
Chapter 3 Pre-hospital Care

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EXECUTIVE SUMMARY

- There has been an increase in the number of patients transported by the medical retrieval team to Liverpool Hospital between 1995 and 1999. The number however remains small compared to those brought by the ambulance service.
- The number of patients who bypass other hospitals to come to Liverpool Hospital has remained static at approximately 40% during the 5 years.
- The number of prehospital intubations for trauma patients on an annual basis is small.
- The use of M.A.S.T. suits in penetrating trauma has almost disappeared.
- There is an increasing use of M.A.S.T. suit in blunt trauma in 1999.
- Stratified for injury severity score, M.A.S.T. suit prolongs scene time.
- The time elapsed during intrahospital trauma transfer is predominantly taken up by the time at referring hospital.

MODE OF ARRIVAL



Helipad on roof of Liverpool Hospital with view of original hospital in background



Ambulance entrance to Liverpool Hospital on a busy day.

PREHOSPITAL TRIAGE OF TRAUMA FOR ADULTS AND CHILDREN (PROTOCOL 4)

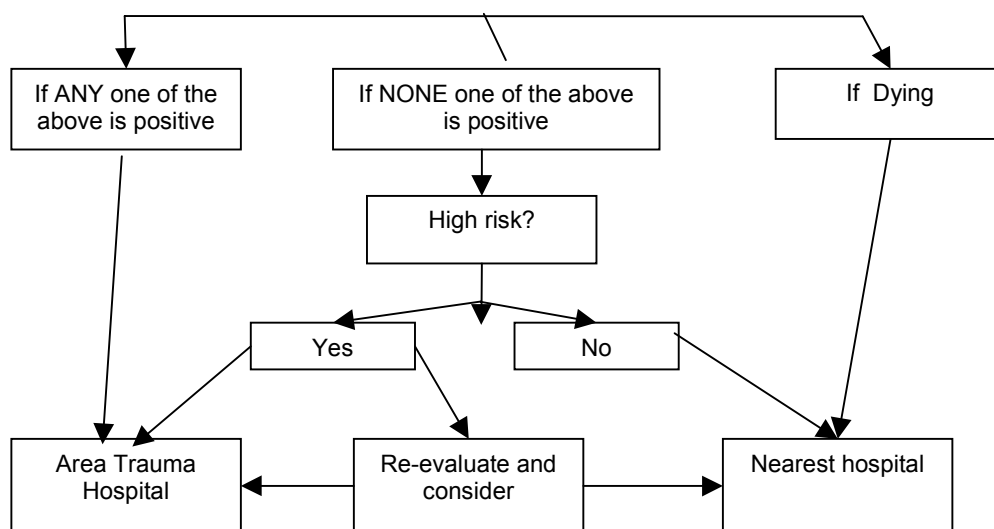
Protocols give guidance to ambulance officers on where to take patients, depending on their observations and conclusions on severity of injury. They also give guidance for instances where immediate transport is not possible, such as when a patient is trapped in a crashed vehicle. Minimum standards for transport of the critically ill have been set by the Australian and the New Zealand College of Anaesthetics and Australasian College for Emergency Medicine (1992, p23).

VITAL SIGNS

1. Respiratory distress – rate <10 or >30/cyanosis
2. Systolic blood pressure <90 or no palpable radial pulse in children
3. Requires at least “shake and shout” to arouse or falling level of consciousness in children.

INJURIES

1. Serious trauma to any body region
2. Burns partial or full thickness >20% in adults or >10% in children



Ambulance Protocol 4 (adapted from; “Protocols, Pharmacologies, General Notes” Ambulance Service of NSW Jan 1994) relates to pre-hospital triage of trauma for adults and children, and outlines the following considerations when deciding which hospital to deliver patient:

If an ambulance officer considers a critically ill patient will not survive the time of transport to an Area Trauma Hospital, the patient should be taken to the nearest hospital en route for urgent resuscitation.

