

Table 4.3 Illustrative health problem listing for the village health worker level (abstracted from column 3 of Table 4.2)

Int.Clss Disease ICD code		Comm. Hlth.W. (VHW)
X	KEY:	
R	Health problems with drug requirements	24
S	Repeat visit for same health problem	4
NEC	Health services provided	5
	Not elsewhere classified	
009.2	Acute diarrhoea	X
084	Malaria	X
127.0	Ascariasis (roundworm)	X
132	Pediculosis (lice)	X
133.0	Scabies	X
280	Iron deficiency anaemia	X
372.0	Conjunctivitis	X
460	Common cold	X
521.0	Caries, toothache	X
535-6	Gastritis, heartburn, indigestion	X
564.0	Constipation	X
595	Cystitis	X
680-2	Boil, abscess	X
684	Impetigo, bacterial skin infection	X
714-6	Arthritis and arthrosis	X
724	Backpain, lumbago	X
780.6	Fever NEC	X
780.7	Malaise, fatigue NEC	X
784.0	Headache NEC	X
786.2	Cough NEC	X
789.0	Abdominal pain NEC	X
840-8	Sprains and strains	X
910-19	Superficial injury, bruise, minor cut	X
940-9	Burns	X
REPEAT VISITS FOR SAME HEALTH PROBLEMS		
	Injections	R
	Dressings	R
	Oral medication	R
	Follow-up visit	R
OTHER HEALTH SERVICE CONTACTS		
V03-07	Vaccinations	S
V20	Under-five preventive care	S
V22-3	Antenatal care	S
V25	Family planning, contraception	S
V70	Medical examination, no illness	S

ESTIMATING DRUG REQUIREMENTS

Table 4.5
Selecting appropriate drugs for each health problem
(Worksheet and illustrative data for health centres)

ICD	Health problem	Severity	Age	Drugs proposed	Decision	Remarks
O84	Malaria	Severity 1	Adults	chloroquine tab 150 mg base	yes	quinine preferred
			Children	chloroquine syrup 50 mg/ml	yes	
		Severity 2	Adults	quinine inj 300 mg/ml	yes	
				chloroquine inj 200 mg/5 ml	no	
			Children	quinine tabs 300 mg	yes	
				quinine inj 300 mg/ml	yes	
				quinine tabs 300 mg	yes	
O98	Gonorrhoea	Areas with <1% penicill resistance		procaine benzylpenicillin 3MU inj	yes	penicillin resistant gonococci prevalent in less than 1%
				probenecid tabs 500 mg	yes	
		Areas with >1% penicill resistance		spectinomycin inj 2 mg	no	
120	Schistosomiasis haematobium	Adults and children		metrifonate tabs 100 mg	yes	too expensive
				praziquantel tabs 600 mg	no	
120.2	Schistosomiasis mansoni	Adults and children		praziquantel tabs 600 mg	yes	best treatment for S.mansoni; suitable for other types of schistosomiasis
455	Haemorrhoids	Adults		hydrocortisone ointment 1%	yes	low cultural acceptability; ointment more frequently used
				antihaemorrhoid suppositories	no	
480-6	Pneumonia	Severity 1	Adults	procaine benzylpenicillin inj 3 MU	yes	6-hourly injections impractical at health centres
				benzylpenicillin inj 1 MU	no	
			Children	phenoxymethylpenicillin tabs 250 mg	yes	chloramphenicol or ampicillin may be used as alternatives
				sulfamethtrimethoprim tabs 400/80 mg	yes	
		Severity 2	Adults	sulfamethtrimethoprim tabs 400/80 mg	yes	
			Children	benzylpenicillin inj 1 MU stat	yes	
		All categories		and refer for admission paracetamol tabs 500 mg	yes	

Table 4.6**Illustrative essential drug list (alphabetical) for middle or health centre level of care**

