

A COMPANION TO EMERGENCY MEDICINE

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BIRMINGHAM

Supplied as a Service to Medicine by Abbott Laboratories Ltd, Queenborough, Kent ME11 5EL. Telephone



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PREFACE

This pocket book is intended to be carried by Accident and Emergency staff to provide a quick reference to a range of factual material.

The data included is considered by the author to be useful in the Accident and Emergency environment. No attempt is made to provide a text and it is expected that established publications will be used to enlighten readers in subjects of which they are unfamiliar. References are provided for further reading. A great deal of factual information is accumulated by the

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department.

C.P.F. September 1985

RF - INQ 316-004c-003

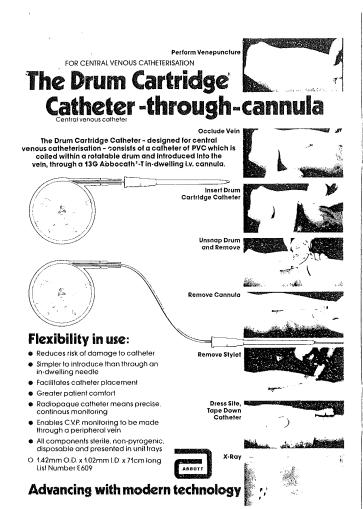
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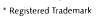


A POTENT WEAPON FOR THE IMMEDIATE TREATMENT OF PNEUMONIA

PRESCRIBING INFORMATION

Erythrocin I.V. Lactoblonate:1.0g erythromycin activity per vial as erythromycin lactobionate. Indications: prophylaxis and therapy of diseases caused by organisms sensitive to erythromycin. Dose: Adults and children: mild to moderate infections 25mg/kg/day: this may be given in divided doses. In cases of severe infection, the dose may be increased up to 50mg/kg/day. For adults this is equivalent to: 2g per day for mild to moderate infections. 4g per day for severe infections. Contraindications: sensitivity to erythromycin. Side effects: the following have been reported: diarrhoea, nausea, vomiting, abdominal pain. Precautions: impaired liver function; theophylline interaction; reversible hearing loss associated with high doses of 4g or more per day. Basic NHS price: 1g vial £6.85 P.L. Number: PL 0037/0092

Further information is available on request from: Abbott Laboratories Limited Queenborough, Kent, ME11 5EL.





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1. CARDIOPULMONARY RESUSCITATION (C.P.R.)

BASIC C.P.R.:

<u>A</u>irway Breathing Circulation

This involves checking the Airway for patency, Expired Air

Ventilation and External Cardiac Compression.

This should be instigated by the first competent person at the scene.

ADVANCED C.P.R.:
This is performed by trained personnel with the aid of Resuscitation equipment. Basic C.P.R. must continue.

The following procedures may be involved:

Intravenous therapy

Intubation

Electrocardiography Defibrillation

DRUG DOSES (approx. Adult doses):

Adrenaline *

10mls 1:10,000 i.v. (20mls 1:10,000 Via E.T.

Tube)

Atropine *

300-600ug i.v. 5mls 10% i.v.

Calcium Chloride Cyclizine

25-50mg i.v.

Diamorphine

2.5-5mg i.v.

Isoprenaline

100ug bolus i.v. then 2 mg in 500mls

5% Dextrose infusion

Lignocaine *

100mg bolus i.v. then 4mg/min infusion 0.4mg i.v. (may be repeated)

Naloxone

Sodium Bicarbonate 50mls 8.4% i.v. (titrate slowly against p.H.)

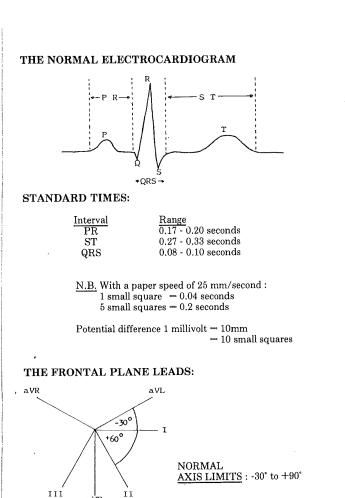
(Base deficit × Body weight (kg) = mls NaHCO₃ 8.4%)

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^{*} N.B. These drugs may be given via endotracheal route.

ELECTROMECHANICAL DISSOCIATION Remember other causes: Cardiac Tamponade Tension Pneumothorax Drugs Consider CALCIUM ISOPRENALINE ADRENALINE C.P.R. - MANAGEMENT OF RHYTHM DISTURBANCE: Consider Intracardiac Adrenaline/Pacing ISOPRENALINE BICARBONATE ADRENALINE ASYSTOLE ATROPINE VENTRICULAR FIBRILLATION 2. DEFIBRILLATE 200 Joules 3. DEFIBRILLATE 400 Joules 1. DEFIBRILLATE 200 Joules 4. DEFIBRILLATE 400 Joules 5. DEFIBRILLATE 400 Joules 6. DEFIBRILLATE 400 Joules Consider Further Lignocaine Bretylium tosylate LIGNOCAINE BOLUS BICARBONATE ADRENALINE

(The Resuscitation Council UK 1984)



N.B. Leads II, III and aVF are Inferior; I and aVL are Anterolateral.

2 HEAD INJURIES

GUIDELINES FOR THE MANAGEMENT OF PATIENTS WITH RECENT HEAD INJURY

CRITERIA FOR SKULL X-RAY AFTER RECENT HEAD INJURY:

- 1. Loss of consciousness or amnesia at any time.
- 2. Neurological symptoms or signs.
- 3. Cerebrospinal fluid or blood from the nose or ear.
- 4. Suspected penetrating injury.
- 5. Scalp bruising or swelling following blunt injury.
- 6. Alcohol intoxocation.
- 7. Difficulty in assessing the patient (eg. infants, epilepsy, stroke).

CRITERIA FOR HOSPITAL ADMISSION AFTER RECENT HEAD INJURY:

- 1. Confusion or any other depression of the level of consciousness at the time of examination.
- 2. Skull fracture.
- 3. Neurological signs, persistant vomiting or severe headache.
- 4. Serious difficulty in assessing the patient (eg. infants, epilepsy alcohol).
- 5. Co-existing medical conditions (eg. haemophilia. stroke).
- 6. Unfavourable social conditions, lack of supervision.
 - Note: Post-traumatic amnesia with full recovery is not sufficient indication for admission.