1. If a patient has both a serious injury (complaint types are specified in protocol) **and** the time from early assessment to arrival at hospital is expected to be greater than 1 hour, contact co-ordination centre early after initial assessment of the situation and receive advice regarding availability of paramedic or medical response team.
2. If the patient is apparently not seriously injured but has been involved in a mechanism of injury which is high risk, then the officers should re-evaluate the situation and decide at their own discretion whether to take the patient to an Major Trauma Service or nearest hospital.

Definition of Serious Injury

Penetrating injury of: Head, Neck, Chest, Abdomen, Perineum or Back

Head region: 1 or 2 dilated pupils, open head injury or severe facial injury

Chest region: Subcutaneous emphysema or major flail segment

Abdomen: Distension or Rigidity

Spinal: Weakness or Sensory loss

Limb: Vascular injury with ischaemia of limb, Amputation, Crush injury of limb or trunk, or bilateral femur fractures

High Risk Situations

1. Vehicular crash >60km/hour
2. Major deformation of vehicle
3. Fatal injury in same vehicle
4. Fall from height >5metres
5. Patient ejected from vehicle
6. Child cyclist/pedestrian hit by vehicle>30km/hour
7. Injuries to multiple body regions

Ambulance Transport Decision Codes

Pre-Hospital Transport Decision Code refers to the ambulance criteria (as defined by the Department of Health) by which ambulance officers decides to which hospital the patient should be transported:

The codes are:

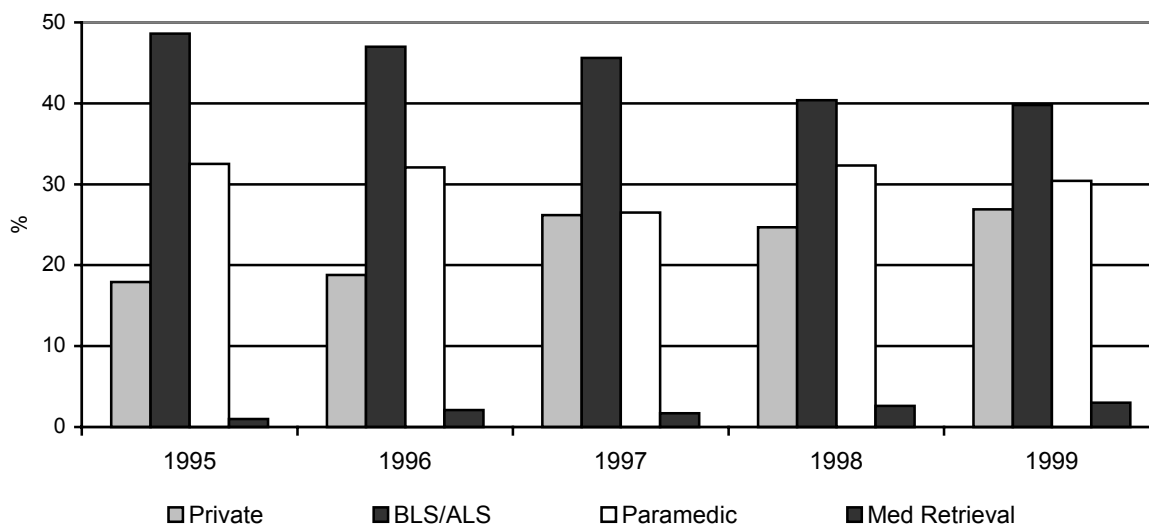
- 1 Minor Injury is minor and nearest hospital is an Urban Trauma Service (e.g. Camden)
- 2 Minor Injury is minor and nearest hospital is a Major Trauma Service (ie Liverpool)
- 3 Minor Injury is minor but MTS has restricted service so bypass to Urban Trauma Service
- 4 Serious Injury is serious, bypass nearer Urban take patient to Major Trauma Service
- 5 Serious Injury is serious and Major Trauma Service is nearest
- 6 Serious Injury is serious Major Trauma Service is closed eg disaster (very rare)
- 7 Dying To nearest hospital (e.g. airway obstruction)

The term "serious" is used in the pre-hospital setting to identify the potential for serious injury in a patient based on mechanism of injury, history or vital signs at scene. It should not be confused with a "serious" injury based on Injury Severity Score of 16 or more. Similarly the term "minor" in pre-hospital setting is not related to the Minor or Major category injuries in the Trauma Registry.

