

별첨 3

배제문헌

문현배제사유

1. 동물연구 또는 전임상시험
2. 원저가 아닌 연구(종설, letter, comment 등)
3. 중재검사를 수행하지 않은 연구
4. 적절한 의료결과를 하나 이상 보고하지 않은 연구
5. 논문 철회된 연구
6. 증례보고
7. 사전에 정의된 대상자를 대상으로 수행되지 않은 연구
8. 원문 확보가 불가한 경우
9. 중복출판된 연구

연번	서지정보	배제 사유
1	Aaen AA, Voldby AW, Storm N, Kildsig J, Hansen EG, Zimmermann-Nielsen E, et al. Goal-directed fluid therapy in emergency abdominal surgery: a randomised multicentre trial. <i>British Journal of Anaesthesia</i> . 2021;127(4):521–31.	3
2	Aboelatta Y, Abdelsalam A. Volume overload of fluid resuscitation in acutely burned patients using transpulmonary thermodilution technique. <i>Journal of Burn Care & Research</i> . 2013;34(3):349–54.	3
3	Akiyoshi K, Kandabashi T, Kaji J, Yamaura K, Yoshimura H, Irita K, et al. Accuracy of arterial pressure waveform analysis for cardiac output measurement in comparison with thermodilution methods in patients undergoing living donor liver transplantation. <i>Journal of Anesthesia</i> . 2011;25(2):178–83.	3
4	Alavi M, Hadipourzadeh F, Azarfarin R, Babaee T, Ziyaeifard M. Effects of advanced hemodynamic monitoring on the postoperative intubation time in patients with moderate-to-severe left ventricular dysfunction undergoing cardiac surgery. <i>Iranian Heart Journal</i> . 2020;21(4):25–32.	5
5	Alonso-Íñigo JM, Escriba FJ, Carrasco JI, Fas MJ, Argente P, Galvis JM, et al. Measuring cardiac output in children undergoing cardiac catheterization: comparison between the Fick method and PRAM (pressure recording analytical method). <i>Paediatric Anaesthesia</i> . 2016;26(11):1097–105.	3
6	Ameloot K, Van De Vijver K, Broch O, Van Regenmortel N, De Laet I, Schoonheydt K, et al. Nexfin noninvasive continuous hemodynamic monitoring: Validation against continuous pulse contour and intermittent transpulmonary thermodilution derived cardiac output in critically ill patients. <i>The Scientific World Journal</i> . 2013;2013 (no pagination)(519080).	4
7	Asamoto M, Orii R, Otsuji M, Bougaki M, Imai Y, Yamada Y. Reliability of cardiac output measurements using LiDCOrapid TM and FloTrac/Vigileo TM across broad ranges of cardiac output values. <i>Journal of Clinical Monitoring & Computing</i> . 2017;31(4):709–16.	3
8	Bahlmann H, Haldestam I, Nilsson L. Goal-directed therapy during transthoracic	3

연번	서지정보	배제 사유
	oesophageal resection does not improve outcome: Randomised controlled trial. European Journal of Anaesthesiology. 2019;36(2):153–61.	
9	Bartha E, Davidson T, Berg HE, Kalman S. A 1-year perspective on goal-directed therapy in elderly with hip fracture: Secondary outcomes. Acta Anaesthesiologica Scandinavica. 2019;63(5):610–4.	3
10	Bartha E, Davidson T, Brodtkorb TH, Carlsson P, Kalman S. Value of information: interim analysis of a randomized, controlled trial of goal-directed hemodynamic treatment for aged patients. Trials. 2013;14:205.	3
11	Baulig W, Bernhard EO, Bettex D, Schmidlin D, Schmid ER. Cardiac output measurement by pulse dye densitometry in cardiac surgery. Anaesthesia. 2005;60(10):968–73.	3
12	Baulig W, Schuett P, Goedje O, Schmid ER. Accuracy of a novel approach to measuring arterial thermodilution cardiac output during intra-aortic counterpulsation. Journal of Clinical Monitoring & Computing. 2007;21(3):147–53.	4
13	Bein B, Worthmann F, Tonner PH, Paris A, Steinfath M, Hedderich J, et al. Comparison of esophageal Doppler, pulse contour analysis, and real-time pulmonary artery thermodilution for the continuous measurement of cardiac output. Journal of Cardiothoracic & Vascular Anesthesia. 2004;18(2):185–9.	4
14	Belda FJ, Aguilar G, Teboul JL, Pestana D, Redondo FJ, Malbrain M, et al. Complications related to less-invasive haemodynamic monitoring. British Journal of Anaesthesia. 2011;106(4):482–6.	4
15	Benes J, Chytra I, Altmann P, Hluchy M, Kasal E, Svitak R, et al. Intraoperative fluid optimization using stroke volume variation in high risk surgical patients: results of prospective randomized study. Critical Care (London, England). 2010;14(3):R118.	3
16	Benes J, Zatloukal J, Simanova A, Chytra I, Kasal E. Cost analysis of the stroke volume variation guided perioperative hemodynamic optimization – an economic evaluation of the SVVOPT trial results. BMC Anesthesiology. 2014;14:40.	3
17	Bergstrom B, de la Cruz JS, Sally M, Louis S, Friedman M, Petersen F, et al. The Use of Stroke Volume Variation to Guide Donor Management Is Associated With Increased Organs Transplanted per Donor. Progress in Transplantation. 2017;27(2):200–6.	7
18	Biais M, Mazocky E, Stecken L, Pereira B, Sesay M, Roullet S, et al. Impact of Systemic Vascular Resistance on the Accuracy of the Pulsioflex Device. Anesthesia & Analgesia. 2017;124(2):487–93.	3
19	Biais M, Nouette-Gaulain K, Cottenceau V, Revel P, Szark F. Uncalibrated pulse contour-derived stroke volume variation predicts fluid responsiveness in mechanically ventilated patients undergoing liver transplantation. British Journal of Anaesthesia. 2008;101(6):761–8.	3
20	Biais M, Nouette-Gaulain K, Cottenceau V, Vallet A, Cochard JF, Revel P, et al. Cardiac output measurement in patients undergoing liver transplantation: pulmonary artery catheter versus uncalibrated arterial pressure waveform analysis. Anesthesia & Analgesia. 2008;106(5):1480–6.	3
21	Biais M, Nouette-Gaulain K, Quinart A, Roullet S, Revel P, Szark F. Uncalibrated stroke volume variations are able to predict the hemodynamic effects of positive end-expiratory pressure in patients with acute lung injury or acute respiratory distress syndrome after liver transplantation. Anesthesiology. 2009;111(4):855–62.	3
22	Biancofiore G, Critchley LA, Lee A, Bindi L, Bisa M, Esposito M, et al. Evaluation of an uncalibrated arterial pulse contour cardiac output monitoring system in cirrhotic patients undergoing liver surgery. British Journal of Anaesthesia. 2009;102(1):47–54.	3
23	Biancofiore G, Critchley LAH, Lee A, Yang XX, Bindi LM, Esposito M, et al. Evaluation of a new software version of the FloTrac/Vigileo (version 3.02) and a comparison with previous data in cirrhotic patients undergoing liver transplant surgery. Anesthesia and Analgesia. 2011;113(3):515–22.	3
24	Boisson M, Pontier B, Kerforne T, Frasca D. Comparison of noninvasive and minimally invasive pulse contour analysis to measure stroke volume during major surgery: A prospective observational study. European Journal of Anaesthesiology. 2018;35(11):895–6.	4
25	Botsch A, Firstenberg MS. Comment on the Edwards FloTrac TM /Vigileo versus pulmonary artery catheter study: What is really going on with this patient?	2