Relatives or friends of patients sent home should receive written instructions concerning indications for return to hospital.

CRITERIA FOR INFORMING THE APPROPRIATE CONSULTANT:

- 1. Fracture of the Skull in association with:
 - confusion or other depression of conscious level \underline{or} focal neurological signs \underline{or} epileptic fits.
- Confusion or other neurological disturbance persisting for longer than 12 hours (even if there is no skull fracture).
- 3. Coma continuing after resuscitation.
- 4. Depressed skull fracture.
- 5. Fracture base of skull.
- 6. Deterioration in clinical condition.

2. HEAD INJURIES (continued)

GLASGOW COMA SCALE:

Best Motor Response -	Obevs	M.6
	Localises	5
	Withdraws	4
	Abnormal Flexion	3
	Extends	2
	No Response	1
Verbal Response -	Orientated	V.5
•	Confused Conversation	4
	Inappropriate Words	3
	Incomprehensive Sounds	2
	No Response	1
Eye Opening-	Spontaneous	E.4
• •	To speech	3
	To pain	2
	No Response	1
		15)
Score-	(Total possible	15)

N.B. Studies have shown a favourable outcome in patients with a Glasgow Coma Score of 8 or more. (Kohi Y.M.: Injury 1984 Vol 16 p 25-29) However, staff responsible for recording neurological observations must be aware of the signifigance of changes in the Glasgow Coma Score and act accordingly.

EDINBURGH COMA SCALE:

. Grade-

- i Drowsy but responds to vocal command
- ii Unconscious but responds to minimal stimuli
- iii Unconscious and responds to painful stimuli
- iv Unconscious and no response

3. BURNS

PRIORITIES:

Airway (40-60% Oxygen)

Establish Time of Burn and whether Smoke was inhaled

Initial Estimation of Burn Area (Rule of Nines Adults Only)

Intravenous Line - burns of over 10% for Children - burns of over 15% for Adults

Analgesia (i.v. Morphine)

Investigations - Urea and Electrolytes

Haemoglobin and Haematocrit

Group and Cross Match Electrocardiogram

Chest X-Ray and Blood Gases

Calculate Fluid Requirement

Calculate Plasma Deficit

Establish Unit/Time Infusion

Catheterise Bladder

Assess Depth of Burn (Sensation)

Dress Burn (Avoid Repeated Inspection of Burn)

Drugs (Tetanus Toxoid, Antibiotics?)

Reassess Fluid Replacement at 1 hour

FLUID REPLACEMENT:

Requirement mls./ unit time = $\frac{\% \text{ Burn Area} \times \text{kg Weight}}{2}$

Unit Time: 4 hours 4 hours 4 hours

6 hours 6 hours

12 hours

 $\begin{aligned} \text{Plasma Deficit} &= \text{Blood vol.} \cdot \underline{\frac{\text{Blood vol.} \times \text{Haematocrit (Normal)}}{\text{Haematocrit (Actual)}}} \end{aligned}$

6

"

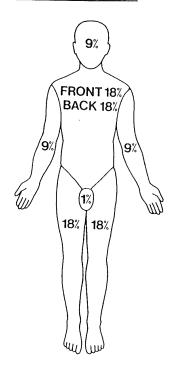
3. BURNS continued

TREATMENT OF SHOCK - TABLE OF EXPECTED VALUES

Age	Wt. i M	n Kg. F	Haem M	atocrit F	Haemoglobin % M F		Blood vol. in ml. M F		
Birth	3	.5	(80	1-	45	2	60	
6/12	,	7	3	36	8	30	5	20	
1	1	0	3	38	8	35	7	50	
2	12	2.5	3	38	8	35	9.	40	
3	1	.5	3	88	8	35	11	.20	
4	1	7	3	39	8	38	12	270	
5	1	9	3	39	8	38	1420		
6	2	2	4	10	90		1650		
7	2	4	4	40		90		1800	
8	2	6	4	0	90		1950		
9	3	0	4	10	90		2250		
10	3	2	4	10	90		2400		
• 11	3	5	41	40	93	90	26	20	
12	4	0	42	40	96	90	30	00	
13	4	5	43	40	98	90	33	70	
14	5	0	44	40	100	90	37	50	
15	54	52	44	40	100	90	4050	3800	
16	58	53	44	40	100	90	4350	4000	
17	62	54	44	40	100	90	4650	4050	
18	64	55	44	40	100	90	4800	4120	
Adult	70	60	44	40	100	90	5000	4500	

3, BURNS continued

WALLACE'S RULE OF NINES : For Adults



N.B. The surface area of the patients hand is approximately equal to 1% of the patients body surface area.

This may be useful in children where Wallace's rule of nines does not apply.

4. INTRAVENOUS FLUIDS

	Volume (mls)	450 250	400	500
	Osmolality (mmol/kg)	285-295 300	Normal	300-306 335-337
	Hd	7.4	7.3	5.7
UTIONS:	Globulin (g/1)	20-30		
MPOSITION OF COLLOID SOLUTIONS	$\frac{\text{Albumin}}{(g/1)}$	35-45 43	45(95% Alb.)	35(polygeline) 60(polysaccharide)
OF CO	□ I	00-106	112	145
SITION	$\overline{K}+$ $\overline{Ca}++$ $\overline{Cl}-\overline{Millimoles/Litre}$	3.5-5.0 2.0-2.5 1 5 2		6.26
OMPO	K+ (Millimo)		7	5.1
01	Na+	136-145 140	130-160	145
		Blood Fresh Frozen Plasma	Human Albumin 4.5% (Plasma Protein Fraction)	Haemaccel Dextran 70 in 5% Dextrose
				9

Osmolality (mmol/kg)	Normal	Normal	Normal	Normal	2000
汩	5.5—6.5	3.5—6.5	5.0 - 7.0	3.5 - 5.5	8.0 - 8.5
Dextrose (g/1)		40	_	20	
HC03-		į	29 (Lactate		1000
힘	150	30]]		
$\overline{\mathrm{K}}^{+}$ $\overline{\mathrm{Ca}}^{++}$ $\overline{\mathrm{Millimoles/Litre}}$,	24		
K+ (Millimo			c		
Na+	150	8	131		1000
	Sodium Chloride 0.9%	Sodium Chloride 0.18%	Hartmann's	Dextrose 5%	Sodium Bicarbonate 8.4%

