Download Quantitative Cerebral Blood Flow Measurements Using Stable Xenon Ct Clinical

Stable Xenon CT Cerebral Blood Flow Imaging: Rationale for and Role in Clinical Decision Making David W. Johnson,1 Warren A. Stringer,2 Michael P. Marks,3 Howard Yonas,4 Walter F. Good,5 and David Gur The stable xenon CT method of measuring cerebral blood flow has been investigated in research studies for over 10 years.

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Tomonaga M, Tanaka A, Yonas H, eds. Quantitative cerebral blood flow measurements using stable Xenon/CT. Clinical implications. Armonk, NY: Futura Publishing Company, Inc., 1995:1-310. 4. Yonas H, Pindzola RR. Physiological determination of cerebrovascular reverses and its use in clinical management. Cerebrovasc Brain Metab Rev 1994;6:325-40.

Quantitative cerebral blood flow measurements using stable Xenon-CT The principks are followed by to of brief sections of ex~~a~at~o~ ~~~o~~ationthat are clearly written and and well supported from the extensive references.

Our approach to measurement of CBV is based on independent measurements of CBF by the stable xenon/CT method and of the cerebral mean transit (IW) of a nondiffusible indicator (iodine) using rapid sequential CT scanning. 10 CBV is then calculated from the central volume principle by simple multiplication.

Recently, xenon CT cerebral blood flow techniques have been developed and applied to a wide variety of clinical problems, including the confirmation of brain death.

Kishore PR, Rao GU, Fernandez RE, et al. Regional cerebral blood flow measurements using stable xenon enhanced computed tomography: a theoretical and experimental evaluation. J Comput Assist Tomogr. 1984; 8 (4):619–630.

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tral nervous system, quantitative measurements of cerebral blood flow are difficult. An ideal method for measuring CBF should provide all the following. Quantitative results High spatial resolution Continuous measurements, if clinically required No influence on the normal brain function No or minimal risk to the patient Cost-effectiveness Application in the clinical setting The first well ...

edited by Masamichi Tomonaga, Akira Tanaka, and Howard Yonas, 354 pp., ill., Armonk, NY, Futura Publishing Company, $75.00 This book represents the Second International Conference on Xenon/CT CBF held November 23-26, 1992, in Fukoka, Japan. Coming on the heels of approval of this technology by the Japanese government in April 1992, it is ...

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