



TRUE PIONEERS **KEEP THEIR HEADS UP.**

NEUROSURGERY CAN BE AN ERGONOMIC CHALLENGE.

For every inch the head moves forward, the head, neck, and upper back muscles must support an additional 10 pounds

of weight (1).

Furthermore, trunk postures, such as forward flexion, lateral bending, and axial twisting, are associated with back pain (2).







FLAWED ERGONOMICS MAY COMPROMISE THE HEALTH AND PERFORMANCE OF SURGEONS.



NEUROSURGEONS DESERVE THE CHANCE TO STAND TALL.

Potential benefits of working with the **AESCULAP*** Aesculap Aeos[®] – Digital Surgical Microscope Platform and not being bound to the eyepiece:



For information on ergonomic and pain-free surgery, visit www.bbraun.com/aesculapaeos-standtall

(1) Kapandji A. The Physiology of the Joints. Volume 3. 6th ed. London: Churchill Livingstone; 2008. (2) Keyserling WM, Punnett L, Fine LJ. Trunk Posture and Back Pain: Identification and Control of Occupational Risk Factors. Applied Industrial Hygiene; 3(3):87–92. | (3) Kerstin Pingel. 7 Tips For Better Ergonomics in Neurosurgery. Leica Science Lab. 2014. | (4) Kerstin Pingel. Ergonomically Designed Surgical Microscopes Support Performance. Leica Science Lab. 2014. (5) Davis WT, Fletcher SA, Guillamondegui OD: Musculoskeletal occupational injury among surgeons: effects for patients, providers, and institutions. J Surg Res. 2014 in "Shape Shifters". Surgeon News. September 2017:28-30