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COMPOSITION OF CRYSTALLOID SOLUTIONS:

5. INTUBATION

ENDOTRACHEAL/TRACHEOSTOMY TUBE SIZES

5. IN I UB	ATTON							
						CONVERSION	The state of the s	
ENDOTRA	CHIAL TUB	E SIZES (ORA	AL TUBES):			METRIC	FRENCH GAUGE (FG or Char	rière)
					Internal dia	meter in mm.	External diameter measurement	
CHILDREN			TUBE SIZE		\circ	3.0	13.5	
(Uncuffed)	Birth		3.5 mm					
	3 months		4.0		1 0	3.5		
	6 months		4.0		-		15	
	9 months		4.5			4.0		
	1 years		4.5					
	2 years		5.0		\bigcirc	4.5	18	
	3 years		5.0					
	4 years		5.5		\bigcirc	5.0	N.B. 1 Endotracheal tubes	
	5 years		5.5				specified by their inte	
	6 years		6.0				diameters in mm. (Me	tric)
	7 years		6.0				2 Tracheostomy tube	s are
	8 years		6.5		\bigcirc	6.0	24 specified by both Fro	ench
	9 years		6.5				Gauge and Metric (mm)
	10 years		7.0)	0.00.1		-		bove
	11 years		7.0)	Cuffed	()	7.0	conversion)	
	12 years		7.5)	or	\sim	1.0	3 Thoracic drainage i	nhos
	13 years		7.5)	Uncuffed		7.5	30 are specified in Fr	
	14 years		8.0)		\sim	1.0	Gauge sizes only.	enen
ADJUTEC	P 1	o n	0.0			8.0	Gauge sizes only.	
ADULTS-	Female	Small Medium	8.0 mm			0.0	33	
(Cuffed)			8.5 9.0		1 '	Ĺ.		
	Male	Large Small	9.0 8.5					
	Maie	Smaii Medium	9.0		()	9.0	36	
		Large	9.0					
		Large	g .)					
NR itienr	oforable to us	e a "Portey" ti	abe if it is anticin	nated that			39	
· ·		ged (ie. Head l	•	ateu mai	()	10.0		
mitabanon n	a, oc promi	boa (ic. iicau)	injuriosj.				42	
			<i>;;</i> ;			ļ	42	
		10	,				11	

6. ANAPHALACTIC SHOCK

MANAGEMENT:

GENERAL RESUSCITATIVE MEASURES -Oxygen -Airway / Intubation / Tracheotomy

Intravenous Fluids

Circulatory Support

SPECIFIC MEASURES Adrenaline - 0.5 ml 1:1000 Deep IM or Slow IV (Monitor ECG)
Antihistamine - 10 mg IV Chlorpheniramine maleate
Steroids - 100-200 mg IV Hydrocortisone
Treat Bronchospasm - Salbutamol 0.5 mg SC or IM

0.25 mg IV (Slow) Nebulised 2.5—5.0 mg in 3ml saline

οr

or Aminophylline 250-500 mg IV (Slow) (Child 5 mg/kg)

9

CANNIII A SIZES

CAMINOLAS	IZES		
	Portal Cap Colour	Outside Diameter	Gauge
Venflon	Blue	0.8 mm	22G
	Pink	$1.0 \; \mathrm{mm}$	20G
	Green	1.2 mm	18G
	Yellow	1.4 mm	17G
	Grey	1.7 mm	16G
	Brown	2.0 mm	14G
Abbocath	Yellow	$0.6 \; \mathrm{mm}$	26G
	Purple	$0.7 \; \mathrm{mm}$	24G
	Black	$0.9 \; \mathrm{mm}$	22G
	Yellow	1.0 mm	20G
	Pink	1.3 mm	18G
	White	$1.7 \; \mathrm{mm}$	16G
	Green	$2.1 \mathrm{\ mm}$	14G

POISON Acids Acids
Antidepressants
(Tricyclics)
Arsenic
Barbiturates
Beta-blockers
Butyrophenones
(Haloperidol)
Carbon Monoxide
Cholinesterase Inhibitors
Chromates
Copper
Coumarin
Cyanide

(see British National Formulary for Doses)

Poisons Information Services:

0232-240503 021-554-3801 0222-492233 031-229-2477 0532-430715 01-407-7600 0632-325131 Belfast (T.I)
Birmingham (T.I.L)
Cardiff (T.I)
Edinburgh (T.I)
Leeds (I)
London (T.I.L)
Newcastle (T.I.L)

Key: T-Treatment facilities I-Information services L-Toxicology Laborotory

Snake Antivenom Information:

01-407-7600 051-525-3611

"ANTIDOTE"
Magnesium Hydroxide mixture
Activated Charcoal
Pyridostigmine
Dimercaprol
Activated Charcoal
Atropine/Prenalterol/Glucagon
Benztropine

100% Oxygen
Pralidoxime/Atropine
Dimercaprol
Penicillamine/Dimercaprol
Vitamin K
Oxygen/Dicobalt edate
Sodium nitrate + Sodium thiosulphate
Naloxone

Naloxone
Calcium gluconate
Dimercaprol
Protamine sulphate
Calcium gluconate gel
Sodium nitrate
Desferrioxamine
Sodium calcium edetate/Penicillamine
Disodium edetate
Dimercaprol/Penicillamine
Benztropine/Diazepam
Chlorpromazine

Naloxone N-Acetyl cysteine/Methionine Bentonite/Fullers earth Activated Charcoal

Royal Victoria Hospital Dudley Road Hospital Royal Infirmary Royal Infirmary General Infirmary Guys Hospital Royal Victoria Infirmary

7. POISONING

SOME USEFUL ANTIDOTES:

Dextropropoxyphene Fluorides Gold Heparin Hydrofluoric acid - Burns Hydrogen Sulphide Iron Lead Mercury Metoclopramide Mono-mine oxidase inhib. ors Opiates Paracetamol Paraquat Salicylates

8. ASSESSMENT OF INJURY

ABREVIATED INJURY SCALE (A.I.S.)
Injuries are scored on a scale 1-5 according to the severity with a score of 5 associated with a high risk of death. Each region of the body is scored separately according to clinical judgement.

