

## **Supplementary Material**

### **Antimicrobial surveillance in South Australian prisons: a pilot study**

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**Supplementary Table S1.** Annual antimicrobial consumption in SA prisons, 2021 and 2022, expressed as total Defined Daily Doses (DDD) for systemic antimicrobials and total grams for topical antimicrobials

Prison deidentified code:	2021									Total 2021	2022								Total 2022	Total (2021-2022)
	High Security				Low Security			Medium Security			High Security				Low Security		Medium Security			
	B5	H1	J5	T0	A3	J2	J3	N4	B5		H1	J5	T0	A3	J2	J3	N4			
<b>Oral Antibacterials (DDDs)</b>																				
doxycycline	836.0	1632.0	379.0	970.5	75.0	138.0	314.0	488.5	4833.0	737.5	426.0	272.0	742.0	92.0	104.5	214.5	112.0	2700.5	7533.5	
amoxicillin	686.7	792.7	280.0	790.0	230.0	46.7	480.0	198.7	3504.7	473.3	586.7	200.0	840.0	173.3	160.0	593.3	163.3	3190.0	6694.7	
flucloxacillin	156.0	780.0	515.0	654.0	102.0	36.0	575.0	222.0	3040.0	222.0	671.0	390.0	606.0	168.0	0.0	684.0	390.0	3131.0	6171.0	
amoxicillin-clavulanic acid	530.8	735.3	334.8	348.8	76.7	0.0	175.0	225.0	2426.5	348.3	484.2	160.8	309.2	113.3	61.7	203.3	72.0	1752.8	4179.3	
cefalexin	329.5	678.0	395.0	344.0	115.0	0.0	240.0	102.5	2204.0	340.0	537.0	225.0	312.5	115.0	80.0	235.0	55.0	1899.5	4103.5	
trimethoprim & sulfamethoxazole	55.0	535.0	124.0	175.0	80.0	15.0	170.0	10.0	1164.0	90.0	610.0	85.0	300.0	7.5	20.0	130.0	130.0	1372.5	2536.5	
minocycline	15.0	165.0	15.0	90.0	0.0	0.0	330.0	0.0	615.0	30.0	225.0	0.0	120.0	0.0	0.0	585.0	0.0	960.0	1575.0	
trimethoprim	115.5	168.0	63.0	136.5	0.0	0.0	31.5	21.0	535.5	136.5	110.3	94.5	42.0	21.0	36.8	15.8	36.8	493.5	1029.0	
clindamycin	54.0	114.5	123.0	66.0	18.0	6.0	30.0	27.0	438.5	126.0	136.5	142.0	189.0	52.5	18.0	97.0	3.0	764.0	1202.5	
azithromycin	86.7	71.7	80.0	111.7	6.7	30.0	50.0	8.3	445.0	90.0	70.0	63.3	191.7	23.3	10.0	40.0	23.3	511.7	956.7	
metronidazole	168.0	81.9	12.6	54.6	21.0	8.4	33.6	29.4	409.5	75.6	75.6	12.6	79.8	8.4	58.8	60.8	12.6	384.2	793.7	
phenoxymethylpenicillin	37.5	37.5	0.0	80.0	0.0	0.0	37.5	50.3	242.8	25.0	25.0	0.0	12.5	12.5	37.0	25.0	0.0	137.0	379.8	
clarithromycin	28.0	56.0	14.0	42.0	28.0	49.0	7.0	7.0	231.0	42.0	49.0	21.0	140.0	42.0	0.0	0.0	0.0	294.0	525.0	
roxithromycin	10.0	110.0	5.0	35.0	10.0	10.0	30.0	10.0	220.0	5.0	105.0	10.0	5.0	5.0	0.0	5.0	10.0	145.0	365.0	
ciprofloxacin	14.0	39.0	56.0	40.0	0.0	0.0	35.0	21.0	205.0	21.0	140.0	28.0	133.0	24.0	0.0	24.5	35.0	405.5	610.5	
rifaximin	0.0	102.7	0.0	0.0	0.0	-38.5	0.0	0.0	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.2	
erythromycin	18.8	40.0	6.3	12.5	0.0	0.0	6.3	12.5	96.3	6.3	0.0	6.3	25.0	12.5	0.0	25.0	0.0	75.0	171.3	
cefuroxime	20.0	61.0	0.0	0.0	0.0	10.0	0.0	0.0	91.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	110.0	
rifampicin	0.0	0.0	0.0	30.0	0.0	0.0	50.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	
Others*	13.0	56.8	0.0	73.3	0.0	0.0	78.0	0.0	221.7	11.0	22.5	5.0	0.0	0.0	12.0	30.0	0.0	80.5	301.6	
<b>IV Antibacterials (DDDs)</b>																				
flucloxacillin	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	
ceftriaxone	4.0	20.0	8.3	9.0	0.0	1.0	0.5	1.0	43.8	7.3	20.3	13.5	11.0	0.0	2.0	5.8	0.5	60.3	104.0	
cefazolin	0.0	36.7	0.0	0.0	0.0	0.0	0.0	0.0	36.7	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	96.7	

benzathine benzylpenicillin	2.5	5.0	2.5	0.0	0.0	2.5	0.0	0.0	12.5	7.5	0.0	0.0	5.0	0.0	2.5	0.0	2.5	17.5	30.0
clindamycin	0.0	6.7	0.0	3.3	0.0	0.0	0.0	0.0	10.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.3
metronidazole	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	2.0	0.0	10.0	0.0	16.0	0.0	0.0	28.0	38.0
benzylpenicillin	0.5	5.7	0.8	0.5	0.0	0.0	0.7	0.0	8.2	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.5	8.7
azithromycin	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
amoxicillin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
piperacillin-tazobactam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	5.7	0.0	0.0	8.0	0.0	25.1	25.1