Drug generic name	Dosage form and strength	Health problems for which indicated (ICD code)
acetylsalicylic acid	tab 300 mg	380.1 521.0 522.5 714-6 724 728 800-29 830-9 840-8 850-4 870-9 940.9
aluminium hydroxide	tab 500 mg	535-6
aluminium acetate	drp 13% ml	380.1
antivenom sera	inj IV 100 ml	989.5
ampicillin	cap 250 mg	670
benzathine benzylpenicillin	inj 2.4 IU vial (powder)	090-7 390-8
benzoic & salicylic acid	oin tube 25 mg	110
benzylbenzoate	lot 25% ml	133.0
calamine lotion	lot ml	052 698
chloramphenicol	cap 250 mg	002.0 728
chloramphenicol	inj 1 g amp (powder)	728
chlorhexidine	sol conc 5% ml	870-9 879.9 940-9 98
chloroquine	tab 150 mg base	84.00
chlorphenamine	tab 4 mg	786.2 989.5
chlorpromazine	tab 100 mg	290-9
dapsone	tab 50 mg	030
dextran 70	inj sol 6% 500 ml pack	459 666
diazepam	tab 5 mg	300 780.5
diazepam	inj 10mg/2ml amp	345.3 780.3
diethylcarbamazine	tab 50 mg	125.3 125
epinephrine	inj 1 mg/ml amp	493 995
ergometrine	inj 0.2 mg/ml amp	634-8 650 660-5 666
ferrous sulfate	tab 60 mg	280
ferrous sulfate & folic acid	tab 60 mg & 0.25 mg	V22-23
fluorescein	drps eye 1% 1 ml	930
folic acid	tab 1 mg	282.5
gentian violet	sol l	528 707.9
glibenclamide	tab 4 mg	401-5
glyceryl trinitrate	tab 25 mg	401-5
hydrochlorothiazide	tab 25 mg	401-5
imipramine	tab 25 mg	300.4
insulin zinc susp comp	inj 40 IU/ml 10 ml vial	250
ipecacuanha	syr 0.14% ml	960-79
lidocaine	inj sol 1% 50 ml vial	132
lindane	lot 1% ml	870-9
mebendazole	tab 100 mg	126 127.0
metrifonate	tab 100 mg	120.0
metronidazole	tab 200 mg	006-7 131.0 614
neomycin & bacitracin	oin 5mg & 500 IU tube 20g	684
niclosamide	tab 500 mg	123.3
nystatin	pes 100 000 IU	112.1
oral rehydration salts	pkt 1 litre	001 009.2
paracetamol	tab 500 mg	055 380.1 381.2 460
pethidine	inj 100 mg/2ml amp	788
phenobarbital	tab 50 mg	345.0 345.1
phenytoin	tab 100 mg	345.1
phenoxymethylpenicillin	tab 250 mg	381.2 463 480-6 522.1
praziquantel	tab 600 mg	120.1 120.2
probenecid	tab 500 mg	098.0
procaine benzylpenicillin	inj 3 MU vial (powder)	098.0 098.4 381.2 463
promethazine	tab 25 mg	786.2 787
quinine	tab 300 mg	084
quinine	inj 300 mg/ml 2ml vial	084
Ringers solution	sol 500 ml	009.2
salbutamol	tab 4 mg	493
senna	tab 7.5 mg sennosides	564.0
spectinomycin	inj 2 g vial	098.0
streptomycin	inj 1 g vial	011
sulfamethoxazole & trimethoprim	tab 400 mg & 80 mg	001 004 381.2 480-6 595
suramin sodium	inj 1 g vial (powder)	125.3
tetracycline	cap 250 mg	001 491-2 514
tetracycline	oin eye 1% tube 5mg	076 098.4 930
thiacetazone & isoniazid	tab 150 mg & 300 mg	011
vitamin A (retinol)	cap 200 000 IU	264
water for injection	10 ml vial	For use with powder form injectables

Table 4.8

Illustrative essential drug list (alphabetical) for middle or health centre level of care, with order pack size and illustrative price