INJURY SEVERITY SCORE (I.S.S.): Injuries are scored using the A.I.S. system taking the most significant injury in each of six regions:

- 1. Head and Neck
- 2. Face
- 3. Chest
- 4. Abdominal and Pelvic contents
- 5. Limbs and Pelvic girdle
- 6. External

The sum of the squares of the highest three injuries on the A.I.S. in different body regions gives the Injury Severity Score. Maximum score (3×25) is 75.

EXAMPLE:

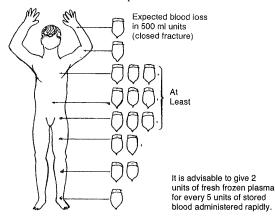
$\underline{A.I.S}$	Head Injury	Chest Injury	<u>I.S.S.</u>
1	Dizzy. No loss of consiousness	Single rib fracture	1
2	Unconscious 15 minutes	Multiple rib fractures	4
3	Unconscious 15 minutes with no neurological signs	Pneumothorax	9
4	Unconscious 15 minutes neurological signs	Flail chest	16
5	Unconscious>24 hours	Extensive lung laceration	25

N.B.: I.S.S. Less than 7-Mild injury
Between 7 and 12 - moderate injury
Greater than 12 - Severe injury

5

9. TRANSFUSION REQUIREMENTS

In the shocked patient the priority is to restore the circulating blood volume. It may be beneficial for the Haematocrit to fall to 30% therefore initial fluid resuscitation should be with crystalloid of colloid solutions. Up to 3 Litres of clear fluid may be given following which crossmatched blood will be required.



BLOOD GROUPS:

$\frac{\text{Type}}{\text{O}}$	Plasma agglutinins Anti-A, Anti-B	Universal donors	Frequency 47%
Α	Anti-B		42%
В	Anti-A		8%
AB	None	Universal recipients	3%

Rhesus

D +ve Anti-D absent D-ve Anti-D present 85% (Caucasians) 15% (Caucasians)

10. DERMATOMES

10. MYOTOMES

UPPER LIMB:

			Shoulder	Abduction and Lateral Rotation	C5
Z C 2	1)			Adduction and Medial Rotation	C 6, 7, 8
$\begin{array}{c} C2 \\ C3 \\ C4 \end{array}$	8		Elbow	Flexion Extension	C 5, 6 C 7, 8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ų		Forearm	Pronation Supination	.C 6 C 6
T6 T8			Wrist	Flexion Extension	C 6, 7 C 6, 7
T8 T10			Fingers and Thumb	Flexion Extension	C 7, 8 C 7, 8
C6			Hand (intrinsic muscles)		Т1
S2 S2 C7		LOWER LIMB:			
C7 $C8$ $C8$ $C8$ $C8$			Hip	Flexion Extension	L 2, 3 L 4, 5
		•	Knee	Extension Flexion	L 3, 4 L5, S1
L5 - \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Ankle	Dorsi-flexion Plantar-flexion	L 4,5 S 1, 2
5151		,			
16				17	

11. MUSCLE POWER

Medical Research Council Grading:

Grade 5. Normal power

Grade 4. Active movements against gravity and resistance

Grade 3. Active movements against gravity

Grade 2. Active movements, with gravity eliminated

Grade 1. Flicker of contraction

Grade 0. No contraction

NERVE INJURIES

Nerves may be damaged in one of three ways:

Contusion of the nerve results in loss of function for up Neurapraxia -

to 6 weeks.

crushing the nerve results in degeneration of the distal Axonotmesis -

axon (Wallerian degeneration). The axon tubules remain in continuity so recovery can be expected.

division of the nerve results in degeneration of the Neurotmesis distal axon. Recovery will depend on the quality of the

repair.

Axon Growth - Regenerating axons can be expected to grow at a rate

of 1 millimeter per day or 1 inch per month

19

12. FRACTURE CLASSIFICATION

GENERAL:

- Fracture in communication with skin wound.
- Fracture isolated from skin wounds or skin Open Closed

intact.

SPECIFIC FRACTURES:

PROXIMAL FEMUR -

Intracapsular: Extracapsular: Subcapital/Transcervical

Basal

Trochanteric

Garden Grades for Subcapital Femoral Neck Fractures:
Grade i One cortex disrupted on X-ray. Trabecullae angulated Grade ii Both cortices disrupted. Trabecullae in alignement Grade iii Rotation of femoral head. Slight displacement

Grade iv Severe displacement

ANKLE-Weber Classification of Fracture/Dislocations at the Ankle: (simplified):

Type A Fracture of the fibula distal to the level of the ankle joint or rupture of the lateral ligament; Medial Malleolus may be fractured.

Type B Fracture of the fibula at the level of the ankle joint - usually spiral; Medial Malleolus may be fractured or rupture of deltoid ligament.

Type C Fracture of the fibula proximal to the level of the ankle joint with fracture of Medial Malleolus or rupture of deltoid ligament.

N.B. The higher the fibular fracture the more extensive the damage to the tibio-fibular ligamentous complex and the greater the the tibio-fibular ligamentous complex and the greater the likelihood of ankle mortice instability.

EPIPHYSEAL PLATE FRACTURES-

Class 3

Salter Classification:
Class 1 A slip through the zone of provisional calcification adjacent to the growth plate
Class 2 A slip of the epiphyseal plate with an associated fracture through

A slip of the epiphyseal plate with an associated fracture through the ephiphysis. The growth plate and articular surface are

Class 4 A fracture through the metaphysis, growth plate and ephiphysis.