#### Systemic antifungals (DDDs)

fluconazole	20.5	24.0	0.0	0.0	0.0	7.0	98.0	0.0	149.5	50.8	0.0	0.0	1.5	14.0	28.8	0.0	0.0	95.0	244.5
griseofulvin	0.0	140.0	0.0	0.0	28.0	0.0	504.0	0.0	672.0	0.0	0.0	0.0	0.0	28.0	0.0	280.0	0.0	308.0	980.0
itraconazole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	0.0	0.0	0.0	28.0	28.0
terbinafine	0.0	252.0	42.0	168.0	0.0	0.0	0.0	0.0	462.0	0.0	168.0	84.0	42.0	0.0	42.0	0.0	0.0	336.0	798.0

#### Systemic antivirals (DDDs)

bictegravir, emtricitabine, tenofovir alafenamide	0.0	300.0	240.0	420.0	0.0	0.0	360.0	0.0	1320.0	0.0	660.0	240.0	600.0	0.0	0.0	60.0	0.0	1560.0	2880.0
glecaprevir & pibrentasvir	56.0	224.0	224.0	112.0	0.0	0.0	56.0	0.0	672.0	84.0	84.0	56.0	28.0	168.0	0.0	56.0	0.0	476.0	1148.0
famciclovir	18.7	393.3	0.0	18.7	0.0	56.0	106.7	0.0	593.3	56.0	414.0	56.0	18.7	18.7	0.0	153.3	0.0	716.7	1310.0
rilpivirine	0.0	0.0	0.0	0.0	0.0	0.0	360.0	0.0	360.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	60.0	420.0
sofosbuvir & velpatasvir	84.0	84.0	0.0	0.0	0.0	0.0	168.0	0.0	336.0	28.0	0.0	84.0	0.0	0.0	0.0	504.0	28.0	644.0	980.0
lamivudine, abacavir, dolutegravir	0.0	0.0	120.0	0.0	0.0	0.0	0.0	0.0	120.0	0.0	180.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0	300.0
valaciclovir	0.0	0.0	0.0	50.7	0.0	0.0	25.3	0.0	76.0	3.3	18.7	8.3	6.7	5.0	0.0	31.3	7.0	80.3	156.3
aciclovir	0.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	9.0	22.5
molnupiravir	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	45.0	0.0	0.0	0.0	65.0	160.0	160.0
nirmatrevir & ritonavir <sup>#</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	0.0	50.0	0.0	0.0	0.0	50.0	175.0	175.0

#### Topical antifungals (Grams of active ingredient)

miconazole	27.8	12.6	33.0	46.8	19.6	0.0	30.6	7.8	178.2	8.4	33.6	31.0	32.0	7.8	0.0	32.4	11.8	157.0	335.2
ketconazole	0.0	84.4	2.0	0.0	6.0	0.0	12.8	0.0	105.2	0.0	105.4	0.0	0.0	0.0	4.0	28.0	0.0	137.4	242.6
clotrimazole	4.0	7.8	2.6	4.2	0.0	0.0	15.0	8.3	41.9	9.2	12.3	0.0	8.0	0.0	0.0	17.5	3.2	50.2	92.1
terbinafine	1.1	2.7	0.0	0.0	0.6	0.5	0.6	0.0	5.4	0.9	0.0	0.0	0.0	0.5	0.0	0.2	0.8	2.3	7.7

#### Topical antibacterials (Grams of active ingredient)

mupirocin	0.1	10.9	1.2	0.0	0.7	0.6	2.7	12.9	29.1	0.0	5.4	1.2	0.6	0.6	0.0	0.0	4.8	12.6	41.7
silver sulfadiazine	0.0	0.0	1.5	6.0	0.0	0.0	1.0	0.0	8.5	0.0	1.0	3.0	14.0	0.0	0.5	7.5	0.0	26.0	34.5
metronidazole	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.8	1.9
chloramphenicol (eye)	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.1	0.5	0.1	0.0	0.4	0.3	2.5	2.7
cefazolin (eye)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	2.3	2.3
ciprofloxacin (ear)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
dexamethasone and antiinfectives (ear)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.5	0.0	0.1	0.3	0.2	1.5	1.5
framycetin (eye)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
gentamicin (eye)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.7
hydrocortisone and antiinfectives (eye)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.4

DDD = Defined Daily Doses; SA = South Australia;

\*Others = oral antibacterials where aggregate annual consumption (all facilities combined) totalled less than 50 DDDs, and include norfloxacin, dicloxacillin, pyrazinamide, isoniazid, sodium fusidate, nitrofurantoin, and cefaclor;

#for combination antiviral products, the Unit Dose as defined by the World Health Organization was used.