연번	서지정보	배제 사유
26	International Journal of Critical Illness and Injury Science. 2017;7(3):183-4. Boyle M, Lawrence J, Belessis A, Murgo M, Shehabi Y. Comparison of dynamic measurements of pulse contour with pulsed heat continuous cardiac output in postoperative cardiac surgical patients. Australian Critical Care. 2007;20(1):27-32.	4
27	Bremer F, Schiele A, Tschaikowsky K. Cardiac output measurement by pulse dye densitometry: a comparison with the Fick's principle and thermodilution method. Intensive Care Medicine. 2002;28(4):399-405.	3
28	Breukers RM, Groeneveld AB, de Wilde RB, Jansen JR. Transpulmonary versus continuous thermodilution cardiac output after valvular and coronary artery surgery. Interactive Cardiovascular & Thoracic Surgery. 2009;9(1):4-8.	4
29	Breukers RM, Sepehrkhous S, Spiegelenberg SR, Groeneveld AB. Cardiac output measured by a new arterial pressure waveform analysis method without calibration compared with thermodilution after cardiac surgery. Journal of Cardiothoracic & Vascular Anesthesia. 2007;21(5):632-5.	3
30	Broch O, Carstens A, Gruenewald M, Nischelsky E, Vellmer L, Bein B, et al. Non-invasive hemodynamic optimization in major abdominal surgery: a feasibility study. Minerva anestesiologica. 2016;82(11):1158-69.	3
31	Brock-Utne JG, Blake GT, Bosenberg AT, Gaffin SL, Humphrey D, Downing JW. An evaluation of the pulse-contour method of measuring cardiac output. South African Medical Journal. Suid-Afrikaanse Tydskrif Vir Geneeskunde. 1984;66(12):451-3.	3
32	Buhre W, Weyland A, Kazmaier S, Hanekop GG, Baryalei MM, Sydow M, et al. Comparison of cardiac output assessed by pulse-contour analysis and thermodilution in patients undergoing minimally invasive direct coronary artery bypass grafting. Journal of Cardiothoracic & Vascular Anesthesia. 1999;13(4):437-40.	4
33	Button D, Weibel L, Reuthebuch O, Genoni M, Zollinger A, Hofer CK. Clinical evaluation of the FloTrac/Vigileo system and two established continuous cardiac output monitoring devices in patients undergoing cardiac surgery. British Journal of Anaesthesia. 2007;99(3):329-36.	4
34	Cannesson M, Attof Y, Rosamel P, Joseph P, Bastien O, Lehut JJ. Comparison of FloTrac cardiac output monitoring system in patients undergoing coronary artery bypass grafting with pulmonary artery cardiac output measurements. European Journal of Anaesthesiology. 2007;24(10):832-9.	3
35	Cannesson M, Musard H, Desebbe O, Boucau C, Simon R, Henaine R, et al. The ability of stroke volume variations obtained with Vigileo/FloTrac system to monitor fluid responsiveness in mechanically ventilated patients. Anesthesia & Analgesia. 2009;108(2):513-7.	4
36	Cecconi M, Dawson D, Casaretti R, Grounds RM, Rhodes A. A prospective study of the accuracy and precision of continuous cardiac output monitoring devices as compared to intermittent thermodilution. Minerva Anestesiologica. 2010;76(12):1010-7.	3
37	Cecconi M, Fasano N, Langiano N, Divella M, Costa MG, Rhodes A, et al. Goal-directed haemodynamic therapy during elective total hip arthroplasty under regional anaesthesia. Critical Care (London, England). 2011;15(3):R132.	3
38	Chakravarthy M, Patil TA, Jayaprakash K, Kalligudd P, Prabhakumar D, Jawali V. Comparison of simultaneous estimation of cardiac output by four techniques in patients undergoing off-pump coronary artery bypass surgery-a prospective observational study. Annals of Cardiac Anaesthesia. 2007;10(2):121-6.	3
39	Chakravarthy M, Rajeev S, Jawali V. Cardiac index value measurement by invasive, semi-invasive and non invasive techniques: a prospective study in postoperative off pump coronary artery bypass surgery patients. Journal of Clinical Monitoring & Computing. 2009;23(3):175-80.	3
40	Chiao HY, Chou CY, Tzeng YS, Wang CH, Chen SG, Dai NT. Goal-Directed Fluid Resuscitation Protocol Based on Arterial Waveform Analysis of Major Burn Patients in a Mass Burn Casualty. Annals of Plastic Surgery. 2018;80(2S Suppl 1):S21-S5.	4
41	Cho YJ, Koo CH, Kim TK, Hong DM, Jeon Y. Comparison of cardiac output measures by transpulmonary thermodilution, pulse contour analysis, and pulmonary artery thermodilution during off-pump coronary artery bypass surgery: a subgroup analysis of the	3