The articular surface is disrupted A crush fracture of the articular surface, ephiphysis and growth Class 5

N.B. Class 1 and 2 fracture separations do not generally result in growth disturbances following reduction. Class 3,4 and 5 injuries require specialist attention and often result in growth

disturbances

15. SUTURE	MATERIAL EMATERIALS:		Annual property and a second and a second a seco	D NOT IMMUNISED	KNOWN	CURSE	OURSE NN NUS SULIN
Organic -	Catgut - Plain Chromic			D MMUNISI	JNEEY UN	TONOID FULL COURSE	TOXOLD PULL COURSE Iml HUMAN ANTI-TETANUS IMMUNOGLOBULIN (250 Units)
Synthetic —	Polyglycolic acid (Multifilament) Polyglactin (Multifilament) Polydioxanone (Monofilament)	"Dexon" "Vicryl" "PDS"	a constitution of the cons	NOT (DAM		TOXO J AN IMM
NON-ABSORE Organic (Multif				RSE	EARS	OOSTER	OSTER MAN ANUS OBULIN its)
	Silk Linen		:	C TOXOID COURSE OR ROOSTER	ORE 10 Y	TOXOID BOOSTER	TOXOID BOOSTER Imi HUMAN ANTITETANUS IMMUNGITEROBULIN (250 Units)
Synthetic (Mul	ltifilament) - Polyester	"Dacron" "Ethibond"	SIXX	T0X	BEF	<u> </u>	OT A.M.
	Polyamide	"Ethiflex" "Nurolon" "Ethilon"	TETANUS PROPHYLAXIS	B TOXOUD COURSE OR ROCETER	YEARS	TOXOID BOOSTER	TOXOU BOOSTER
Synthetic (Mon		uns i p	S PR(81 OCC	9 NI	XOID E	XOID)
	Polyamide	"Nylon" "Ethilon" "Dermalene"	NU	70X(V	WITH	T0.	2
	Polyethylene Polypropylene	"Prolene"	TET	•			5
RECOMMENI	DED SUTURE SIZES:		•	A FOXOID COURSE TO BOOSTED	WITHIN 5 YEARS	NG TREATMENT	NO TREATMEN'T
Adults: 6 Children:	Face Limbs Trunk Scaip 4.0/3.0 3.0 6.0 5.0 4.0 4.0 4.0		•		WITH	ž	o _Z
Стагеп:	0.0 0.0 4.0 4.0		•	IMMUNITY CATEGORY	WOUND TYPE: 1. CLEAN	LESS THAN 6 HRS MINIMUM TISSUE DAMAGE. NO RETAINED FOREIGN BODIES. TETANUS RISK	2. DIRTY MORE THAN 6 HRS. EXTENSIVE TISSUE DAMAGE. RETAINED FOREIGN BUDIES. BURNIS.
	202	;	16.	IMMUN	WOUND 7		2. DIRTY MORE TH EXTENSI: DAMAGE. RETAINE BODIES. BURNS.
	22					23	

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17. NOTIFIABLE INFECTIOUS DISEASES

Acute encephalitis Acute meningitis Anthrax Cholera Diptheria Dysentery Food poisoning

Paratyphoid fever Plague Poliomyelitis Rabies Relapsing fever Scarlet fever Smallpox Tuberculosis

Infective hepatitis Lassa fever Marburg fever Measles

Infantile Gastroenteritis

Typhoid Viral haemorrhagic fever Whooping cough

Yellow fever

NOTIFIABLE INDUSTRIAL DISEASES

Lead poisoning Arsenic poisoning Carbon bisulphide poisoning Aniline poisoning

Mercury poisoning

Chronic benzene poisoning

Phoshorus poisoning Manganese poisoning Beryllium poisoning

Toxic jaundice

Cadmium poisoning Chrome ulceration

Toxic anaemia Epitheliomatous ulceration (Tar)

17

Anthrax

Compressed air illness

Central Public Health Laboratory:

01-205-7041

Hospitals for Tropical Diseases: East Birmingham Hospital, Birmingham Sefton General Hospital, Liverpool Hospital for Tropical Diseases, London

021-772-4311 051-733-4020 01-387-4411

18. INCUBATION PERIODS

Chickenpox (Varicella) Diptheria * Enteric fevers *

10-21 days (14-15 usually)

1-6 days

Enteric fevers * 3-23 days Infectious hepatitis (Hepatitis A) * 15-40 days Legionnaire's disease Measles (Morbilli) * Mumps Poliomyelitis *

2-10 days (7 usually) 12-14 days (8-11 usually) 14-28 days (17-18 usuallly) 5-21 days (7-14 usually)

9 days-2 years (2-8 weeks usually) 14-19 days (17-18 usually)

Rabies Rubella (German Measles) Scarlet fever * 2-5 days Whooping cough (Pertussis) * 7-14 days

N.B. "At risk" (quarantine) time - add 2 days to incubation period. *Notifiable disease in U.K.

	the	response first nths	ation d of	ery		of of		Situative services of a service servic	20. INFECTIONS AND	ANTIBIOT	<u>tcs</u>
	e at which uld be give at a better	ild be give it a better ological re d if the fir	gh measles vaccination given in the second 'life, delay until of three years or vill reduce the risk of mal severe reactions vaccine.	given, if sars of age ering nurs ling day ing in es.	negative	age should illa vaccine there is a an attack		coloridation hadroner	INFECTIOUS: CENTRAL NERVOUS SY		LIKELY ORGANISMS:
	Notes The earliest age at which the first doses should be given is 3 months, but a better	general immunological respo can be expected if the first dose is delayed to 6 months	Although measles vaccinatic can be given in the second year of life, delay until the age of three years or more will reduce the risk of occasional severe reactions to the vaccine.	These may be given, if desired, at 3 years of age to children entering nursery schools, attending day nurseries or living in children's homes.	For tuberculin-negative children	All girls of this age should be offered rubella vaccine whether or not there is a past history of an attack of rebella.		Amerikan baran da ara ara ara ara ara ara ara ara ara	Acute Pyogenic Meningitis:	Neonates Adults	Escherichia coli Streptococci group B Haemphilus influenzae Neisseria meningitidis Pneumococcus
	ZFE.S	ಕ್ಷಜ್ಞ	58 H H S B	the scale	દૂ હ	Pa dy Refa			LOCOMOTOR SYSTEM		
	terval	terval	z.			terval ts ella		i	Acute Septic Arthritis:		Staphylococcus aureus Haemophilus influenzae Streptococci group B Neisseriae
	Interval Preferably after an interval	of 6 to 8 weeks. Preferably after an interval of 4 to 6 months	After an interval of not less than 3 weeks.			There should be an interval of not less than 3 weeks between BCG and rubella vaccination			Acute Osteomyelitis:		Staphylococcus aureus Streptococci group B Pneumococcus Haemophilus influenzae Escherichia coli
	Interval	of 6 to Prefers of 4 to	After a less th			There s of not l between vaccina	_	1	RESPIRATORY SYSTEM Otitis Media:		Pneumococcus Haemophilus influenzae
	polio polio	polio		.01			toxoic		Diptheria		Corynebacterium diptheriae
	nd oral ose) nd oral	Ascine, (First dose) Diph/Tet/Pert and oral polio vaccine, (Second dose) Diph/Tet/Pert and oral polio vaccine, (Third dose)	vacone, Csecond dose) Uph/Tet/Pet and oval vaccine, (Third dose) Measles vaccine	Diph/Tet and oral polio vaccine or Diph/Tet/Polio vaccine	BCG vaccine	Rubella vaccine	al or tetanus		Acute Epiglottitis:		Haemophilus influenzae (Viral)
ME	Vaccine Diph/Tet/Pert and oral polio vaccine. (First dose) Diph/Tet/Pert and oral polio						Polio vaccine (oral or inactivated) and tetanus toxoid		Chronic Bronchitis:		Haemophilus influenzae Pneumococcus
RAM	Vaccine Diph/To vaccine. Diph/To						Polio va inactiva		Whooping Cough:		Bordetella pertussis
19. IMMUNISATION PROGRAMME	Age During the first year of life		During the second year of life At 5 years of age or school entry		Between 10 and 13 years of age		:	: .	Pneumonia	Lobar Bronchial	Pneumococcus Pneumococcus Staphylococcus aureus Haemophilus influenzae Mycoplasma pneumoniae
					and 13 y	All girls aged 11 to 13 years	At 15 to 19 years of age or on leaving school		Legionnaires' Disease:		Legionella pneumophila
MW	g the j		the :	ears o		is age.	to 19		Tuberculosis:		Mycobacterium tuberculosi
19. IN	Age During		During	At 5 y entry			At 15 t on leav		CARDIOVASCULAR SYSTEM Endocarditis:	<u>rem</u>	Streptococcus viridans Streptococcus faecalis Staphylococcus aureus
				26	;	,				2	Staphylococcus aureus