Mode of Arrival

Of the 6,654 major category admissions to hospitals in SWSAHS, 4903 (73.7%) had prehospital care from ambulance officers (Basic Life Support, Advanced Life Support or Paramedics) or Medical Retrieval Team (either by road or helicopter). 3162 (83.3%) of patients with major injuries from trauma that were delivered to Liverpool Hospital received pre-hospital care.

Mode of Arrival to Liverpool Hospital n=6654



Level of Training of Attending Officer

- Level 1 Probationer
- Level 2 Basic Life Support
- Level 3 Basic Life Support
- Level 4 Advance Life Support
- Level 5 Paramedic

Pre-hospital Transport Decisions

3,051 of the patients admitted to Liverpool Hospital had pre-hospital intervention. The tables below represent the mode of transport to hospital and whether they were came directly to Liverpool Hospital or were transfers from another hospital. Also for the 2,788 patients receiving pre-hospital care, we show the decision the ambulance officers made regarding which hospital to take the patients. Please note that for 30 patients the transport decision code was not documented.

Mode of Transport for Trauma Admissions to Liverpool Hospital

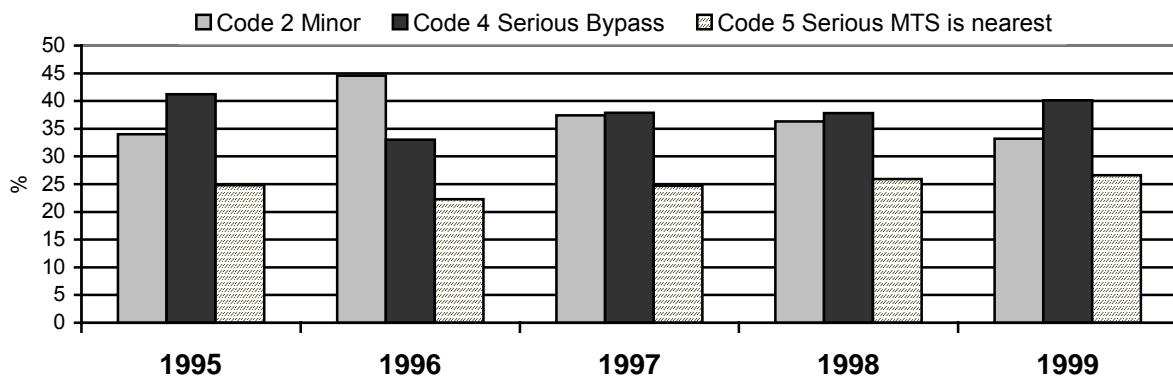
Mode of Transport	Direct		From SWSAHS		From Other AHS		Total	
	N	%	N	%	N	%	N	%
Private	438	13.3	11	2.7	4	5.1	453	11.9
Ambulance BLS/ALS	1270	38.4	233	56.8	18	22.8	1521	40.1
Paramedic Ambulance	1480	44.8	77	18.8	5	6.3	1562	41.2
Medical Retrieval	38	1.1	69	16.8	30	38.0	137	3.6
Other	79	2.4	20	4.9	22	27.8	121	3.2
Total	3305	100	410	100	79	100	3794	100

Of the 3,305 patients admitted to Liverpool Hospital directly (not transferred from another hospital), 2758 (84.4%) were transported by ambulance. The transport decision by the attending officers for these patients is available for 2758 of these patients.

Transport Decision Codes for All Patients Brought Directly to Liverpool Hospital

Year	1995		1996		1997		1998		1999		Total	
Code 2 - Minor MTS is nearest	160	34.0	254	44.6	209	37.4	222	36.3	182	33.2	1,027	37.2
Code 4 - Serious Bypass to MTS	194	41.2	188	33.0	212	37.9	231	37.8	220	40.1	1,045	37.9
Code 5 -Serious MTS is nearest	117	24.8	127	22.3	138	24.7	158	25.9	146	26.6	686	24.9
Total	471	100	569	100	559	100	611	100	548	100	2,758	100

Transport Decision Codes: Direct to Liverpool Hospital



Pre-hospital Cardio-Pulmonary Resuscitation

During the 5 years from 1995 to 1999, 49 patients received cardio-pulmonary resuscitation during the pre-hospital phase. Only 2 of these patients survived the remaining 47 died. One of the survivors was a 20 year old man who suffered cardiac arrest following electrocution and the other was a 41 years old man who sustained a small ventriculo-septal defect from a stab wound to the chest.

