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The Impact of Major Trauma

- Major trauma is responsible for the loss of more economically productive years of life than heart disease and cancer combined
- Leading cause of death in 0-40 year olds
 - Approx 50% of childhood deaths
 - Approx 75% of Adolescent deaths
 - Approx 40% of deaths in 15-25 age group

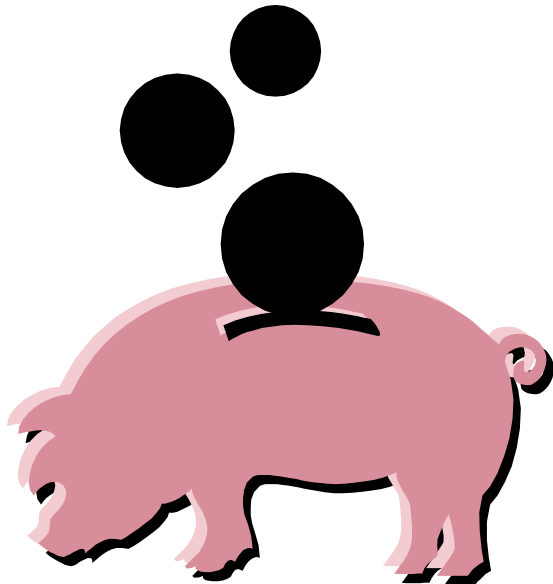
The Impact of Major Trauma



- For every trauma related death in Victoria there are:
 - 331 hospital admissions
 - 144 Emergency Department attendances

\$\$ How much does it cost??

☹️ The treatment of a major trauma patient costs at least 3 times more than a non-trauma patient



Are Major Trauma Deaths Preventable?

Victoria

- Consultative Committee on Road Traffic Fatalities (1996)
 - 30-40% deaths potentially preventable
 - Major Trauma Management Study
 - 40% of survivors to hospital had potentially preventable death, complications or disability
- (Danne et al, 1998)



The Royal
Melbourne Hospital

Trauma Service

What to do about it!!!!

1997

Establishment of the

Ministerial Taskforce on Trauma and
Emergency Services

to advise the Government on a best practice
model

Review of Trauma & Emergency Service

■ Deficiencies in the trauma system

- delays in ambulance response
- delays at accident scene
- delays in transport
- inadequate medical escort
- inadequate management in ED by junior staff
- delayed investigation
- delayed surgery
- Complications