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BLANK PAGE FOR PERSONAL NOTES

INFECTIONS continued

GASTROINTESTINAL SYSTEM Cholera:

Dysentery:

Enteric Fever:

Typhoid Paratyphoid

Food Poisoning:

Infantile Gastroenteritis:

GENITOURINARY SYSTEM Urinary Tract Infection:

Salpingitis:

Epididymitis:

Non-specific Urethritis:

Gonorrhoea

Syphilis:

SKIN AND SOFT TISSUES

Impetigo:

Erysipelas: Gas Gangrene: Human Bites and Dog Bites:

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Vibrio cholerae

Shigellae

Salmonella typhi Salmonella paratyphi

Salmonella typhimurium Campylobacter

Escherichia coli (Serotypes O and B)

Escherichia coli

Proteus
Pseudomonas
Klebsiella
Staphylococcus saprophyticus
Streptococcus faecalis

Escherichia coli Streptococcus faecalis Chlamydia trachomatis Neisseria gonorrhoeae Mycobacterium tuberculosis

Escherichia coli Streptococci Staphylococci Neisseria gonorrhoeae Mycobacterium tuberculosis

Chlamydia trachomatis

Neisseria gonorrhoeae

Treponema pallidum

Staphylococcus aureus Streptococci group B

Streptococci group B Clostridium welchii

Staphylococcus aureus Streptococci group A Corynebacterium Bacteroides Streptococci Pasteurella multocida

ANTIBIOTIC SPECTRA

KEY TO ANTIBIOTIC SPECTRA

- 1~ Almost 100% of strains are sensitive
- 2 50-90% of strains are sensitive
- 3 10-50% of strains are sensitive
- ${\bf R}\,$ Resistant
- $^{*}~$ Penicillinase producers are Resistant

Na- Not applicable

 $\underline{N.B.}$ When it is necessary to begin 'blind' treatment, specimens should be collected and then the most appropriate drug prescribed; this way then be altered in the light of sensitivity tests.

Source.

Data on File
Dept of Microbiology
Dudley Rd Hospital
Birmingham

	Benzyl Penicilin	Erythromycin	Ampicillin	Cephalexin	Tetracycline	Trimethoprim	Flu/cloxacillin	Clindamycin	Gentamicin	Chloramphenicol	Nitrofurantoin	Nalidixic acid	Metronidazole	
Staphylococcus aureus	3/R*	ι	3/R*	2	2	2	1	1	1	1	R	R	R	
Streptococcus group B	1	1	i	1	2	2	3	1	R	1	Na	Na	R	
Streptococcus viridans	1	1	1	1	2	1	1	1	R	ı	Na	Na	R	
Streptococcus faecalis	3	2	1	R	2	2	R	R	R	1	Na	Nε	R	
Pneumococcus	1	1	i	1	2	2	1	1	R	1	Na	Na	R	
Mycoplasma pneumoniae	R	1	R	R	1		R							
Legionella pneumophila		1												
Meningococcus (Neisseria)	1	1	1	1	1	R	Na	3	R	1	Na	Na	R	
Neisseria gonorrhoeae	1*	1	1	1	1	R	Na	3	R	1	Na	Na	R	
Clostridium welchii	1	1	1	1	2		1	1	R	2	R	R	I	
Escherichía coli	R	R	2	2	2	1	R	R	1	1	1	1	R	
Enterobacter	R	R	R	R	3	2	R	R	1	I	1	1	R	
Proteus	R	R	2	2	2	2	R	R	1	1	R	ı	R	
Pseudomons	R	R	R	R	R	R	R	R	1	R	R	R	R	
Klebsiella	R	R	3	2	2	2	R	R	1	1	ı	1	R	
Salmonella typhi	R	R	2	Na	Na	i	R	R	Na	ı	Na	Na	R	
Haemophilus influenzae	3	2	2	R	2	ı	R	2	1	1	Na	Na	R	
Bacteroides	3	2	3	R	2	R	R	1	R	1	Na	Na	1	
Treponema pallidum	1	1	'n	1										
Chlamydia trachomatis	R	1	R	R	1								R	