연번	서지정보	배제 사유
	cardiovascular anaesthesia registry at a single tertiary centre. <i>Journal of Clinical Monitoring & Computing.</i> 2016;30(6):771–82.	
42	Chui J, Craen R, Dy-Valdez C, Alamri R, Boulton M, Pandey S, et al. Early goal-directed therapy during endovascular coiling procedures following aneurysmal subarachnoid hemorrhage: A pilot prospective randomized controlled study. <i>Journal of Neurosurgical Anesthesiology.</i> 2022;34(1):35–43.	3
43	Compton F, Wittrock M, Schaefer JH, Zidek W, Tepel M, Scholze A. Noninvasive cardiac output determination using applanation tonometry-derived radial artery pulse contour analysis in critically ill patients. <i>Anesthesia & Analgesia.</i> 2008;106(1):171–4.	4
44	Cottis R, Magee N, Higgins DJ. Haemodynamic monitoring with pulse-induced contour cardiac output (PiCCO) in critical care. <i>Intensive & Critical Care Nursing.</i> 2003;19(5):301–7.	2
45	Csontos C, Foldi V, Fischer T, Bogar L. Arterial thermodilution in burn patients suggests a more rapid fluid administration during early resuscitation. <i>Acta Anaesthesiologica Scandinavica.</i> 2008;52(6):742–9.	3
46	De Backer D, Marx G, Tan A, Junker C, Van Nuffelen M, Huter L, et al. Arterial pressure-based cardiac output monitoring: a multicenter validation of the third-generation software in septic patients. <i>Intensive Care Medicine.</i> 2011;37(2):233–40.	3
47	de Waal EEC, Frank M, Scheeren TWL, Kaufmann T, de Korte DJD, Cox B, et al. Perioperative goal-directed therapy in high-risk abdominal surgery. A multicenter randomized controlled superiority trial. <i>Journal of Clinical Anesthesia.</i> 2021;75 (no pagination)(110506).	3
48	de Wilde RB, Geerts BF, van den Berg PC, Jansen JR. A comparison of stroke volume variation measured by the LiDCOplus and FloTrac–Vigileo system. <i>Anaesthesia.</i> 2009;64(9):1004–9.	4
49	de Wilde RB, Schreuder JJ, van den Berg PC, Jansen JR. An evaluation of cardiac output by five arterial pulse contour techniques during cardiac surgery. <i>Anaesthesia.</i> 2007;62(8):760–8.	4
50	Della Rocca G, Costa GM, Coccia C, Pompei L, Di Marco P, Pietropaoli P. Preload index: pulmonary artery occlusion pressure versus intrathoracic blood volume monitoring during lung transplantation. <i>Anesthesia & Analgesia.</i> 2002;95(4):835–43, table of contents.	4
51	Della Rocca G, Costa MG, Chiarandini P, Bertossi G, Lugano M, Pompei L, et al. Arterial pulse cardiac output agreement with thermodilution in patients in hyperdynamic conditions. <i>Journal of Cardiothoracic & Vascular Anesthesia.</i> 2008;22(5):681–7.	3
52	Della Rocca G, Costa MG, Coccia C, Pompei L, Di Marco P, Vilardi V, et al. Cardiac output monitoring: aortic transpulmonary thermodilution and pulse contour analysis agree with standard thermodilution methods in patients undergoing lung transplantation. <i>Canadian Journal of Anaesthesia.</i> 2003;50(7):707–11.	4
53	Della Rocca G, Costa MG, Coccia C, Pompei L, Pietropaoli P. Preload and haemodynamic assessment during liver transplantation: a comparison between the pulmonary artery catheter and transpulmonary indicator dilution techniques. <i>European Journal of Anaesthesiology.</i> 2002;19(12):868–75.	4
54	Della Rocca G, Costa MG, Pompei L, Coccia C, Pietropaoli P. Continuous and intermittent cardiac output measurement: pulmonary artery catheter versus aortic transpulmonary technique. <i>British Journal of Anaesthesia.</i> 2002;88(3):350–6.	4
55	Desebbe O, Henaine R, Keller G, Koffel C, Garcia H, Rosamel P, et al. Ability of the third-generation FloTrac/Vigileo software to track changes in cardiac output in cardiac surgery patients: a polar plot approach. <i>Journal of Cardiothoracic & Vascular Anesthesia.</i> 2013;27(6):1122–7.	3
56	Diaz S, Perez-Pena J, Sanz J, Olmedilla L, Garutti I, Barrio JM. Haemodynamic monitoring and liver function evaluation by pulsion cold system Z-201 (PCS) during orthotopic liver transplantation. <i>Clinical Transplantation.</i> 2003;17(1):47–55.	3
57	Donati A, Carsetti A, Tondi S, Scorcetta C, Domizi R, Damiani E, et al. Thermodilution vs pressure recording analytical method in hemodynamic stabilized patients. <i>Journal of Critical Care.</i> 2014;29(2):260–4.	4
58	Ebm C, Cecconi M, Sutton L, Rhodes A. A cost-effectiveness analysis of postoperative goal-directed therapy for high-risk surgical patients. <i>Critical Care Medicine.</i>	3

