

표 1. 인터벤션 핵심질문 1 근거표

핵심질문 1

문헌정보	연구유형	대상자 수	문헌 질 KCIG
Chaikof EL, Dalman RL, Eskandari MK, et al. The Society for Vascular Surgery practice guidelines on the care of patients with an abdominal aortic aneurysm. J Vasc Surg. 2018 Jan;67(1):2-77.	Guideline		1
Thompson SG, Brown LC, Sweeting MJ, Bown MJ, Kim LG, Glover MJ, et al. Systematic review and meta-analysis of the growth and rupture rates of small abdominal aortic aneurysms: implications for surveillance intervals and their costeffectiveness. Health Technol Assess 2013;17:1-118.	Meta-analysis		1
Powell JT, Brown LC, Forbes JF, Fowkes FG, Greenhalgh RM, Ruckley CV, et al. Final 12-year follow-up of surgery versus surveillance in the UK Small Aneurysm Trial. Br J Surg 2007;94:702-8.	Radomized trial	1,090 patients	1
Lederle FA, Johnson GR, Wilson SE, Chute EP, Hye RJ, Makaroun MS, et al. The aneurysm detection and management study screening program: validation cohort and final results. Aneurysm Detection and Management Veterans Affairs Cooperative Study Investigators. Arch InternMed 2000;160:1425-30.	Observational	52,745 patients	2
Ashton HA, Buxton MJ, Day NE, Kim LG, Marteau TM, Scott RA, et al. The Multicentre Aneurysm Screening Study (MASS) into the effect of abdominal aortic aneurysm screening on mortality in men: a randomised controlled trial. Lancet 2002;360:1531-9.	Randomized trial	67,800 patients	1
Scott RA, Vardulaki KA, Walker NM, Day NE, Duffy SW, Ashton HA. The long-term benefits of a single scan for abdominal aortic aneurysm (AAA) at age 65. Eur J Vasc Endovasc Surg 2001;21:535-40.	Radomized trial	2,212 patients	1
Couto E, Duffy SW, Ashton HA, Walker NM, Myles JP, Scott RA, et al. Probabilities of progression of aortic aneurysms: estimates and implications for screening policy. J Med Screen 2002;9:40-2.	Randomized trial	2,342 patients	1
Brady AR, Thompson SG, Fowkes FG, Greenhalgh RM, Powell JT. Abdominal aortic aneurysm expansion: risk factors and time intervals for surveillance. Circulation 2004;110:16-21.	Observational	1,743 patients	2
Graeve AH, Carpenter CM, Wicks JD, Edwards WS. Discordance in the sizing of abdominal aortic aneurysm and its significance. Am J Surg 1982;144:627-34.	Observational	15 patients	3
Wilink AB, Forshaw M, Quick CR, Hubbard CS, Day NE.	Observational	93 patients	2