DRUG GENERIC NAME	DOSAGE FORM & STRENGTH	PACK SIZE	PRICE PER PACK (\$)
acetylsalicylic acid	tab 300 mg	1000 tab tin	0.94
aluminium hydroxide	tab 500 mg	1000 tab tin	1.00
aluminium acetate	drp 13% ml	1000 ml bottle	3.00
antivenom sera	inj IV 100 ml	1 vial 100 ml	15.00
ampicillin	cap 250 mg	1000 cap tin	20.86
benzathine benzylpenicillin	inj 2.4 MU vial (powder)	2.4 MU vial	0.18
benzoic & salicylic acid	oint 6% & 3% mg	1 kg pot	3.61
benzyl benzoate	sol 25% ml	1000 ml bottle	1.57
calamine lotion	lot ml	500 ml bottle	1.28
chloramphenicol	cap 250 mg	1000 tab tin	9.80
chloramphenicol	inj 1 g amp (powder)	1 g vial	0.27
chlorhexidine	sol conc 5% ml	100 ml bottle	0.93
chloroquine	tab 150 mg base	1000 tab tin	5.95
chlorphenamine	tab 4 mg	1000 tab tin	0.88
chlorpromazine	tab 100 mg	100 tab tin	0.67
dapsone	tab 50 mg	1000 tab tin	0.66
dextran 70	inj sol 6% 500ml pack	500 ml bottle	0.14
diazepam	tab 5 mg	1000 tab tin	3.00
diazepam	inj 10mg/2ml amp	10 vial box	0.12
diethylcarbamazine	tab 50 mg	1000 tab tin	1.15
epinephrine	inj 1 mg/ml amp	10 amp box	0.37
ergometrine	inj 0.2 mg/ml amp	10 amp box	0.41
ferrous sulfate	tab 60 mg	1000 tab tin	0.82
ferrous sulfate & folic acid	tab 60 mg & 0.25 mg	1000 tab tin	0.76
fluorescein	drps eye 1% 1 ml	10 ml bottle	0.50
folic acid	tab 1 mg	1000 tab tin	0.58
gentian violet	sol ml	25 g tin (=1000 ml)	0.61
glibenclamide	tab 4 mg	1000 tab tin	1.50
glyceryl trinitrate	tab 25 mg	1000 tab tin	3.00
hydrochlorothiazide	tab 25 mg	1000 tab tin	2.18
imipramine	tab 25 mg	1000 tab tin	3.00
insulin zinc susp comp	inj 40 IU/ml 10 ml vial	10 ml vial	0.35
ippecacuanha	syr 0.14% ml	100 ml bottle	0.33
lidocaine	inj sol 1% 50 ml vial	50 ml vial	0.25
lindane	cream 1% 25 g	100 tubes	30.00
mebendazole	tab 100 mg	100 tab pack	0.61
metrifonate	tab 100 mg	1000 tab tin	10.00
metronidazole	tab 250 mg	1000 tab tin	5.39
neomycin & bacitracin	oint 5 mg & 500 IU tube, 20g	20g tube	0.16
niclosamide	tab 500 mg	100 tab tin	1.41
nystatin	pes 100 000 IU	15 pess box	1.09
oral rehydration salts	pkt 1 litre	1 litre pkt	0.04
paracetamol	tab 500 mg	1000 tab tin	2.60
pethidine	inj 100 mg/2ml amp	10 amp box	1.00
phenobarbital	tab 50 mg	100 tab pack	0.36
phenytoin	tab 100 mg	100 tab pack	0.55
phenoxymethylpenicillin	tab 250 mg	1000 tab tin	7.51
praziquantel	tab 600 mg	1000 tab tin	376.47
probenecid	tab 500 mg	30 tab box	1.50
procaine benzylpenicillin	inj 3 MU vial (powder)	3 MU (3 g) vial	0.24
promethazine	tab 25 mg	100 tab bottle	0.34
quinine	tab 300 mg	100 tab tin	3.60
quinine	inj 300 mg/ml 2ml vial	10 vial box	0.88
Ringers solution	sol 500 ml	500 ml bottle	0.33
salbutamol	tab 4 mg	100 tab tin	1.92
senna	tab 7.5 mg	100 tab pack	2.55
spectinomycin	inj 2 g vial	10 vial box	1.00
streptomycin	inj 1 g vial (powder)	1g vial	0.10
sulfamethoxazole	tab 400 mg & 80 mg	1000 tab tin	17.00
suramin sodium	inj 1 g vial (powder)	10 vial box	5.00
tetracycline	cap 250 mg	1000 cap tin	7.90
tetracycline	oint eye 1% tube 5 g	5 mg tube	0.07
thioacetazone & isoniazid	tab 150 mg & 300 mg	1000 tab tin	6.82
vitamin A (retinol)	cap 200 000 IU	1000 cap tin	2.00
water for injection	10 ml amp	10 ml amp	0.03