days
Prophylaxis for HIV (PrEP)	All men who have sex with men should be assessed for PrEP/ PrEP is only available from Sexual Health D&G. For more information refer to <u>https://prep.scot/</u>			
HIV for Sexual Exposure (PEP)	PEP for Sexual Exposure is available from Sexual Health D&G, ED and Minor Injury Units.			
	For more information please refer to: http://hippo.citrix.dghealth.scot.nhs. uk/sorce/beacon/singlepageview.a spx?pii=589&row=2342&SPVPrimary Menu=5&SPVReferrer=SH Pathway Guidelines Referral Forms Folder P			

	age			
SKIN / SOFT TIS	SUE INFECTIONS			l
Impetigo	Consider <u>Pharmacy First</u> For extensive, severe or bullous	Topical Fusidic acid 3B+	TDS	5 days
<u>CKS</u>	impetigo, use oral antibiotics ^{1C} Reserve topical antibiotics for very	If more severe: Flucloxacillin ^{2C}	500mg QDS	
	localised lesions to reduce the risk of resistance ^{1,5C, 4B+} Reserve Mupirocin for MRSA.	If Penicllin allergic:	500mg BD	5 days
		Oral Clarithromycin ^{2C}		
		MRSA only : Mupirocin ^{3A+}	TDS	5 days
Eczema <u>CKS</u>	If no visible signs of infection, use of an improve healing ^{1B.} In eczema with visibl			
Cellulitis	If patient afebrile and healthy other than cellulitis, use oral Flucloxacillin	Flucloxacillin ^{1,2,3C}	500mg QDS	All for 7 days.
<u>CKS</u>	alone ^{1,2C} If river or sea water exposure, discuss with microbiologist.	If Penicillin allergy: Clarithromycin ^{1,2,3C}	500mg BD	
	If febrile and ill, admit for IV treatment ^{1C}	Facial: Co-amoxiclav	625mg TDS	
	Low threshold for admission if peri-orbital cellulitis	If penicillin allergy:		
		Clarithromycin 500mg BD for 5 – 7 days plus		
		Metronidazole 400mg TDS for 7 days		
Leg ulcers <u>CKS</u>	Bacteria will always be present. Antibiotics do not improve healing	Flucloxacillin	500mg QDS	All for 7 days.
	unless active infection ^{1A+} .Culture swabs and antibiotics are only indicated if there is evidence of clinical	Penicillin allergic: Doxycycline	200mg STAT followed by 100mg BD	Routine long- term use of
	infection such as inflammation/redness/cellulitis; increase pain; purulent exudates; rapid			topical antiseptics and antimicrobials is
	deterioration of ulcer or pyrexia ^{2C.} Sampling for culture requires cleaning then vigorous curettage and			not recommended
	aspiration. Culture swabs should be sent pre- treatment ^{3C} and treatment reviewed			
Animal bite	following culture results Surgical toilet most important ^{1C}	First line animal &		
	Assess Tetanus and rabies risk ^{2C} Antibiotic prophylaxis advised for –	human prophylaxis and treatment:	40	
<u>CKS</u>	puncture wounds; bite involving hand, foot, face, joint, tendon, ligament;	Co-amoxiclav	625mg TDS ^{4C}	7 days

