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In conclusion, we wish to highlight the entity of viral infection-induced thrombosis and intra-arterial thrombosis in association with severe viral infections, especially in the CoV-positive patient. We wish to encourage our colleagues across all fields of specialty to have a high index of suspicion for signs of limb and mesenteric ischemia. The early diagnosis of these conditions has a tremendous influence on the success of treatment.

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REFERENCES

1. Huzmeli C, Candan F, Alaygut D, Training T, Kayatas M. Epstein Barr virus induced thrombosis. *Ann Med* 2016;February.
2. Bunce PE, High SM, Nadjafi M, Stanley K, Liles C, Christian MD. Pandemic H1N1 influenza infection and vascular thrombosis. *Clin Infect Dis* 2011;52:e14-7.
3. Konin C, Essam AN. Arterial thrombosis in patients with human immunodeficiency virus: two-case reports and review of the literature. *Case Rep Vasc Med* 2011;2011:847241.
4. Virchow RC. Cellular pathology as based upon physiological and pathological history. Chance F, trans. Birmingham, Ala: Gryphon Editions; 1978.
5. Bagot CN, Arya R. Virchow and his triad: a question of attribution. *Br J Haematol* 2008;143:180-90.
6. Beristain-Covarrubias N, Perez-Toledo M, Thomas MR. Understanding infection-induced thrombosis: lessons learned from animal models. *Front Immunol* 2019;10:2569.
7. Goeijenbier M, van Wissen M, van de Weg C, Jong E, Gerdes VE, Meijers JC, et al. Review: viral infections and mechanisms of thrombosis and bleeding. *J Med Virol* 2012;84:1680-96.
8. Xu X, Chen P. Evolution of the novel coronavirus from the ongoing Wuhan outbreak and modeling of its spike protein for risk of human transmission. *Sci China Life Sci* 2020;63:457-60.
9. Ruan Q, Yang K, Wang W, Jiang L, Song J. Correction to: clinical predictors of mortality due to COVID-19 based on an analysis of data of 150 patients from Wuhan, China. *Intensive Care Med* 2020 Apr 6. [Epub ahead of print].
10. Chen N, Zhou M, Dong X, Qu J, Gong F, Han Y, et al. Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: a descriptive study. *Lancet* 2020;395:507-13.

<https://doi.org/10.1016/j.jvs.2020.05.001>

COVID-19 pandemic and vascular surgery unit



We found the publication "Early experience in the COVID-19 pandemic from a vascular surgery unit in a Singapore tertiary hospital" very interesting. Tan et al¹ stated, "Surgical services form an essential component of the health care system, but as surgeons, we need to be versatile and be able to respond to the ever evolving pandemic situation." The risk of COVID-19 transmission to the surgeon during surgery is possible.² The preventive measures explained by Tan et al¹ are useful in other settings. In addition to general preventive measures, there should be a good surgery management system to postpone unnecessary surgery. In Indochina, almost all vascular surgeries are not done during the COVID-19 outbreak. In case the vascular surgical procedure is required, presurgery testing for COVID-19 is recommended,³ and the practitioner should follow standard universal precautions for all patients in all phases of surgery, before, during, and after operation.

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REFERENCES

1. Tan GW, Chandrasekar S, Lo ZJ, Hong Q, Yong E, Lingam P, et al. Early experience in the COVID-19 pandemic from a vascular surgery unit in a Singapore tertiary hospital. *J Vasc Surg* 2020;72:12-5.
2. Joob B, Wiwanitkit V. Carpal fracture and COVID-19 infection: observation from Thailand. *Indian J Orthop* 2020;54:393.
3. Al-Muharraqi MA. Testing recommendation for COVID-19 (SARS-CoV-2) in patients planned for surgery—continuing the service and 'suppressing' the pandemic. *Br J Oral Maxillofac Surg* 2020;58:503-5.

<https://doi.org/10.1016/j.jvs.2020.05.025>

Rectifying the misconceptions about current best management of asymptomatic carotid stenosis is not about revising history



We would like to thank Cambria and Conrad¹ for agreeing with us² that transaortic carotid artery stenting (CAS) causes more stroke and death than carotid endarterectomy (CEA). However, it should be added that the periprocedural period cannot be ignored, and the CAS excess in stroke and death is measurable for as long as we have continued follow up in trials.²

Cambria and Conrad¹ have also provided opportunity to expose other important misconceptions regarding current best management of asymptomatic carotid stenosis (ACS):