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21. NORMAL HAEMATOLOGICAL AND BIOCHEMICAL VALUES

HAEMATOLOGY - ADULT VALUES	
Haemoglobin Male	13.0-18.0 g/dl
Female	11.5-16.5 g/dl
MCHC	32-36 g/dl
MCH	27-31 pg
MCV	76-92 fl
Haematocrit Male	40-54%
Female	37-47%
Red Cell Count Male	$4.4-6.1\times10^{12}/1$
Female	$4.2 - 5.4 \times 10^{12} / 1$
Total White Cell Count	4.0-11.0×10 ⁹ /1
Neutrophils	$2.5 - 7.5 \times 10^{9} / 1$
Lymphocytes	$1.5 - 4.0 \times 10^{9} / 1$
Platelets	150-400×10 ⁹ /1
Serum Iron Males	13-32 umol/l
Females	10-29 umol/l
TIBC	45-70 umol/l
Serum B ₁₂	150-900 ng/l
Serum Folate	2-14 ug/l
Red Cell Folate	200-800 ug/l
Sedimentation Rate Males	0-12 mm/hr
Females	0-20 mm/hr
Bleeding Time (template)	3-9 minutes
Fibrinogen	200-400 mg%
Prothrombin Time	12-14 seconds
Partial Thromboplastin Time	38-48 seconds
BLOOD GASES:	
Arterial Oxygen (P ₂ O ₂)	>10.6 kPa
Arterial Carbon Dioxide (PaCO2)	4.7-6.0 kPa
1 Trotter Out Dollarde (1 aCO2)	TI UIV NI d

Arterial Oxygen (P_aO₂) Arterial Carbon Dioxide (P_aCO₂) Arterial pH (H⁺)

7.35-7.45 (35-45 nmol/l) Base Excess
Venous P_aCO₂
Standard Bicarbonate
Carboxyhaemaglobin (venous) + 2 mmol/l √10.6 kPa 24-32 mmol/l <6% saturation >20% saturation Toxic

BIOCHEMICAL VALUES

Amylase Albumin 70-300 IU/l 35-50 g/l 21-28 mmol/l <17 umol/l 2.2-2.6 mmol/l 95-110 mmol/l Bicarbonate Bilirubin Calcium (total) Chloride Cholesterol
Creatinine
Ethanol-Legal limit UK
Glucose (fasting) 3.1-6.5 mmol/l 44-133 umol/l 17.4 mmol/l (80 mg/100 ml blood) 3.3-5.6 mmol/1 0.3-1.8 umol/1 (-30 ug/dl) 0.7-1.0 mmol/1 280-297 mOsm/kg 0.8-1.45 mmol/1 Lead Magnesium Osmolality Phosphate (inorganic) Potassium 3.3-5.8 mmol/l Protein (total) Sodium 63-84 g/l 130-150 mmol/l Thyroxine 50-150 nmol/lTSH <6 mU/l Urea 3.0-8.3 mmol/l 0.12-0.36 mmol/l 12-20 umol/l Uric acid Zinc

DIAGNOSTIC ENZYMES: Acid phosphatase (total) Alkaline phosphatase Aspartate aminotransferase (AST) Creatine kinase (CK) 1-8 IU/l 20-130 IU/l <45 IU/l <150 IU/l CK isoenzyme MB <25 IU/l Gamma glutamyl transpeptidase (GT) Lactate dehydrogenase (LDH) Total 440 IU/l 4500 IU/l Heart <300 IU/l 5' Nucleotidase 2-15 IU/l

The above values may vary slightly between laboratories.

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22. THE 1983 MENTAL HEALTH ACT

PART II: COMPULSORY ADMISSION TO HOSPITAL

SECTION 2*

- Admission for Assessment

Duration

- Up to 28 days

Application - Nearest relative or Approved Social Worker either of whom must have seen the patient within 14

Grounds

- Mental disorder of a degree and nature warranting detention in hospital for assessment (or assessment followed by medical treatment) in the interest of the health and safety of the patient or

for the protection of others.

Recommendations

An approved Medical Practitioner (usually a Consultant Psychiatrist) and a Medical Practitioner acquainted with the patient

(preferably the G.P.).

SECTION 3

- Admission for Treatment

Duration

- Up to 6 months.

Application - Nearest relative or Approved Social Worker either of whom must have seen the patient within 14

Grounds

- Mental illness or severe mental impairment or psychopathic disorder of a nature of degree that makes it appropriate to receive hospital treatment and such treatment is likely to alleviate or prevent deteriation of the condition. Detention must be necessary in the interest of the patients health and safety (or for the protection of others) and treatment cannot be provided unless he is detained under this section.

Recommendations

An approved Medical Practitioner (usually a Consultant Psychiatrist) and a Medical Practitioner acquainted with the patient

(preferably the G.P.).

SECTION 2 is the preferred method of compulsory admission. The Approved Social Worker must be involved at an early stage. The Social Worker will have a list of those doctors approved

under Section 12 of the Act.

The appropriate hospital is usually the mental hospital in whose catchment area the patient resides.

SECTION 4

- Emergency admission for Assessment

Duration

- Nearest relative or Approved Social Worker either Application of whom must have seen the patient within 24

hours

Grounds

- Mental disorder of a degree and nature warranting detention in hospital for assessment in the interest of the health and safety of the patient or for the protection of others, and is of such urgent necessity that compliance with section 2 would cause undesirable delay.

Recommendations

A Medical Practitioner acquainted with the patient (preferably the G.P.) or another approved doctor who must have seen the patient within the previous 24 hours.

SECTIONS 135 and 136

Designed to allow an Approved Social Worker (135) or a Police officer (136) to remove anyone considered to be suffering from a Mental disorder, from a public place to a 'Place of Safety'. This may be a police station or any hospital. Further appropriate action can then be taken e.g. Section

SUMMARY:

Full provisions of the act are rather complicated but in practice Accident and Emergency staff are only likely to be involved in voluntary (informal)

admission or Section 2.

A police officer or social worker may bring a patient to the Accident and Emergency

Department under Section 135/6.
Emergency admission (Section 4) will rarely be used unless the need is overwhelming and there is

no other alternative.