		ary Care	1	1
	immunocompromised, diabetics, elderly, asplenic. If bite is from an animal living in an aquatic environment then consider adding in Ciprofloxacin 500mg BD to cover pseudomonas infection. For all other	If Penicillin allergic: Metronidazole + Doxycycline (animal/human) OR	400mg TDS 100mg BD ^{5C}	7 days 7 days
Human bite	animal bites, contact consultant microbiologist for advice. Antibiotic prophylaxis advised ^{3B-} Assess HIV/hepatitis B & C risk ^{1C}	Metronidazole + Clarithromycin (human) and review at 24 to 48 hrs ^{7C}	400mg TDS 500mg BD ^{6C}	7 days 7 days
Scabies <u>CKS</u>	Treat whole body from ear/chin downwards and under nails. Individuals under 2 yrs of age and the elderly include the face and scalp ^{2.} Treat all household and sexual contracts within 24 hrs ^{1C}	Permethrin ^{3A+}	5% cream	2 applications one week apart.
Dermatophyte infection of the fingernail or toenail <u>CKS</u>	Take nail clippings: Start therapy only if infection is confirmed by laboratory1C Terbinafine is more effective than azoles6A+Idiosyncratic liver reactions occur only rarely with oral antifungals2A+For children, seek specialist advice 3C	Terbinafine ^{6A-}	250mg OD fingers toes	6 – 12 weeks 6 months. <u>May</u> <u>require a further</u> <u>6 months</u>
	Pulsed Itraconazole monthly is recommended for infections with candida and non-dermatrophyte moulds ^{3B+,4C}	Itraconazole 6A+	200mg BD fingers Toes	7 days monthly 2 courses 7 days monthly 3 courses
Fungal infection of the skin <u>CKS</u>	One week of Terbinafine is as effective as 4 weeks azoles since it is fungicidal whilst the azoles are fungistatic Take if candida possible, use imidazole Skin scraping for culture if intractable ^{2C} . If infection confirmed then consider oral Terbinafine or Itraconazole ^{3B+} Discuss scalp infections with specialist	Topical Terbinafine ^{4A+} Or Topical Imidazole ^{4A+} if candida possible	BD BD	1 week ^{4A+} 4 to 6 week ^{4A+}
Chickenpox & Shingles <u>CKS</u>	If pregnant seek urgent specialist advice re treatment and prophylaxis ^{1B+} Chicken pox: Immunocompromised patients, including those on steroids are considered high risk and specialist advice should be sought in these cases. A low threshold for treatment is advised in all adults but treatment is especially warranted if it can be started within 24 hrs in Asian patients, obese patients, smokers, secondary household cases and those with an extensive rash and/or oral rash ^{2-4.} Treatment should also be started in these patients beyond 24 hrs if they	Aciclovir	800mg x 5/day Dispersible tablets are available if swallowing issues	7 days

Fillinary Care								
Cold sore MRSA INFECTION MRSA policy Mastitis CKS	are unwell, febrile and new lesions are still appearing. Shingles: treat > 50 yrs ^{5A +} and within 72 hrs of rash ^{6B+} (PHN rare if <50 yrs ^{7B-}) or if active ophthalmic ^{8B+} or Ramsey Hunt ^{9C} or eczema, severe pain, severe skin rash or prolonged prodromal pain Cold sores resolve after 7 -10 days witho duration by 12 – 24 hrs ^{1,2,3B+,4} Colonisation with MRSA is common and does not require treatment unless there is active infection S. aureus is the most common infecting pathogen: Suspect if women has: a painful breast, fever and / or genital malaise, a tender red breast Breast feeding: oral antibiotics are appropriate where indicated. Women should continue feeding, including the affected breast. Send sample of milk for culture		ntivirals applied prodroma 100mg BD 500mg QDS 500mg QDS 500mg BD	ally reduce 7days 10 days 10 – 14 days 10 days				
EYE INFECTIONS								
Conjunctivitis <u>CKS</u>	Treat if severe, as most viral or self limiting. Bacterial conjunctivitis is usually unilateral and ALSO self limiting ^{2C} it is characterised by red eye with mucopurulent, not watery, discharge: 65% resolve on placebo by day 5 ^{1A+}	Mild: advise selfcare measures such as bathing eyelids, cool compresses and lubricating drops or artificial tears If severe: ^{4,5B+,6B-} s	Hourly for 2 days then QDS for 5 days.					
		Chloramphenicol 0.5% drops OR 1% ointment	Apply QDS for 2 days then BD for 5 days Apply BD 7 days					