연번	서지정보	배제 사유
59	2014;42(5):1194-203. Edanaga M, Hayashi H, Yamakage M. Usefulness of Flotrac/VigileoTM combined with transesophageal echocardiography under abdominal hysterectomy for a patient complicated with moyamoya disease and hypertrophic cardiomyopathy. <i>Anesthesia and Resuscitation.</i> 2013;49(4):101-3.	6
60	Eiferman DS, Davido HT, Howard JM, Gerckens J, Evans DC, Cook CH, et al. Two Methods of Hemodynamic and Volume Status Assessment in Critically Ill Patients: A Study of Disagreement. <i>Journal of Intensive Care Medicine.</i> 2016;31(2):113-7.	3
61	Eisenried A, Klarwein R, Ihmsen H, Wehrfritz A, Tandler R, Heim C, et al. Accuracy and Trending Ability of the Fourth-Generation FloTrac/EV1000 System in Patients With Severe Aortic Valve Stenosis Before and After Surgical Valve Replacement. <i>Journal of Cardiothoracic & Vascular Anesthesia.</i> 2019;33(5):1230-6.	3
62	Eleftheriadis S, Galatoudis Z, Didilis V, Bougioukas I, Schon J, Heinze H, et al. Variations in arterial blood pressure are associated with parallel changes in FlowTrac/Vigileo-derived cardiac output measurements: a prospective comparison study. <i>Critical Care (London, England).</i> 2009;13(6):R179.	3
63	Elgendi MA, Esmat IM, Kassim DY. Outcome of intraoperative goal-directed therapy using Vigileo/FloTrac in high-risk patients scheduled for major abdominal surgeries: A prospective randomized trial. <i>Egyptian Journal of Anaesthesia.</i> 2017;33(3):263-9.	3
64	Felbinger TW, Reuter DA, Eltzschig HK, Bayerlein J, Goetz AE. Cardiac index measurements during rapid preload changes: a comparison of pulmonary artery thermodilution with arterial pulse contour analysis. <i>Journal of Clinical Anesthesia.</i> 2005;17(4):241-8.	4
65	Felbinger TW, Reuter DA, Eltzschig HK, Moerstedt K, Goedje O, Goetz AE. Comparison of pulmonary arterial thermodilution and arterial pulse contour analysis: evaluation of a new algorithm. <i>Journal of Clinical Anesthesia.</i> 2002;14(4):296-301.	3
66	Fischer MO, Diouf M, Wilde RBP, Dupont H, Hanouz JL, Lorne E. Evaluation of cardiac output by 5 arterial pulse contour techniques using trend interchangeability method. <i>Medicine.</i> 2016;95(25):e3530.	4
67	Fletcher AM, Andrews J, Frampton AE. Individualizing hemodynamic optimization during the management of circulatory collapse. <i>Expert Review of Cardiovascular Therapy.</i> 2012;10(10):1217-20.	4
68	Franchi F, Silvestri R, Cubattoli L, Taccone FS, Donadello K, Romano SM, et al. Comparison between an uncalibrated pulse contour method and thermodilution technique for cardiac output estimation in septic patients. <i>British Journal of Anaesthesia.</i> 2011;107(2):202-8.	3
69	Friesecke S, Heinrich A, Abel P, Felix SB. Comparison of pulmonary artery and aortic transpulmonary thermodilution for monitoring of cardiac output in patients with severe heart failure: validation of a novel method. <i>Critical Care Medicine.</i> 2009;37(1):119-23.	4
70	Froghi F, Gopalan V, Anastasiou Z, Koti R, Gurusamy K, Eastgate C, et al. Effect of post-operative goal-directed fluid therapy (GDFT) on organ function after orthotopic liver transplantation: Secondary outcome analysis of the COLT randomised control trial. <i>International Journal of Surgery.</i> 2022;99 (no pagination)(106265).	3
71	Froghi F, Soggiu F, Ricciardi F, Vindrola-Padros C, Floros L, Martin D, et al. Ward based goal directed fluid therapy (GDFT) in acute pancreatitis (GAP) trial: a feasibility randomised controlled trial. <i>International journal of surgery (London, England).</i> 2022;104:106737.	3
72	Fuest KE, Servatius A, Ulm B, Schaller SJ, Jungwirth B, Blobner M, et al. Perioperative Hemodynamic Optimization in Patients at Risk for Delirium – A Randomized–Controlled Trial. <i>Frontiers in Medicine.</i> 2022;9:893459.	3
73	Fuhrer H, Gunther A, Zinke J, Niesen WD. Optimizing cardiac out-put to increase cerebral penumbral perfusion in large middle cerebral artery ischemic lesion–OPTIMAL Study. <i>Frontiers in Neurology.</i> 2017;8(AUG) (no pagination)(402).	4
74	Funk DJ, HayGlass KT, Koulack J, Harding G, Boyd A, Brinkman R. A randomized controlled trial on the effects of goal-directed therapy on the inflammatory response open abdominal aortic aneurysm repair. <i>Critical Care (London, England).</i> 2015;19:247.	3
75	Ganter MT, Alhashemi JA, Al-Shabasy AM, Schmid UM, Schott P, Shalabi SA, et al.	3

연번	서지정보	배제 사유
	Continuous cardiac output measurement by un-calibrated pulse wave analysis and pulmonary artery catheter in patients with septic shock. <i>Journal of Clinical Monitoring & Computing.</i> 2016;30(1):13-22.	
76	Garcia-Lorenzo B, Fernandez-Barcelo C, Maduell F, Sampietro-Colom L. Health Technology Assessment of a new water quality monitoring technology: Impact of automation, digitalization and remoteness in dialysis units. <i>PLoS ONE [Electronic Resource].</i> 2021;16(2):e0247450.	3
77	Ghneim MH, Regner JL, Jupiter DC, Kang F, Bonner GL, Bready MS, et al. Goal directed fluid resuscitation decreases time for lactate clearance and facilitates early fascial closure in damage control surgery. <i>American Journal of Surgery.</i> 2013;206(6):995-9; discussion 9-1000.	3
78	Ghoreifi A, Basin MF, Ghodoussipour S, Bazargani ST, Amini E, Aslizare M, et al. Perioperative outcomes of goal-directed versus conventional fluid therapy in radical cystectomy with enhanced recovery protocol. <i>International Urology & Nephrology.</i> 2021;53(9):1827-33.	3
79	Giomarelli P, Biagioli B, Scolletta S. Cardiac output monitoring by pressure recording analytical method in cardiac surgery. <i>European Journal of Cardio-Thoracic Surgery.</i> 2004;26(3):515-20.	3
80	Giustiniano E, Procopio F, Ruggieri N, Grimaldi S, Torzilli G, Raimondi F. Impact of the FloTrac/VigileoTM Monitoring on Intraoperative Fluid Management and Outcome after Liver Resection. <i>Digestive Surgery.</i> 2018;35(5):435-41.	3
81	Godje O, Hoke K, Lamm P, Schmitz C, Thiel C, Weinert M, et al. Continuous, less invasive, hemodynamic monitoring in intensive care after cardiac surgery. <i>Thoracic & Cardiovascular Surgeon.</i> 1998;46(4):242-9.	4
82	Godje O, Thiel C, Lamm P, Reichenasperger H, Schmitz C, Schutz A, et al. Less invasive, continuous hemodynamic monitoring during minimally invasive coronary surgery. <i>Annals of Thoracic Surgery.</i> 1999;68(4):1532-6.	4
83	Goedje O, Hoeke K, Lichtwarck-Aschoff M, Faltchauser A, Lamm P, Reichart B. Continuous cardiac output by femoral arterial thermodilution calibrated pulse contour analysis: comparison with pulmonary arterial thermodilution. <i>Critical Care Medicine.</i> 1999;27(11):2407-12.	3
84	Gratz I, Krajin J, Jacobi AG, deCastro NG, Spagna P, Larijani GE. Continuous noninvasive cardiac output as estimated from the pulse contour curve. <i>Journal of Clinical Monitoring.</i> 1992;8(1):20-7.	3
85	Grewe G, Luehsen K, Hapfelmeier A, Rogge D, Kubik M, Schulte-Uentrop L, et al. Cardiac output estimation by pulse wave analysis using the pressure recording analytical method and intermittent pulmonary artery thermodilution: A method comparison study after off-pump coronary artery bypass surgery. <i>European Journal of Anaesthesiology.</i> 2020;37(10):920-5.	3
86	Grigorov Tzenkov I, Arnal Velasco D, Perez Pena JM, Olmedilla Arnal L, Garutti Martinez I, Sanz Fernandez J. Cardiac output by femoral arterial thermodilution-calibrated pulse contour analysis during liver transplantation: comparison with pulmonary artery thermodilution. <i>Transplantation Proceedings.</i> 2003;35(5):1920-2.	4
87	Gruenewald M, Renner J, Meybohm P, Hocker J, Scholz J, Bein B. Reliability of continuous cardiac output measurement during intra-abdominal hypertension relies on repeated calibrations: An experimental animal study. <i>Critical Care.</i> 2008;12(5) (no pagination)(R132).	1
88	Grundmann CD, Wischermann JM, Fassbender P, Bischoff P, Frey UH. Hemodynamic monitoring with Hypotension Prediction Index versus arterial waveform analysis alone and incidence of perioperative hypotension. <i>Acta Anaesthesiologica Scandinavica.</i> 2021;65(10):1404-12.	4
89	Gupta P, Chaudhari SH, Nagar V, Jain D, Bansal A, Dutt A. Prospective analysis of goal-directed fluid therapy vs conventional fluid therapy in perioperative outcome of composite resections of head and neck malignancy with free tissue transfer. <i>Indian Journal of Anaesthesia.</i> 2021;65(8):606-11.	3
90	Gust R, Gottschalk A, Bauer H, Bottiger BW, Bohrer H, Martin E. Cardiac output measurement by transpulmonary versus conventional thermodilution technique in intensive	4