Ambulance Transport Decision for Patients Receiving CPR

Decision Code	1995	1996	1997	1998	1999	Total
Code 4 - Bypass	2	4	4	2	1	13
Code 5 - serious Liverpool is nearest	3	8	7	3	1	22
Code 7 Dying to nearest hospital	2	4	1	2	5	14
Total	7	16	12	7	7	49

Predominant Injury Body Region for Patients administered CPR in Pre-Hospital Setting

Body Region	Highest Score for Body Region of Injury			Total
	4 Severe	5 Critical	6 Maximum	
Head	2	12	5	19
Thorax	2	8	3	13
Abdomen and Pelvic	0	4	1	5
Spine	0	2	2	4
Head & other	1	2	0	3
Head & spine	0	1	0	1
Lower Extremity	2	0	0	2
External, burns, other	0	0	2	2
Total	7	29	13	49

Age group and Outcome of Patients Receiving CPR Pre -hospital

Age Group of Patient	Survived	Died	Total
1 to 9	0	7	7
10 to 19	0	8	9
20 to 29	1	14	15
30 to 39	0	6	6
40 to 49	1	4	5
50 to 59	0	2	2
60 to 69	0	0	0
70+	0	5	5
Total	2	47	49

Airway Intervention for Patients Receiving CPR Pre -hospital

YEAR	1995	1996	1997	1998	1999	Total
Oxygen	1	1	0	0	0	2
Guedell	0	2	1	0	0	3
Bagged	1	5	3	2	1	12
ETT*	5	8	8	5	6	32
Total	7	16	12	7	7	49

Pre-hospital Airway Control

YEAR	1995	%	1996	%	1997	%	1998	%	1999	%
Oxygen	583	76.6	580	71.3	639	65.1	646	59.8	604	58.4
Guedell	8	1.1	9	1.2	13	1.2	15	1.3	7	0.7
Bagged	25	3.3	35	4.6	24	2.4	31	3	28	2.8
ETT*	15	2	11	1.5	19	1.9	11	1	13	1.3
Nil	80	10.5	132	16.2	233	23.8	253	23.4	164	15.9
Not Doc	50	6.6	42	5.2	54	5.5	124	11.5	217	21
Total	761	100	812	100	981	100	1080	100	1034	100

ETT* refers to patients who were intubated either with Endotracheal tube or Nasotracheal tube.

4,669 patients received pre-hospital care and were transported to the SWSAHS hospitals. The following table shows the level of skills of the attending officer for the 268 patients who had airway intervention more intensive than oxygen only.

Level of Training for Attending Officer for Patients with Airway Intervention

Pre-hospital Care	Guedel	%	Bag/Mask	%	ETT	%	Total
Basic Life Support	7	13.5	18	12.6	0	0	25
Advanced Life Support	14	26.9	14	9.8	0	0	28
Paramedic	31	59.6	111	77.6	57	82.6	199
Medical Officer	0	0	0	0	12	17.4	12
Total	52	100	143	100	69	100	264

Age Groups of Patients Receiving Airway Intervention

Age groups	Guedel	%	Bag Mask	%	ETT	%	Total	%
<10	3	13.6	12	54.5	7	31.8	22	100
10 to 19	9	19.2	29	61.7	9	19.2	47	100
20 to 29	17	19.5	46	52.9	23	26.4	87	100
30 to 39	6	15.4	22	56.4	11	28.2	39	100
40 to 59	9	19.2	24	51.1	11	23.4	47	100
60 to 91	8	30.8	10	38.5	8	30.7	26	100
Total	52	19.7	143	54.2	69	26.2	264	100

Personnel Performing Endotracheal Intubation

Year	1995	%	1996	%	1997	%	1998	%	1999	%	Total
Paramedic	14	93.3	11	100	16	84.2	6	54.5	10	76.9	57
Doctor MRT	1	6.7	0	0	3	15.8	5	45.5	3	23.1	12
Total	15	100	11	100	19	100	11	100	13	100	69