Accuracy of serial screening for abdominal aortic aneurysms by ultrasound. J Med Screen 2002;9:125–7.			
Jaakkola P, Hippelainen M, Farin P, Rytönen H, Kainulainen S, Partanen K. Interobserver variability in measuring the dimensions of the abdominal aorta: comparison of ultrasound and computed tomography. Eur J Vasc Endovasc Surg 1996;12:230–7.	Observational	33 patients	2
Singh K, Jacobsen BK, Solberg S, Bonaa KH, Kumar S, Bajic R, et al. Intra- and interobserver variability in the measurements of abdominal aortic and common iliac artery diameter with computed tomography. The Tromsø study. Eur J Vasc Endovasc Surg 2003;25:399–407.	Observational	59 patients	2
Wanhainen A, Bergqvist D, Björck M. Measuring the abdominal aorta with ultrasonography and computed tomography: difference and variability. Eur J Vasc Endovasc Surg 2002;24:428–34.	Observational	61 patients	2
Lederle FA, Wilson SE, Johnson GR, Reinke DB, Littooy FN, Acher CW, et al. Variability in measurement of abdominal aortic aneurysms. Abdominal Aortic Aneurysm Detection and Management Veterans Administration Cooperative Study Group. J Vasc Surg 1995;21:945–52.	Observational	806 patients	2
Hendy K, Gunnarson R, Golledge J. Growth rates of small abdominal aortic aneurysms assessed by computerised tomography: a systematic literature review. Atherosclerosis 2014;235:182–8.	Systematic review		2
Lederle FA, Johnson GR, Wilson SE, Gordon IL, Chute EP, Littooy FN, et al. Relationship of age, gender, race, and body size to infrarenal aortic diameter. The Aneurysm Detection and Management (ADAM) Veterans Affairs Cooperative Study Investigators. J Vasc Surg 1997;26:595–601.	Observational	69,905 patients	2
Lindholt JS, Vammen S, Juul S, Henneberg EW, Fasting H. The validity of ultrasonographic scanning as screening method for abdominal aortic aneurysm. Eur J Vasc Endovasc Surg 1999;17:472–5.	Observational	4,176 patients	2
Tayal VS, Graf CD, Gibbs MA. Prospective study of accuracy and outcome of emergency ultrasound for abdominal aortic aneurysm over two years. Acad Emerg Med 2003;10: 867–7	Observational	125 patients	3
Adam DJ, Bradbury AWW, Stuart WP, Woodburn KR, Murie JA, Jenkins AM, et al. The value of computed tomography in the assessment of suspected ruptured abdominal aortic aneurysm. J Vasc Surg 1998;27:431–7	Observational	652 patients	3

Biancari F, Paone R, Venermo M, D'Andrea V, Perala J. Diagnostic accuracy of computed tomography in patients with suspected abdominal aortic aneurysm rupture. <i>Eur J Vasc Endovasc Surg</i> 2013;45:227-30.	Observational	97 patients	1
Taheri MS, Haghighatkah H, Pourghorban R, Hosseini A. Multidetector computed tomography findings of abdominal aortic aneurysm and its complications: a pictorial review. <i>Emerg Radiol</i> 2013;20:443-51.	Review		5
Lederle FA. A summary of the contributions of the VA cooperative studies on abdominal aortic aneurysms. <i>Ann N Y Acad Sci</i> . 2006; 1085:29-38.	Review/Other-Dx		5
Singh K, Bonaa KH, Solberg S, Sorlie DG, Bjork L. Intra- and interobserver variability in ultrasound measurements of abdominal aortic diameter. The Tromso Study. <i>Eur J Vasc Endovasc Surg</i> . 1998; 15(6):497-504.	Observational-Dx	1ST US: 6,892 patients; 2nd US: 112 patients 4 observers (3 sonographers and one radiologist)	5
Manning BJ, Kristmundsson T, Sonesson B, Resch T. Abdominal aortic aneurysm diameter: a comparison of ultrasound measurements with those from standard and three-dimensional computed tomography reconstruction. <i>J Vasc Surg</i> . 2009; 50(2):263-268	Observational-Dx	109 patients	2
Rakita D, Newatia A, Hines JJ, Siegel DN, Friedman B. Spectrum of CT findings in rupture and impending rupture of abdominal aortic aneurysms. <i>Radiographics</i> . 2007; 27(2):497-507.	Review/Other-Dx		5
Roy J, Labruto F, Beckman MO, Danielson J, Johansson G, Swedenborg J. Bleeding into the intraluminal thrombus in abdominal aortic aneurysms is associated with rupture. <i>J Vasc Surg</i> . 2008; 48(5):1108-1113	Observational-Dx	42 patients	5
Apter S, Rimon U, Konen E, et al. Sealed rupture of abdominal aortic aneurysms: CT features in 6 patients and a review of the literature. <i>Abdom Imaging</i> . 2010;35(1):99-105.	Observational-Dx	6 patients and 31 consecutive patients	5
Diehm N, Herrmann P, Dinkel HP. Multidetector CT angiography versus digital subtraction angiography for aortoiliac length measurements prior to endovascular AAA repair. <i>J Endovasc Ther</i> . 2004;11(5):527-534	Observational-Dx	21 patients; 2 observers; 42 events	2
Ruff A, Patel K, Joyce JR, Gornik HL, Rothberg MB. The use of pre-existing CT imaging in screening for abdominal aortic aneurysms. <i>Vasc Med</i> . 2016 Dec;21(6):515-519.	Observational-Dx	142 patients	2