연번	서지정보	배제 사유
	care patients after coronary artery bypass grafting. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 1998;12(5):519-22.	
91	Hadian M, Kim HK, Severyn DA, Pinsky MR. Cross-comparison of cardiac output trending accuracy of LiDCO, PiCCO, FloTrac and pulmonary artery catheters. <i>Critical Care (London, England)</i> . 2010;14(6):R212.	3
92	Haenggi M, Barthelmes D, Ulmer H, Takala J, Jakob SM. Comparison of non-calibrated pulse-contour analysis with continuous thermodilution for cardiac output assessment in patients with induced hypothermia after cardiac arrest. <i>Resuscitation</i> . 2011;82(4):423-6.	3
93	Halemani K, Kumar L, Narayanan B, Rajan S, Ramamurthi P, Sudhakar A. Correlation of Cardiac Output by Arterial Contour-Derived Cardiac Output Monitor Versus Pulmonary Artery Catheter in Liver Transplant: Experience at an Indian Center. <i>Turk Anestezi Ve Reanimasyon Dergisi</i> . 2022;50(2):135-41.	3
94	Halvorsen PS, Espinoza A, Lundblad R, Cvancarova M, Hol PK, Fosse E, et al. Agreement between PiCCO pulse-contour analysis, pulmonal artery thermodilution and transthoracic thermodilution during off-pump coronary artery by-pass surgery. <i>Acta Anaesthesiologica Scandinavica</i> . 2006;50(9):1050-7.	4
95	Halvorsen PS, Sokolov A, Cvancarova M, Hol PK, Lundblad R, Tonnessen TI. Continuous cardiac output during off-pump coronary artery bypass surgery: pulse-contour analyses vs pulmonary artery thermodilution. <i>British Journal of Anaesthesia</i> . 2007;99(4):484-92.	4
96	Hamilton TT, Huber LM, Jessen ME. PulseCO: a less-invasive method to monitor cardiac output from arterial pressure after cardiac surgery. <i>Annals of Thoracic Surgery</i> . 2002;74(4):S1408-12.	3
97	Hamm JB, Nguyen BV, Kiss G, Wargnier JP, Jauffroy A, Helaine L, et al. Assessment of a cardiac output device using arterial pulse waveform analysis, Vigileo, in cardiac surgery compared to pulmonary arterial thermodilution. <i>Anaesthesia & Intensive Care</i> . 2010;38(2):295-301.	3
98	Heijne A, Krijtenburg P, Bremers A, Scheffer GJ, Malagon I, Slagt C. Four different methods of measuring cardiac index during cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. <i>Korean J Anesthesiol</i> . 2021 Apr;74(2):120-133.	4
99	Heise D, Faulstich M, Morer O, Brauer A, Quintel M. Influence of continuous renal replacement therapy on cardiac output measurement using thermodilution techniques. <i>Minerva Anestesiologica</i> . 2012;78(3):315-21.	4
100	Herold IH, Soliman Hamad MA, van Assen HC, Bouwman RA, Korsten HH, Mischi M. Pulmonary blood volume measured by contrast enhanced ultrasound: a comparison with transpulmonary thermodilution. <i>British Journal of Anaesthesia</i> . 2015;115(1):53-60.	4
101	Hilty MP, Franzen DP, Wyss C, Biaggi P, Maggiorini M. Validation of transpulmonary thermodilution variables in hemodynamically stable patients with heart diseases. <i>Annals of Intensive Care</i> . 2017;7(1):86.	4
102	Hofer CK, Button D, Weibel L, Genoni M, Zollinger A. Uncalibrated radial and femoral arterial pressure waveform analysis for continuous cardiac output measurement: an evaluation in cardiac surgery patients. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2010;24(2):257-64.	3
103	Hofer CK, Furrer L, Matter-Ensner S, Maloigne M, Klaghofler R, Genoni M, et al. Volumetric preload measurement by thermodilution: a comparison with transoesophageal echocardiography. <i>British Journal of Anaesthesia</i> . 2005;94(6):748-55.	4
104	Holm C, Melcer B, Horbrand F, Henckel von Donnersmarck G, Muhlbauer W. Arterial thermodilution: an alternative to pulmonary artery catheter for cardiac output assessment in burn patients. <i>Burns</i> . 2001;27(2):161-6.	4
105	Huang CC, Chen NH, Li LF, Yang CT, Hsiao HF, Chen YH, et al. Effects of cardiac output levels on the measurement of transpulmonary thermodilution cardiac output in patients with acute respiratory distress syndrome. <i>The Journal of Trauma and Acute Care Surgery</i> . 2012;73(5):1236-41.	4
106	Huang CC, Kao KC, Fu JY, Hsieh MJ. Effects of extravascular lung water on the measurement of transpulmonary thermodilution cardiac output in acute respiratory distress syndrome patients. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2011;25(3):481-5.	4
107	Huang DT, Clermont G, Dremsizov TT, Angus DC, Pro Cl. Implementation of early	3