Pre-hospital Fluid administration Major Category Injuries 1995 – 1999

Number of Patients Receiving Intravenous Fluid in Pre-hospital Setting

Year	1995	%	1996	%	1997	%	1998	%	1999	%	Total
< 500mL	63	25.8	50	24.2	53	25.1	72	26.6	59	26	297
≥ 500mL	181	74.2	157	75.8	158	74.9	199	73.4	168	74	863
Total	244	100	207	100	211	100	271	100	227	100	1160

Level of Training for Attending Officer Administering IV Fluid to Patients

Year	1995	%	1996	%	1997	%	1998	%	1999	%	Total	%
Basic BLS	11	4.5	3	1.5	3	1.4	5	1.8	6	2.6	28	2.4
Advanced ALS	57	23.4	56	27.1	49	23.2	49	18.0	29	12.8	240	20.7
Paramedic	174	71.3	148	71.5	148	70.1	201	74.2	166	73.1	837	72.2
Medical MRT	2	0.82	0	0	5	2.4	15	5.5	11	4.8	33	2.8
Not documented	0	0	0	0	6	2.8	1	0.4	15	6.6	22	1.9
Total	244	100	207	100	211	100	271	100	227	100	1160	100

Volume of Fluid Administered Pre-hospital to Hypotensive and Normotensive Patients

The following tables represent volume of fluid administered for blunt and penetrating trauma where there was a recorded blood pressure. 589 patients were hypotensive at scene (Systolic BP <100) according to first recorded observation of ambulance officers. Of these 406 (68.9%) had intravenous cannula inserted and fluid administered. 709 patients were normotensive (had Systolic BP ≥100) and had IV cannula inserted. The tables below represent firstly the patients who were hypotensive with blunt or penetrating trauma and then normotensive patients with blunt or penetrating trauma and their intravenous fluid volume administered.

Hypotensive Patients Following Blunt Trauma: Intravenous Fluid Volume Administered

Blunt trauma	1995	%	1996	%	1997	%	1998	%	1999	%	Total	%
<500 mL	14	12.4	10	12	10	10.8	13	13	9	10.1	56	11.7
≥500 mL	67	59.3	48	57.8	49	52.7	60	60	39	43.8	263	55
No cannula	32	28.3	25	30.1	34	36.6	27	27	41	46.1	159	33.3
Total	113	100	83	100	93	100	100	100	89	100	478	100

Hypotensive Patients Following Penetrating Trauma: IV Fluid Volume Administered

Penetrating	1995	%	1996	%	1997	%	1998	%	1999	%	Total	%
<500 mL	0	0	1	4.2	2	8	1	4.3	1	5.3	5	4.5
≥500 mL	15	75	19	79.2	18	72	20	87	10	52.6	82	73.9
No cannula	5	25	4	16.7	5	20	2	8.7	8	42.1	24	21.6
Total	20	100	24	100	25	100	23	100	19	100	111	100

Normotensive Patients Following Blunt Trauma: Intravenous Fluid Volume Administered

Blunt	1995	%	1996	%	1997	%	1998	%	1999	%	Total	%
<500 mL	40	32.3	34	33.3	36	33	49	33.8	43	30.1	202	32.4
≥500 mL	84	67.7	68	66.7	73	67	96	66.2	100	69.9	421	67.6
Total	124	100	102	100	109	100	145	100	143	100	623	100