Willmann JK, Lachat ML, von Smekal A, Turina MI, Pfammatter T. Spiral-CT angiography to assess feasibility of endovascular aneurysm repair in patients with ruptured aortoiliac aneurysm. <i>Vasa</i> . 2001; 30(4):271-276.	Observational-Dx	24 patients with suspected rupture; 18 patients with ruptured AAA	4
Atar E, Belenky A, Hadad M, Ranany E, Baytner S, Bachar GN. MR angiography for abdominal and thoracic aortic aneurysms: assessment before endovascular repair in patients with impaired renal function. <i>AJR Am J Roentgenol</i> . 2006; 186(2):386-39	Observational-Dx	19 patients	2
Expert Panels on Vascular Imaging and Interventional Radiology. ACR Appropriateness Criteria® Abdominal Aortic Aneurysm: Interventional Planning and Follow-Up. <i>J Am Coll Radiol</i> . 2018 May;15(5S):S2-S12	Guideline		1
Long A, Rouet L, Lindholt JS, Allaire E. Measuring the maximum diameter of native abdominal aortic aneurysms: review and critical analysis. <i>Eur J Vasc Endovasc Surg</i> 2012;43:515-24.	Review		2
114 Mora C, Marcus C, Barbe C, Ecartot F, Long A. Measurement of maximum diameter of native abdominal aortic aneurysm by angio-CT: reproducibility is better with the semi-automated method. <i>Eur J Vasc Endovasc Surg</i> 2014;47:139-50.	Observational	68 patients	2
Kwon H, Han Y, Noh M, Gwon JG, Cho YP, Kwon TW. Impact of shaggy aorta in patients with abdominal aortic aneurysm following open or endovascular aneurysm repair. <i>Eur J Vasc Endovasc Surg</i> 2016;52:613-9.	Observational	447 patients	4
Foo FJ, Hammond CJ, Goldstone AR, Abuhamdiah M, Rashid ST, West RM, et al. Agreement between computed tomography and ultrasound on abdominal aortic aneurysms and implications on clinical decisions. <i>Eur J Vasc Endovasc Surg</i> 2011;42:608-14.	Observational	123 patients	2
RESCAN Collaborators, Bown MJ, Sweeting MJ, Brown LC, Powell JT, Thompson SG. Surveillance intervals for small abdominal aortic aneurysms: a meta-analysis. <i>JAMA</i> 2013;309:806-13.	Meta-analysis		1
Filardo G, Powell JT, Martinez MA, Ballard DJ. Surgery for small abdominal aortic aneurysms. <i>Cochrane Database Syst Rev</i> 2015;2: CD001835.	Meta-analysis		1
Parker MV, O'Donnell SD, Chang AS, Johnson CA, Gillespie DL, Goff JM, et al. What imaging studies are necessary for abdominal aortic endograft sizing? A prospective blinded study using conventional computed tomography, aortography, and threedimensional computed	Observational	20 patients	1

tomography. J Vasc Surg 2005;41:199–205.			
Saida T, Mori K, Sato F, Shindo M, Takahashi H, Takahashi N, et al. Prospective intraindividual comparison of unenhanced magnetic resonance imaging vs contrast-enhanced computed tomography for the planning of endovascular abdominal aortic aneurysm repair. J Vasc Surg 2012;55:679–87.	Observational	20 patients	1