연번	서지정보	배제 사유
	goal-directed therapy for severe sepsis and septic shock: A decision analysis. Critical Care Medicine. 2007;35(9):2090–100.	
108	Huber W, Koenig J, Mair S, Schuster T, Saugel B, Eyer F, et al. Predictors of the accuracy of pulse-contour cardiac index and suggestion of a calibration-index: a prospective evaluation and validation study. BMC Anesthesiology. 2015;15:45.	4
109	Imai E, Morohashi Y, Mishima K, Ozaki T, Igarashi K, Wakabayashi G. A goal-directed therapy protocol for preventing acute kidney injury after laparoscopic liver resection: a retrospective observational cohort study. Surgery Today. 2022;52(9):1262–74.	3
110	Ishihara H, Okawa H, Tanabe K, Tsubo T, Sugo Y, Akiyama T, et al. A new non-invasive continuous cardiac output trend solely utilizing routine cardiovascular monitors. Journal of Clinical Monitoring & Computing. 2004;18(5–6):313–20.	3
111	Ishihara H, Sugo Y, Tsutsui M, Yamada T, Sato T, Akazawa T, et al. The ability of a new continuous cardiac output monitor to measure trends in cardiac output following implementation of a patient information calibration and an automated exclusion algorithm. Journal of Clinical Monitoring and Computing. 2012;26(6):465–71.	3
112	Isosu T, Obara S, Ohashi S, Hosono A, Nakano Y, Imaizumi T, et al. Examination of the usefulness of non-invasive stroke volume variation monitoring for adjusting fluid supplementation during laparoscopic adrenalectomy in patients with pheochromocytoma. Fukushima Journal of Medical Science. 2012;58(1):78–81.	4
113	Jammer I, Tuovila M, Ulvik A. Stroke volume variation to guide fluid therapy: is it suitable for high-risk surgical patients? A terminated randomized controlled trial. Perioperative Medicine. 2015;4:6.	3
114	Jeong YB, Kim TH, Roh YJ, Choi IC, Suh JH. Comparison of uncalibrated arterial pressure waveform analysis with continuous thermodilution cardiac output measurements in patients undergoing elective off-pump coronary artery bypass surgery. Journal of Cardiothoracic & Vascular Anesthesia. 2010;24(5):767–71.	3
115	Jiang Z, Chen J, Gao C, Tan M, Zhang W, Xie Y. Effects of PICCO in the guidance of goal-directed fluid therapy for gastrointestinal function after cytoreductive surgery for ovarian cancer. American Journal Of Translational Research. 2021;13(5):4852–9.	3
116	Jo YY, Song JW, Yoo YC, Park JY, Shim JK, Kwak YL. The uncalibrated pulse contour cardiac output during off-pump coronary bypass surgery: performance in patients with a low cardiac output status and a reduced left ventricular function. Korean Journal of Anesthesiology. 2011;60(4):237–43.	3
117	Joosten A, Hafiane R, Pustetto M, Van Obbergh L, Quackels T, Buggenhout A, et al. Practical impact of a decision support for goal-directed fluid therapy on protocol adherence: a clinical implementation study in patients undergoing major abdominal surgery. Journal of Clinical Monitoring & Computing. 2019;33(1):15–24.	3
118	Jung HS, Kim CW, Kim TY. Is radial artery pressure waveform derived cardiac index is reliable during cardiac surgery with hypothermic cardiopulmonary bypass? Korean J Anesthesiol. 2009. 57(1): 44–9.	3
119	Kapoor P, Magoon R, Rawat R, Mehta Y, Taneja S, Ravi R, et al. Goal-directed therapy improves the outcome of high-risk cardiac patients undergoing off-pump coronary artery bypass. Annals of Cardiac Anaesthesia. 2017;20(1):83–9.	3
120	Kapoor PM, Kakani M, Chowdhury U, Choudhury M, Lakshmy, Kiran U. Early goal-directed therapy in moderate to high-risk cardiac surgery patients. Annals of Cardiac Anaesthesia. 2008;11(1):27–34.	3
121	Kapoor PM, Magoon R, Rawat R, Mehta Y. Perioperative utility of goal-directed therapy in high-risk cardiac patients undergoing coronary artery bypass grafting: "A clinical outcome and biomarker-based study". Annals of Cardiac Anaesthesia. 2016;19(4):638–82.	3
122	Kim DW, Lee WK, Kim JY, Kim JL, Park SJ, Tak SJ. The comparison of cardiac outputs between impedance cardiography and thermodilution technique. J of KOSOMBE.9(2):165–9.	3
123	Kim S, Song J, Ji S, Kwon MA, Nam D. Efficacy of minimal invasive cardiac output and ScVO ₂ monitoring during controlled hypotension for double-jaw surgery. Journal of Dental Anesthesia & Pain Medicine. 2019;19(6):353–60.	3
124	Kirton OC, Calabrese RC, Staff I. Increasing use of less-invasive hemodynamic monitoring in 3 specialty surgical intensive care units: a 5-year experience at a tertiary medical center.	4