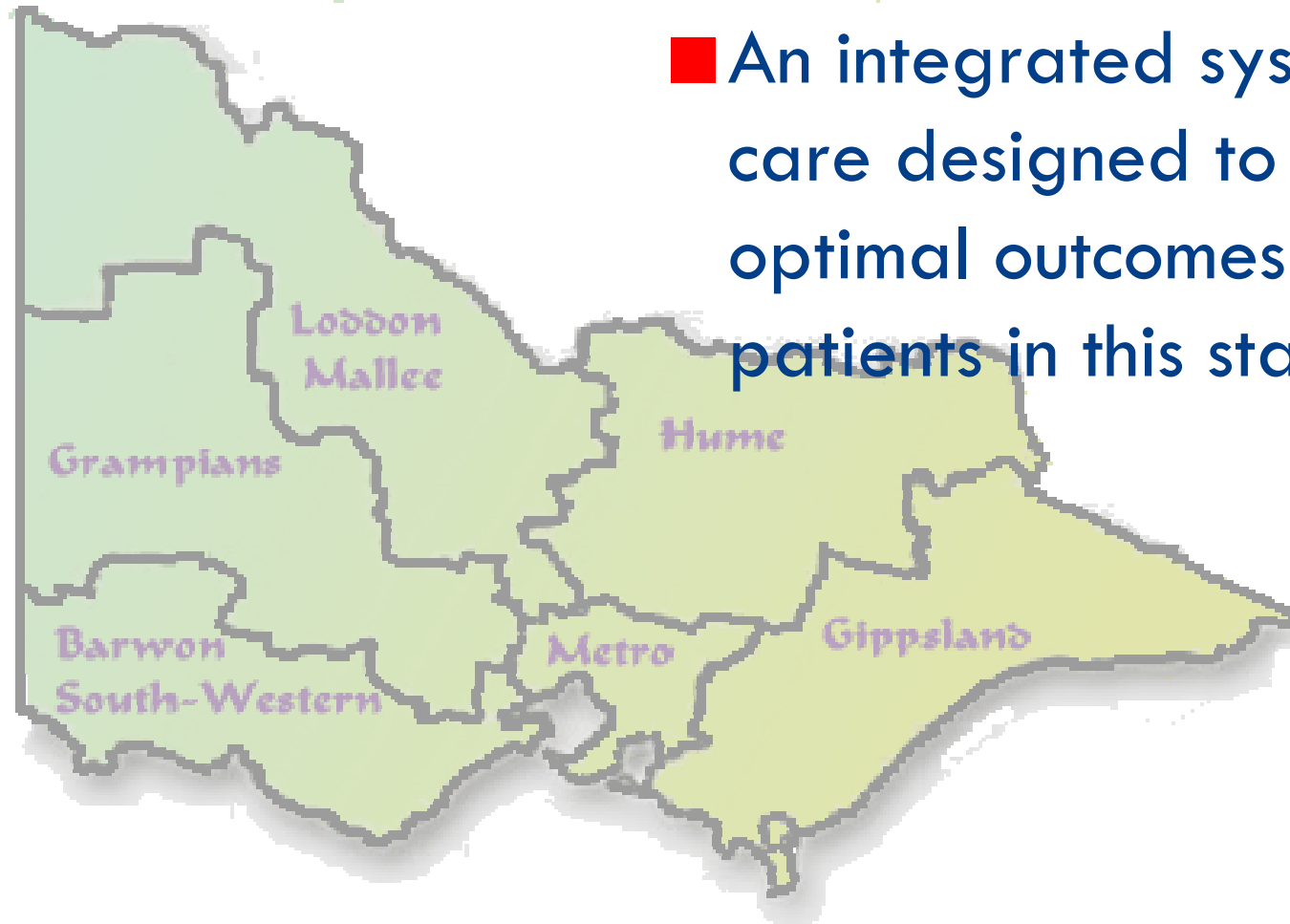
ROTES Report 1999

The Victoria State Trauma System



What is The Victoria State Trauma System?

- An integrated system of trauma care designed to achieve optimal outcomes for trauma patients in this state



The Goal

- To deliver ‘the right patient to the right hospital in the shortest time.’
- ‘To match a facilities resources with a patient’s medical needs so that optimal and cost effective care is achieved.’



- Integrated coordinated system
- Designated levels within a tiered structure
- Treatment by appropriate level
- Minimisation of time to definitive treatment

Designation of hospitals

Trauma Service

■ Major Trauma Service (MTS)

- The Alfred
- Royal Melbourne Hospital
- Royal Children's Hospital

■ Metropolitan Primary Care Service (MPCS)

- Sunshine
- Epworth
- Rosebud
- Sandringham

■ Metropolitan Trauma Service (MeTS)

- Austin
- Box Hill Hospital
- Dandenong
- Frankston
- Maroondah
- MMC
- The Northern Hospital
- Western Hospital

