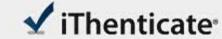


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Advances in determining abdominal aortic aneurysm size and growth

Kontopodis N et al. Abdominal aortic aneurysms' size recordings

Nikolaos Kontopodis, Stella Lioudaki, Dimitrios Pantidis, George Papadopoulos, Efstratios Georgakarakos, Christos V Ioannou

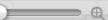
Abstract

Abdominal aortic aneurysm is a common pathology in the aging population of the developed world which carries a significant mortality in excess of 80% in case of rupture. Aneurysmal disease probably represents the only surgical condition in which size is such a critical determinant of the need for intervention and therefore the ability to accurately and reproducibly record aneurysm size and growth over time is of outmost importance. In the same time that imaging techniques may be limited by intra- and inter-observer variability and there may be inconsistencies due to different modalities [ultrasound, computed tomography (CT)], rapid technologic advancement have taken aortic imaging to the next level. Digital imaging, multi-detector scanners, thin slice CT and most-













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CT reconstruction image of an abdominal aortic aneurysm (white arrows) ... There does not appear to be a difference in longer term outcomes between the two. Ultrasonography is used to screen for aneurysms and to determine the size of of the AAA. and also a method of determining AAA growth and rupture based on....

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The rate of expansion increases with increasing AAA size. are based on initial AAA size and growth determined from later measurements. ... In screening, fully two thirds of aneurysms detected by ultrasound were found to be .4.0 cm (33). CT angiography with three-dimensional reconstruction is a relatively new way of....

Management of small asymptomatic abdominal aortic aneurysms—a ... www.ncbi.nlm.nih.gov/pmc/articles/PMC2733031/

The approach for abdominal aortic aneurysms (AAAs) larger than 55 mm is ... The natural evolution of an abdominal aortic aneurysm (AAA) leads to growth and rupture ... The authors of the above study concluded in 1998 (2) and 2002 (3) that the ... The difficulty in accurately assessing the dimensions of the aorta, especially....

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MP Nevitt, DJ Ballard, JW Hallett Jr - New England Journal of ..., 1989 - Mass Medical Soc. ... (2012) Screening for Abdominal Aortic Aneurysms. Advances in Surgery 46:1, 101-109. ... Journal

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AAA is a localized dilatation of the abdominal aorta: an aortic diameter >3.0 cm, based on initial AAA size and growth determined from later measurements.