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Implications of Vascular Trauma in Brazil

Daniel Corradi Carregal

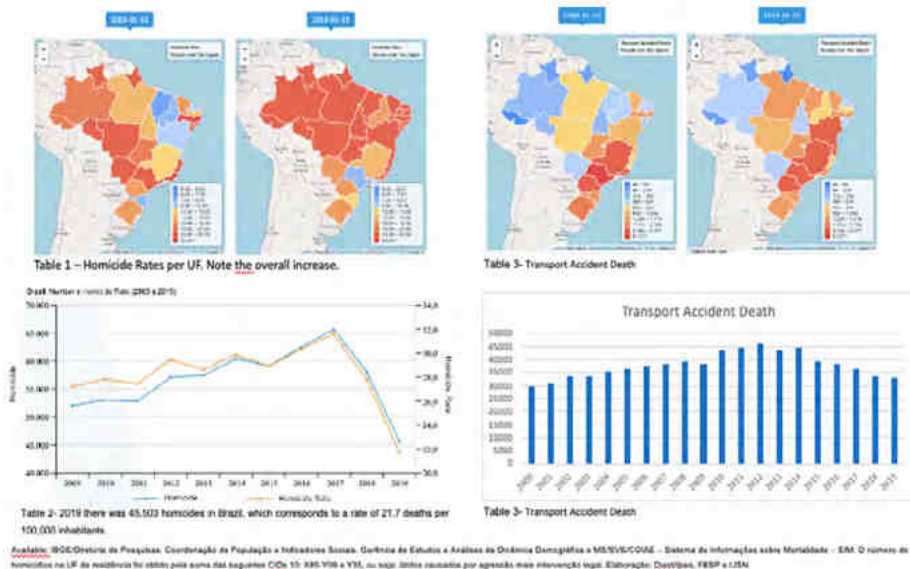
Hospital Israelita Albert Einstein, Brazil

Statement of the Problem: Vascular trauma is the most challenging aspect of care for the trauma patient. The extent and complexity of vascular trauma usually leads to shock or profound ischemia, and it tends to be associated with injuries in other tissues or organs. It requires a multidisciplinary approach focused on life and limb saving measures.

In Brazil, trauma epidemiology has origins in both military and civilian contexts. The majority of injuries in Brazil are now caused by urban violence, automotive accidents, and work-related trauma. Until the most recent decade (2010–2020), there were increasing levels of violence and trauma in Brazil (Table 1-2). In the absence of a recent major war, Brazilian surgeons have little expertise in dealing with severe injuries caused by military munitions, including those from explosive devices, which have been practically nonexistent. The goal is to provide an insight into the epidemiology of trauma in Brazil and the implications of vascular injury in that spectrum.

Methodology & Theoretical Orientation: A case report and a review of literature have been conducted to elucidate the matter. Regarding automobile accidents in Brazil, they are startling and suggestive of national health urgency. Specifically, the WHO estimates that by 2020, nearly 2 million deaths in Brazil could be attributable to automobile crashes (Table 3-4).

Conclusion & Significance: Trauma patients may benefit from damage control and resuscitation approaches that are getting better over time, as well as the quick acceptance of catheter-based, endovascular treatments to treat specific kinds of vascular injury.



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Recent Publications

1. Rasmussen TE, Tai NRM, Rich NM. Rich's vascular trauma. 4th ed, p 432. Amsterdam: Elsevier; 2021.
2. Porta, R., Góes Jr., A., & Murilo, R. (2022). Trauma vascular: o que todo cirurgião deve saber. 1st ed, p. 192. Editora Rubio, Rio de Janeiro.
3. Carregal DC, Rabelo PMA, Amaral MTP, Souza Junior FDPA, Figueiredo Junior FDAF. Right subclavian artery injury secondary to blunt trauma successfully treated in a patient with situs inversus totalis: Case report. Int J Case Rep Images 2021; 12 DOI: 101275Z01DC2021.5.

Biography

Daniel Corradi is a Board-Certified Vascular Surgeon by the Brazilian Society of Angiology and Vascular Surgery (SBACV/AMB). During his surgery training, he received an honors degree. Throughout his vascular surgery education in a major trauma hospital, he worked on a wide range of vascular patient care, focusing on vascular trauma care, completing his education in endovascular surgery at the Hospital Israelita Albert Einstein/SP (HIAE). He is a member of the European Society for Vascular Surgery (ESVS), the Brazilian Society of Angiology and Vascular Surgery (SBACV), the American Venous Forum (AVF), and the Brazilian Society of Laser in Medicine and Surgery (SBLMC).

dccarregal@gmail.com