Designation of hospitals

Trauma Service

■ Regional

- Barwon, Gippsland, Grampians, Hume, Loddon Mallee

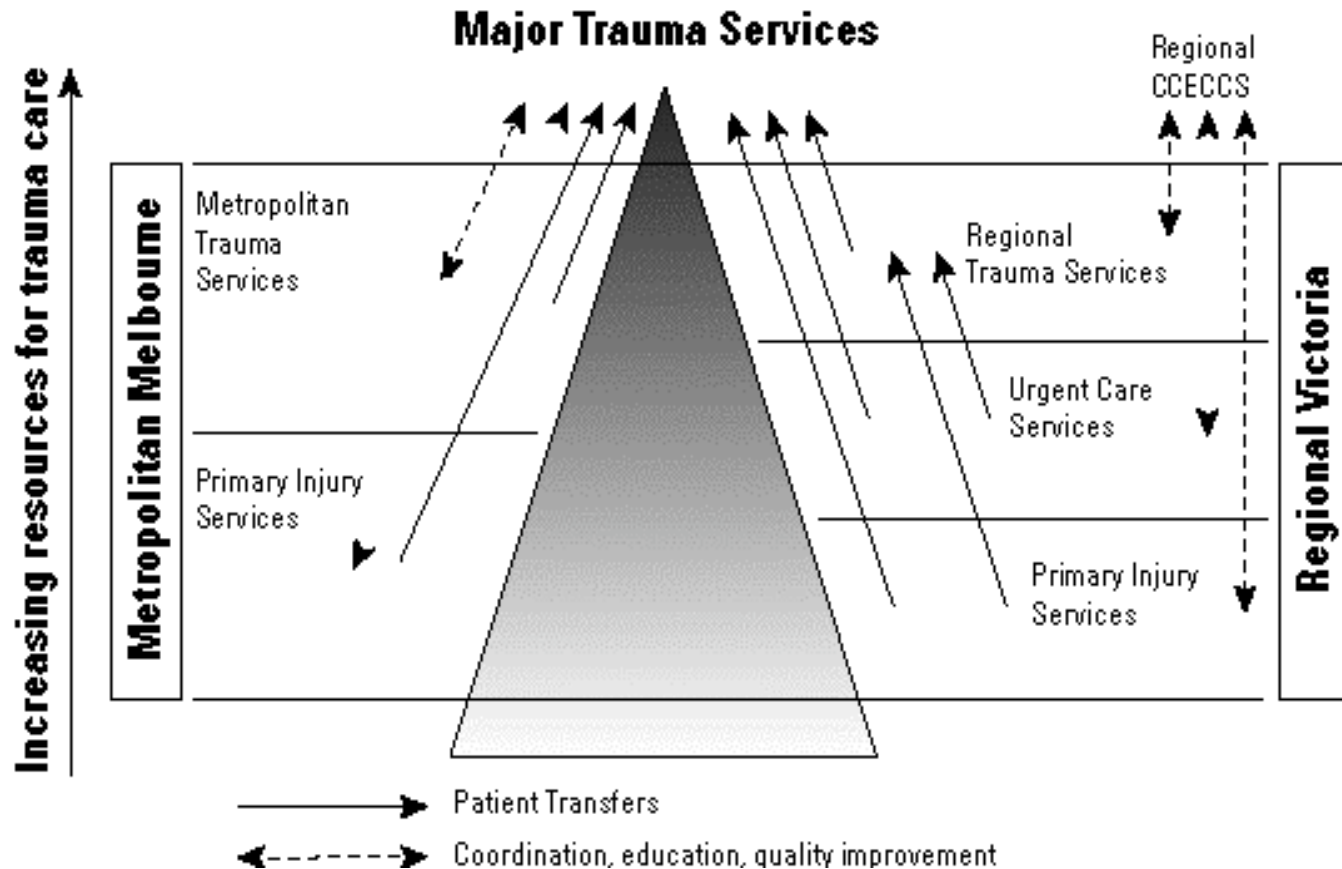
■ Regional Trauma Service (RTS)

- Eg. Geelong Hospital, Latrobe Regional Hospital, Ballarat Hospital, Wangaratta, Bendigo Health,

■ Regional Urgent Care Services (RUCS)

■ Regional Primary Care Services (RPCS)

Transfers of major trauma patients



- Map of the rural trauma services
- Review of emergency and trauma services 1999
- Victorian state registry (VSTORM)
- VSTS presentation
- 1800 Number
- Annual reports
- Guidelines

<http://www.health.vic.gov.au/trauma/>