Normotensive Patients Following Penetrating Trauma: IV Fluid Volume Administered

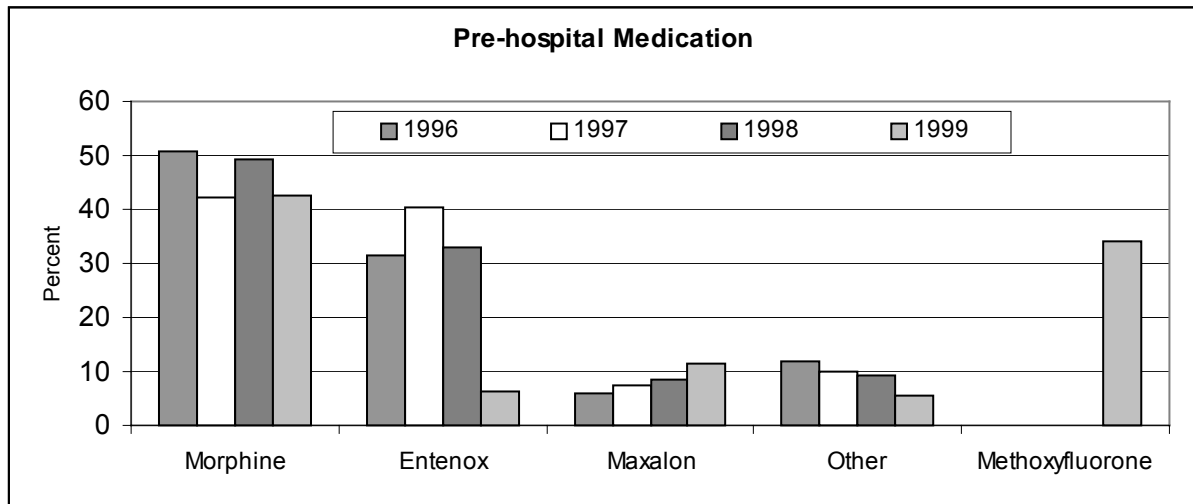
Penetrating	1995	%	1996	%	1997	%	1998	%	1999	%	Total	%
<500 mL	6	35.3	5	21.7	4	25	7	30.4	1	14.3	23	26.7
≥500 mL	11	64.7	18	78.3	12	75	16	69.6	6	85.7	63	73.3
Total	17	100	23	100	16	100	23	100	7	100	86	100

Administration of Medication in Pre-hospital Setting

Type of Drug Administered Pre-hospital to Patients Delivered to SWSAHS Hospitals

Drug	1995 (%)	1996 (%)	1997 (%)	1998 (%)	1999 (%)	Total (%)
Nil Given	44 5.8	446 55.7	669 69.3	680 64.5	566 56.3	2405 52.5
Morphine	9 1.2	105 13.1	117 12.1	189 17.9	177 17.6	597 13
Entenox	5 0.7	61 7.6	107 11.1	113 10.7	24 2.4	310 6.8
Maxalon	2 0.3	11 1.4	19 2.0	28 2.7	43 4.3	103 2.2
Methoxyfluorone	n/a *	n/a *	n/a *	n/a *	136 13.5	136 2.9
Other	0 0.0	21 2.6	27 2.8	30 2.8	21 2.1	99 2.7
No documented	697 92.1	157 19.6	26 2.7	14 1.3	38 3.8	932 20.3
Total	757 100	801 100	965 100	1054 100	1005 100	4582 100

1995* This information was not collected for patients admitted during 1995 and beginning of 1996.



Methoxyfluorone is an inhalation analgesia that came into use as a substitute for Entenox in 1999

Insertion of Intercostal Thoracocentesis in Pre-hospital Setting

During the period 1995 to 1999, 12 patients required insertion of an intercostal thoracocentesis in the pre-hospital setting. 10 of these were inserted by paramedic ambulance officers and 2 by medical officers in the field. All the patients requiring this intervention were seriously injured (ISS range 16 to 75) and only four ultimately survived.

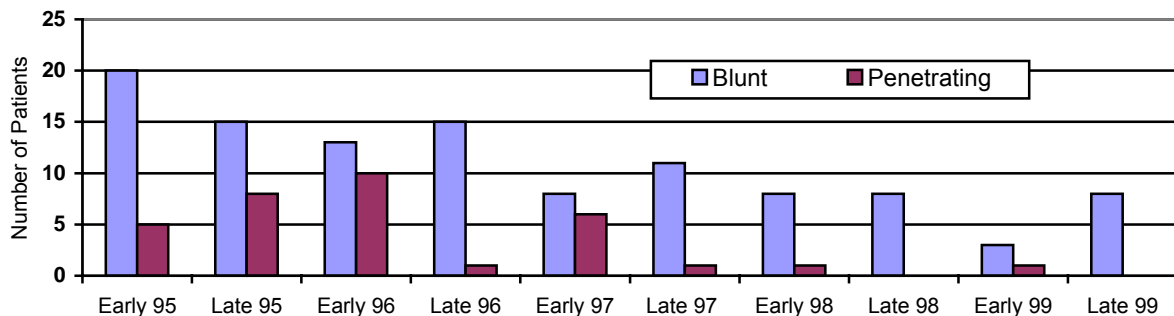
Military Anti Shock Trouser Device (MAST)