연번	서지정보	배제 사유
125	Journal of Intensive Care Medicine. 2015;30(1):30–6. Kitaguchi K, Gotohda N, Yamamoto H, Kato Y, Takahashi S, Konishi M, et al. Intraoperative circulatory management using the FloTrac TM system in laparoscopic liver resection. Asian Journal of Endoscopic Surgery. 2015;8(2):164–70.	4
126	Kratz T, Hinterobermaier J, Timmesfeld N, Kratz C, Wulf H, Steinfeldt T, et al. Pre-operative fluid bolus for improved haemodynamic stability during minor surgery: A prospectively randomized clinical trial. Acta Anaesthesiologica Scandinavica. 2018;62(9):1215–22.	4
127	Kratz T, Simon C, Fendrich V, Schneider R, Wulf H, Kratz C, et al. Implementation and effects of pulse-contour- automated SVV/Cl guided goal directed fluid therapy algorithm for the routine management of pancreatic surgery patients. Technology and Health Care. 2016;24(6):899–907.	3
128	Krejci V, Vannucci A, Abbas A, Chapman W, Kangrga IM. Comparison of calibrated and uncalibrated arterial pressure-based cardiac output monitors during orthotopic liver transplantation. Liver Transplantation. 2010;16(6):773–82.	3
129	Kroon M, Groeneveld AB, Smulders YM. Cardiac output measurement by pulse dye densitometry: comparison with pulmonary artery thermodilution in post-cardiac surgery patients. Journal of Clinical Monitoring & Computing. 2005;19(6):395–9.	3
130	Kumar L, Rajan S, Baalachandran R. Outcomes associated with stroke volume variation versus central venous pressure guided fluid replacements during major abdominal surgery. Journal of Anaesthesiology Clinical Pharmacology. 2016;32(2):182–6.	3
131	Kuntscher MV, Blome-Eberwein S, Pelzer M, Erdmann D, Germann G. Transcardiopulmonary vs pulmonary arterial thermodilution methods for hemodynamic monitoring of burned patients. Journal of Burn Care & Rehabilitation. 2002;23(1):21–6.	4
132	Kusaka Y, Ohchi F, Minami T. Evaluation of the Fourth-Generation FloTrac/Vigileo System in Comparison With the Intermittent Bolus Thermodilution Method in Patients Undergoing Cardiac Surgery. Journal of Cardiothoracic & Vascular Anesthesia. 2019;33(4):953–60.	3
133	Lahtinen SL, Liisanantti JH, Poukkanen MM, Laurila PA. Goal-directed fluid management in free flap surgery for cancer of the head and neck. Minerva Anestesiologica. 2017;83(1):59–68.	3
134	Lamia B, Kim HK, Severyn DA, Pinsky MR. Cross-comparisons of trending accuracies of continuous cardiac-output measurements: pulse contour analysis, bioreactance, and pulmonary-artery catheter. Journal of Clinical Monitoring & Computing. 2018;32(1):33–43.	3
135	Landais A, Morel M, Goldstein J, Loriau J, Fresnel A, Chevalier C, et al. Evaluation of financial burden following complications after major surgery in France: Potential return after perioperative goal-directed therapy. Anaesthesia Critical Care & Pain Medicine. 2017;36(3):151–5.	4
136	Lavi R, Cheng D. Pro: Continuous cardiac output and SvO ₂ monitoring should be routine during off-pump coronary artery bypass graft surgery. Journal of Cardiothoracic and Vascular Anesthesia. 2012;26(6):1131–5.	2
136	Lee HJ, Cho HS. Cardiac output measurement by thermodilution. 대한구급의학회지. 1988;3(2):125–32.	3
138	Lee KY, Yoo YC, Cho JS, Lee W, Kim JY, Kim MH. The effect of intraoperative fluid management according to stroke volume variation on postoperative bowel function recovery in colorectal cancer surgery. Journal of Clinical Medicine. 2021;10(9) (no pagination)(1857).	3
139	Lee M, Weinberg L, Pearce B, Scurrah N, Story DA, Pillai P, et al. Agreement in hemodynamic monitoring during orthotopic liver transplantation: a comparison of FloTrac/Vigileo at two monitoring sites with pulmonary artery catheter thermodilution. Journal of Clinical Monitoring & Computing. 2017;31(2):343–51.	3
140	Legrand G, Ruscio L, Benhamou D, Pelletier-Fleury N. Goal-Directed Fluid Therapy Guided by Cardiac Monitoring During High-Risk Abdominal Surgery in Adult Patients: Cost-Effectiveness Analysis of Esophageal Doppler and Arterial Pulse Pressure Waveform Analysis. Value in Health. 2015;18(5):605–13.	3
141	Li T, Cai H, Pan H, Pu Q. Cardiac output measurement using a modified carbon dioxide Fick method: comparison analysis with pulmonary artery catheter method and pulse	4

연번	서지정보	배제 사유
	induced contour cardiac output method. International journal of clinical and experimental medicine. 2015;8(3):3530-7.	
142	Lian L, Wang Y, Ning X. A retrospective study from a single center of 252 patients who underwent elective pancreaticoduodenectomy to compare perioperative hemodynamic optimization therapy and usual protocols in terms of perioperative cardiac function. Experimental and Therapeutic Medicine. 2022;24(5) (no pagination)(696).	3
143	Liang M, Li Y, Lin L, Lin X, Wu X, Gao Y, et al. Effect of goal-directed fluid therapy on the prognosis of elderly patients with hypertension receiving plasmakinetic energy transurethral resection of prostate. International Journal of Clinical and Experimental Medicine. 2017;10(1):1290-6.	3
144	Lin SY, Chou AH, Tsai YF, Chang SW, Yang MW, Ting PC, et al. Evaluation of the use of the fourth version FloTrac system in cardiac output measurement before and after cardiopulmonary bypass. Journal of Clinical Monitoring & Computing. 2018;32(5):807-15.	3
145	Liu X, Ji W, Wang J, Pan T. Application strategy of PiCCO in septic shock patients. Experimental & Therapeutic Medicine. 2016;11(4):1335-9.	4
146	Liu X, Zhang P, Liu MX, Ma JL, Wei XC, Fan D. Preoperative carbohydrate loading and intraoperative goal-directed fluid therapy for elderly patients undergoing open gastrointestinal surgery: a prospective randomized controlled trial. BMC Anesthesiology. 2021;21(1):157.	3
147	Lorsomradee S, Lorsomradee S, Cromheecke S, De Hert SG. Uncalibrated arterial pulse contour analysis versus continuous thermodilution technique: effects of alterations in arterial waveform. Journal of Cardiothoracic & Vascular Anesthesia. 2007;21(5):636-43.	3
148	Lorsomradee S, Lorsomradee SR, Cromheecke S, De Hert SG. Continuous cardiac output measurement: arterial pressure analysis versus thermodilution technique during cardiac surgery with cardiopulmonary bypass. Anaesthesia. 2007;62(10):979-83.	3
149	Lu JK, Zhu C, Jing H, Wang YJ, Qing EM. Application of intraoperative arterial pressure-based cardiac output monitoring for patients undergoing coronary artery bypass grafting surgery. Chinese Medical Journal. 2012;125(12):2099-103.	3
150	Maass SW, Roekaerts PM, Lance MD. Cardiac output measurement by bioimpedance and noninvasive pulse contour analysis compared with the continuous pulmonary artery thermodilution technique. Journal of Cardiothoracic & Vascular Anesthesia. 2014;28(3):534-9.	3
151	Maeda T, Hamaguchi E, Kubo N, Shimokawa A, Kanazawa H, Ohnishi Y. The accuracy and trending ability of cardiac index measured by the fourth-generation FloTrac/Vigileo system TM and the Fick method in cardiac surgery patients. Journal of Clinical Monitoring & Computing. 2019;33(5):767-76.	3
152	Manecke GR, Jr. Cardiac output from the arterial catheter: deceptively simple. Journal of Cardiothoracic & Vascular Anesthesia. 2007;21(5):629-31.	2
153	Marque S, Cariou A, Chiche JD, Squara P. Comparison between Flotrac-Vigileo and Bioreactance, a totally noninvasive method for cardiac output monitoring. Critical Care (London, England). 2009;13(3):R73.	3
154	Marque S, Gros A, Chimot L, Gacouin A, Lavoue S, Camus C, et al. Cardiac output monitoring in septic shock: evaluation of the third-generation Flotrac-Vigileo. Journal of Clinical Monitoring & Computing. 2013;27(3):273-9.	3
155	Mayer J, Boldt J, Mengistu AM, Rohm KD, Suttner S. Goal-directed intraoperative therapy based on autocalibrated arterial pressure waveform analysis reduces hospital stay in high-risk surgical patients: a randomized, controlled trial. Critical Care (London, England). 2010;14(1):R18.	3
156	Mayer J, Boldt J, Schollhorn T, Rohm KD, Mengistu AM, Suttner S. Semi-invasive monitoring of cardiac output by a new device using arterial pressure waveform analysis: a comparison with intermittent pulmonary artery thermodilution in patients undergoing cardiac surgery. British Journal of Anaesthesia. 2007;98(2):176-82.	5
157	McGee WT, Horswell JL, Calderon J, Janvier G, Van Severen T, Van den Berghe G, et al. Validation of a continuous, arterial pressure-based cardiac output measurement: a multicenter, prospective clinical trial. Critical Care (London, England). 2007;11(5):R105.	3
158	McGee WT, Raghunathan K. Physiologic goal-directed therapy in the perioperative period:	2

