Serviço Nacional de Ambulâncias e Emergências Médicas – Timor-Leste Ambulance Service Today



Location of Timor-Leste

Scott Stewart₁ & Francisco Borges_{2,3}

1 School of Nursing, Midwifery and Paramedicine, Australian Catholic University, <u>scott.stewart@acu.edu.au</u> 2 Serviço Nacional de Ambulâncias e Emergências Médicas, 3 Facilty of Public Health, Universidade da Paz





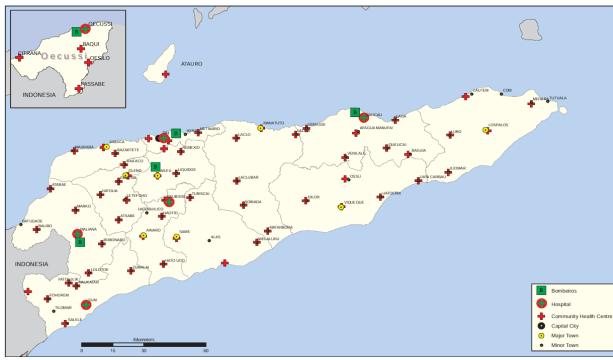




Background

Timor-Leste became an independent country in 2002¹ after 400 years of colonization² and a destructive occupation³. The population of 1.38 million is mostly young (median 21.2y) with high fertility rate⁴ and mostly rural (74%)⁵ with a median income of \$1.25 USD/day⁶.

Serviço Nacional de Ambulâncias e Emergências Médicas (SNAEM) was established in June 2020 and is staffed by doctors, nurses, midwives and drivers⁷.



Location of SNAEM centres in Timor-Leste ⁸

Current response

- Calls are manually triaged to determine optimum crewing response ⁷.High rate of Midwifery cases⁹, trauma including domestic violence, and tropical diseases such as dengue ¹⁰.
- Patients are assessed, treated and transported as needed to local health centre or Guido

SNAEM jump bag



SNAEM demonstrating non pneumatic anti shock garment for PPH



Donated ambulances form part of the SNAEM fleet



Multifunction SNAEM ambulance

Challenges

- Funding limits staff numbers, infrastructure and available of consumables ^{5,7,12}
- Limited out-of-hospital specific education for doctors, nurses and midwives
- Geographical barriers hinder prompt emergency response ^{5, 13}.
- Climate change will exacerbate disasters and disease outbreaks ¹³
- Cultural barriers to health care ¹⁴



SNAEM liaising with Mission Aviation Fellowship for an aeromedical retrieval

Conclusion

Budget challenges result in limited paid staff, vehicles, stations, and equipment. The ability to provide analgesia is also hampered by legislation restricting administering opiates by medical staff on ambulance. These factors result in long emergency response times, extended patient transport distances, and oligoanalgesia.

Valadares National Hospital.

- New CPGs and drugs being trailed.
- Aeromedical retrieval with assistance from Mission Aviation Fellowship ¹¹



SNAEM Call takers and dispatchers



Prime minister Xanana Gusmão in SNAEM multifunction ambulance

The SNAEM is looking to recruit health professionals with EMS experience and improve its funding and legislative environment. It is considering developing a paramedic level of health care professional.



1. Morrow J and White R. The United Nations in transitional East Timor: international standards and the reality of governance. <i>Aust YBIL</i> 2002; 22: 1.	9. Moores J and de Jesus GA. Management of post-partum haemorrhage in the Timor Leste National Ambulance Service. <i>Emerg Med Australas</i> 2018; 30: 814-819. 2018/09/04. DOI: 10.1111/1742-6723.13153.
2. Kingsbury D. East Timor. The Southeast Asia Handbook. Routledge, 2013, pp.110-120.	10.Manel Yapabandara AMG, do Rosario de Fatima Mota M, Sarmento R, et al. From malaria control to elimination
3. Dunn J. Genocide in East Timor. Centuries of Genocide. Routledge, 2012, pp.278-315.	within a decade: lessons learned from Timor Leste, a newly independent country. <i>Malar J</i> 2020; 19: 104. 20200304.
4. Henderson H, Soares Xavier HA, da Silva M, et al. 'If we take the engine out, how will the car go?': beliefs,	DOI: 10.1186/s12936-020-03162-3.
understanding and access to vasectomy services in Timor-Leste. Cult Health Sex 2024: 1-17. 20240418. DOI:	11. Mission Aviation Fellowship. Overcoming isolation in Timor-Leste, https://timorleste.mafint.org/ (2024).
10.1080/13691058.2024.2341847.	12.Kleine-Bingham MB, Rangel G, Sarakbi D, et al. Country learning on maintaining quality essential health services
5. United Nations Development Programme. Human Development Report 2023-24: Breaking the gridlock: Reimagining	during COVID-19 in Timor-Leste: a qualitative analysis. BMJ Open 2023; 13: e071879. 20230421. DOI:
cooperation in a polarized world. 2024.	10.1136/bmjopen-2023-071879.
6. Jendrissek D. Measuring poverty in Timor-Leste: using census data to develop a national Multidimensional Poverty	13. The World Bank Group and the Asian Development Bank. Climate Risk Country Profile: Timor-Leste. 2021.
Index. Asia-Pacific Sustainable Development Journal 2021; 28: 32.	Washington, DC: The World Bank Group and the Asian Development Bank.
7. da Costa F, Rangel G and Sarmento R. The Emergency Medical Service in Timor-Leste. Timor-Leste Journal of	14. Guinness L, Paul RC, Martins JS, et al. Determinants of health care utilisation: the case of Timor-Leste. Int Health
Medical Sciences 2023: 10.	2018; 10: 412-420. 2018/07/15. DOI: 10.1093/inthealth/ihy044.
8. Office for the Coordination of Humanitarian Affairs. Timor-Leste: Bombeiros and Community Health Centre	15. Price JA, Soares AI, Asante AD, et al. "I go I die, I stay I die, better to stay and die in my house": understanding the
Locations. United Nations Office for the Coordination of Humanitarian Affairs, 2007.	barriers to accessing health care in Timor-Leste. BMC Health Serv Res 2016; 16: 535. 2016/10/08.

ACCU AUSTRALIAN CATHOLIC UNIVERSITY