Military Anti Shock Trouser (MAST) is an inflatable device that has been used for splinting lower limb fractures or for increasing blood pressure. Use of this device is very limited and is decreasing. In October 1996 the Medical Advisory Committee of NSW Ambulance Service advised changes to the ambulance protocol concerning use of MAST. Since March 1997 protocols reflect that MAST is contraindicated for penetrating torso injuries and ruptured diaphragm.

MAST Device Application for Different Injury Severity

Injury Severity	Blunt		Penetrating		Total
	Not inflated	Inflated	Not inflated	Inflated	
1 - 4	6	2	2	3	13
5 - 8	7	1	2	0	10
9 - 15	28	16	5	6	55
16-24	8	3	3	4	18
25-49	17	8	1	7	33
50-74	4	5	0	0	9
75	0	4	0	0	4
Total	70	39	13	20	142

Six Month Trends and Type of Trauma in Use of MAST Device



Less Serious Injuries: MAST and Time at Scene by Ambulance Officers

ISS 1 to 15	# 20 mins	%	≥ 20 mins	%	Total	%
MAST not applied	2260	64.8	1149	33.0	3409	97.8
Applied not inflated	25	0.7	25	0.7	50	1.4
Inflated	10	0.3	18	0.5	28	0.8
Total	2295	65.8	1192	34.2	3487	100

More Serious Injuries: MAST and Time at Scene by Ambulance Officers

ISS 16 to 75	# 20 mins	%	≥ 20 mins	%	Total	%
MAST not applied	549	60.9	288	32.0	837	92.9
Applied not inflated	10	1.1	23	2.6	33	3.7
Inflated	14	1.6	17	1.9	31	3.4
Total	573	63.6	328	36.4	901	100

Liverpool Hospital Serious Injuries

Cases Delivered by Primary Road Ambulance from Within Urban Area Number of Cases with ISS ≥16

Trauma Triage Category	1995	%	1996	%	1997	%	1998	%	1999	%
Minor - Codes 1 to 3	15	13	35	22.3	24	14.3	23	15.5	18	12.1
Serious - Code 4 (Bypass)	55	47.8	62	39.5	81	48.2	62	41.9	70	47
Serious - Code 5 (MTS nearest)	44	38.3	58	36.9	58	34.5	61	41.2	51	34.2
Serious - Code 6	0	0	0	0	0	0	0	0	0	0
Serious - Code 7	0	0	1	0.6	0	0	0	0	0	0
Not known - form missing	0	0	0	0	3	1.8	1	0.7	7	4.7
Not recorded on the form	1	0.9	1	0.6	2	1.2	1	0.7	3	2.0
Total	115	100	157	100	168	100	148	100	149	100

Over the 5 years the number of serious injuries that were transported to Liverpool by primary road ambulance increased from 115 in 1995 to 168 in 1997 and then decreased to 148 in 1998 with similar numbers in 1999.

The following table demonstrates an increase in the number of inter-hospital transfers into Liverpool Hospital of serious injuries.