1986			1987		
	January	February	**	_	.
Monday	6 13 20 27	Monday 3 10 17 2		January	February
Tuesday	7 14 21 28	Tuesday 4 11 18 2	Monday	5 12 19 26	Monday 2 9 16 23
Wednesday	1 8 15 22 29	Wednesday 5 12 19 2	Tuesday	6 13 20 27	Tuesday 3 10 17 24
Thursday	2 9 16 23 30	Thursday 6 13 20 2		7 14 21 28	Wednesday 4 11 18 25
Friday	3 10 17 24 31	Friday 7 14 21 2		1 8 15 22 29	Thursday 5 12 19 26
Saturday	4 11 18 25	Saturday 1 8 15 22	Friday	2 9 16 23 30	Friday 6 13 20 27
Sunday	5 12 19 26	Sunday 2 9 16 23	Saturday Sunday	3 10 17 24 31 4 11 18 25	Saturday 7 14 21 28 Sunday 1 8 15 22
	March	April	Sunday		
Monday	3 10 17 24 31	Menday 7 14 21 2		March	April
Tuesday	4 11 18 25	Tuesday 1 8 15 22 2		2 9 16 23 30	Monday 6 13 20 27
Wednesday	5 12 19 26	Wednesday 2 9 16 23 3		3 10 17 24 31	Tuesday 7 14 21 28
Thursday	6 13 20 27	Thursday 3 10 17 24	Wednesday	4 11 18 25	Wednesday 1 8 15 22 29
Friday	7 14 21 28	Friday 4 11 18 25	Thursday	5 12 19 26	Thursday 2 9 16 23 30
Saturday	1 8 15 22 29		Friday	6 13 20 27	Friday 3 10 17 24
Sunday	2 9 16 23 30	Saturday 5 12 19 26	Saturday	7 14 21 28	Saturday 4 11 18 25
Sunday	2 9 16 23 30	Sunday 6 13 20 27	Sunday	1 8 15 22 29	Sunday 5 12 19 26
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Monday	5 12 19 26	Monday 2 9 16 2		4 11 18 25	Monday 1 8 15 22 29
Tuesday	6 13 20 27	Tuesday 3 10 17 2	Tuesday	5 12 19 26	Tuesday 2 9 16 23 30
Wednesday	7 14 21 28	Wednesday 4 11 18 2	Wadnarday	6 13 20 27	Wednesday 3 10 17 24
Chursday	1 8 15 22 29	Thursday 5 12 19 2	Thursday	7 14 21 28	Thursday 4 11 18 25
riday	2 9 16 23 30	Friday 6 13 20 2	Friday	1 8 15 22 29	Friday 5 12 19 26
Saturday	3 10 17 24 31	Saturday 7 14 21 2	Saturday	2 9 16 23 30	Saturday 6 13 20 27
Sunday	4 11 18 25	Sunday 1 8 15 22 2	Sunday	3 10 17 24 31	Sunday 7 14 21 28
	July	August		July	August
Monday	7 14 21 28	Monday 4 11 18 2	343	6 13 20 27	Monday 3 10 17 24
Tuesday	1 8 15 22 29	Tuesday 5 12 19 2	Monday	7 14 21 28	Tuesday 4 11 18 25
Wednesday	2 9 16 23 30	Wednesday 6 13 20 2	Tuesday		Wednesday 5 12 19 26
Thursday	3 10 17 24 31	Thursday 7 14 21 2	Wednesday		
Friday	4 11 18 25	Friday 1 8 15 22 2	Inursday	2 9 16 23 30	
Saturday	5 12 19 26	Saturday 2 9 16 23 3	Friday	3 10 17 24 31	
Sunday	6 13 20 27	Sunday 3 10 17 24 3	Saturday	4 11 18 25	Saturday 1 8 15 22 29
•		5 15 1, 31 5	Sunday.	5 12 19 26	Sunday 2 9 16 23 30
Monday	September 1 8 15 22 29	October Monday 6 13 20 2		September	October
Cuesday	2 9 16 23 30	Tuesday 7 14 21 2	Monday	7 14 21 28	Monday 5 12 19 26
Vednesday	3 10 17 24	Wednesday 1 8 15 22 2		1 8 15 22 29	Tuesday 6 13 20 27
Thursday	4 11 18 25			2 9 16 23 30	Wednesday 7 14 21 28
Friday	5 12 19 26			3 10 17 24	Thursday 1 8 15 22 29
Saturday	6 13 20 27		Friday	4 11 18 25	Friday 2 9 16 23 30
Sunday	7 14 21 28	Saturday 4 11 18 25	Saturday	5 12 19 26	Saturday 3 10 17 24 31
dinday	7 14 21 28	Sunday 5 12 19 26	Sunday	6 13 20 27	Sunday 4 11 18 25
V 1	November	December	<u> </u>	November	December
Monday	3 10 17 24	Monday 1 8 15 22 2		2 9 16 23 30	Monday 7 14 21 28
l'uesday	4 11 18 25	Tuesday 2 9 16 23 3	Tuenday	3 10 17 24	Tuesday 1 8 15 22 29
Wednesday	5 12 19 26	Wednesday 3 10 17 24 3	Wednesday	4 11 18 25	Wednesday 2 9 16 23 30
hursday	6 13 20 27	Thursday 4 11 18 25	Thursday	5 12 19 26	Thursday 3 10 17 24 31
-ida	7 14 21 28	Friday 5 12 19 26	I nursday Friday	6 13 20 27	Friday 4 11 18 25
riuay					PRICES 4 11 10 75
Friday Saturday	1 8 15 22 29	Saturday 5, 13 20 27			
	1 8 15 22 29 2 9 16 23 30 36	Sunday 7 14 21 28	Saturday Sunday	7 14 21 28 1 8 15 22 29	Saturday 5 12 19 26 Sunday 6 13 20 27

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Z4.	CONVERSION	TABLEKH	OGRAMS/STONES

KILOGRAMS	STONES
32	5
38	6
45	7
51	8
57	9
64	10
70	11
76	12
83	13
89	14
95	15
102	16
108	17
115	18
121	19
127	20

25. TELEPHONE NUMBERS

Accident and Emergency	
Administration	
Blood Bank	
Clinical Chemistry	
Dining Room	
Haematology	
Immunology	
Laundry	
Medical Records	
Mortuary	
Occupational Therapy	
Outpatients	
Pathology (History)	
Pharmacy	
Physiotherapy	
Residences	
Staff Location	
Theatres	
Toxicology	
X Ray	
Wards	
walus	
•	
Intensive Care	
Coronary Care	
Emergency Numbers:	
CARDIAC ARREST	
FIRE	
Personal Numbers:	
	30

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26, REFERENCES AND RECOMMENDED READING

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