Origin and Mode of Transport for Serious Injuries to Liverpool hospital

Mode of Transport

Number of Cases with ISS ≥16

Mode of Arrival	1995	%	1996	%	1997	%	1998	%	1999	%
Primary Road Ambulance	115	75.7	156	79.6	167	81.1	148	72.5	149	68.3
Direct Helicopter	1	0.7	0	0.0	4	1.9	6	2.9	5	2.3
Transfer from urban hospital	16	10.5	22	11.2	15	7.3	22	10.8	36	16.5
from another MTS	2	1.3	2	1.0	0	0.0	5	2.5	5	2.3
from outside Sydney metro	10	6.6	5	2.6	10	4.9	11	5.4	7	3.2
Private transport (car etc.)	8	5.3	10	5.1	9	4.4	12	5.9	12	5.5
Not known	0	0.0	1	0.5	1	0.5	0	0.0	4	1.8
Total	152	100	196	100	206	100	204	100	218	100

SWSAHS Inter-hospital Transfers to Liverpool Hospital

There were 384 adult patients (aged 14 years and older) admitted to Liverpool Hospital following inter-hospital transfer from another hospital within SWSAHS during the 5-year period. This represents 4.2% of all trauma admissions to Liverpool Hospital. The inter-hospital transfers were conducted either by a medical retrieval team (eg NRMA CareFlight or Westpac Lifesaver Rescue Helicopter), by paramedics or by general duty ambulances according to the referral hospital physicians' judgement. A small number of patients were transported by private vehicle as it was felt no specialised transport was necessary. After arrival in Emergency Department at Liverpool Hospital 73 (19.1%) went to operating theatre, 75 (19.5%) to ICU, 227 (59.1%) to ward, 8 were transferred to a hospital in another area, and 2 patients died in ED.

Time (Elapsed) and Level of Officer at Each Phase of Care for Inter-hospital Transfers

Time (in minutes)	General Duty Ambulance		Paramedic Ambulance		Medical Retrieval		Private		Total	
Mean ∇ sd										
Total Pre-hospital time	16	∇ 9	17	∇ 10	20	∇ 19	N/a	*	15	∇ 95
At Referring Hospital	330	∇ 24	254	∇ 24	250	∇ 21	397	∇ 40	306	∇ 25
Transport time	37	∇ 20	38	∇ 31	32	∇ 13	51	∇ 48	57	∇ 13
Total Time to Liverpool	435	∇ 27	325	∇ 23	283	∇ 16	*	*	373	∇ 25
		5		4		5				2

Mode of Transport from Referring Hospital: Patient demographics (values means ∇ sd)

Transport	General Duty Ambulance		Paramedic Ambulance		Medical Retrieval Team		Private		Total	
n=384	%		%		%		%		%	
Males	166	75.8	51	72.9	52	76.5	19	70.4	288	75.0
Females	53	24.2	19	27.1	16	23.5	8	29.6	96	25.0
Age years (mean ∇ sd)	40.6	∇ 20.9	37.6	∇ 21.7	35.5	∇ 18.9	33.2	∇ 20.4	38.7	∇ 20.8
ISS (mean ∇ sd)	10.5	∇ 6.8	14.4	∇ 8.3	20.5	∇ 12.6	11.7	∇ 7.1	13.0	∇ 9.1

Mode of Transport from Referring Hospital: Mechanism of Injury

Mechanism	General Duty Ambulance		Paramedic Ambulance		Medical Retrieval Team		Private		Total	
n=384	N	%	N	%	N	%	N	%	N	%
Road Trauma	68	30.1	29	41.4	23	33.8	7	22.6	127	33.1
Interpersonal Violence	45	20.8	20	28.5	16	23.5	3	9.7	84	21.9
Falls	73	33.8	14	20.0	20	29.4	11	35.4	118	30.7
Other	33	15.3	7	10.0	9	13.2	6	22.2	55	14.3

Interventions at Referring Hospital Prior to Transfer to Liverpool Hospital

Intervention	n=384	%
Intubation	57	14.8
Chest Tube Insertion	11	2.9
Fluids administered \geq 1500ml	45	11.7
Blood administration	9	2.3

Patients with Altered Physiological Status At Referring Hospital Prior to Transfer

Transport	General Duty Ambulance		Paramedic Ambulance		Medical Retrieval		Private		Total	
	N	%	N	%	N	%	N	%	N	%
Respiratory Rate <10 or >29	4	1.0	10	2.6	10	2.6	0	0.0	24	6.3

BP Systolic <90mmHg	5	1.3	1	0.3	3	0.8	0	0.0	9	2.3
GCS ≤ 8	2	0.5	8	.21	23	6.0	0	0.0	33	8.6