연번	서지정보	배제 사유
	The volume prescription for high-risk patients. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> . 2013;27(6):1079–86.	
159	Mehta Y, Chand RK, Sawhney R, Bhise M, Singh A, Trehan N. Cardiac output monitoring: comparison of a new arterial pressure waveform analysis to the bolus thermodilution technique in patients undergoing off-pump coronary artery bypass surgery. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2008;22(3):394–9.	3
160	Mielck F, Buhre W, Hanekop G, Tirilomis T, Hilgers R, Sonntag H. Comparison of continuous cardiac output measurements in patients after cardiac surgery. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2003;17(2):211–6.	4
161	Milam AJ, Ghoddoussi F, Lucaj J, Narreddy S, Kumar N, Reddy V, et al. Comparing the Mutual Interchangeability of ECOM, FloTrac/Vigileo, 3D-TEE, and ITD-PAC Cardiac Output Measuring Systems in Coronary Artery Bypass Grafting. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2021;35(2):514–29.	3
162	Missant C, Rex S, Wouters PF. Accuracy of cardiac output measurements with pulse contour analysis (PulseCO) and Doppler echocardiography during off-pump coronary artery bypass grafting. <i>European Journal of Anaesthesiology</i> . 2008;25(3):243–8.	3
163	Montenij LJ, Buhre WF, De Jong SA, Harms JH, Van Herwaarden JA, Kruitwagen CLJJ, et al. Arterial pressure waveform analysis versus thermodilution cardiac output measurement during open abdominal aortic aneurysm repair: A prospective observational study. <i>European Journal of Anaesthesiology</i> . 2015;32(1):13–9.	3
164	Montenij LJ, Sonneveld JP, Nierich AP, Buhre WF, De Waal EE. Accuracy, Precision, and Trending Ability of Uncalibrated Arterial Pressure Waveform Analysis of Cardiac Output in Patients With Impaired Left Ventricular Function: A Prospective, Observational Study. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2016;30(1):115–21.	3
165	Moppett IK, Rowlands M, Mannings A, Moran CG, Wiles MD, Investigators N. LiDCO-based fluid management in patients undergoing hip fracture surgery under spinal anaesthesia: a randomized trial and systematic review. <i>British Journal of Anaesthesia</i> . 2015;114(3):444–59.	3
166	Mouncey PR, Osborn TM, Power GS, Harrison DA, Sadique MZ, Grieve RD, et al. Protocolised Management In Sepsis (ProMISE): a multicentre randomised controlled trial of the clinical effectiveness and cost-effectiveness of early, goal-directed, protocolised resuscitation for emerging septic shock. <i>Health Technology Assessment (Winchester, England)</i> . 2015;19(97):i–xxv, 1–150.	3
167	Mukkamala R, Kohl BA, Mahajan A. Comparison of accuracy of two uncalibrated pulse contour cardiac output monitors in off-pump coronary artery bypass surgery patients using pulmonary artery catheter-thermodilution as a reference. <i>BMC Anesthesiology</i> . 2021;21(1):189.	3
168	Munoz JL, Gabaldon T, Miranda E, Berrio DL, Ruiz-Tovar J, Ronda JM, et al. Goal-Directed Fluid Therapy on Laparoscopic Sleeve Gastrectomy in Morbidly Obese Patients. <i>Obesity Surgery</i> . 2016;26(11):2648–53.	3
169	Murata Y, Imai T, Takeda C, Mizota T, Kawamoto S. Agreement between continuous cardiac output measured by the fourth-generation FloTrac/Vigileo system and a pulmonary artery catheter in adult liver transplantation. <i>Scientific Reports</i> . 2022;12(1):11198.	3
170	Mutoh T, Kazumata K, Terasaka S, Taki Y, Suzuki A, Ishikawa T. Impact of transpulmonary thermodilution-based cardiac contractility and extravascular lung water measurements on clinical outcome of patients with Takotsubo cardiomyopathy after subarachnoid hemorrhage: a retrospective observational study. <i>Critical Care (London, England)</i> . 2014;18(4):482.	4
171	Nicklas JY, Saugel B. Non-Invasive Hemodynamic Monitoring for Hemodynamic Management in Perioperative Medicine. <i>Frontiers in Medicine</i> . 2017;4:209.	2
172	Oh C, Lee S, Oh P, Chung W, Ko Y, Yoon SH, et al. Comparison between Fourth-Generation FloTrac/Vigileo System and Continuous Thermodilution Technique for Cardiac Output Estimation after Time Adjustment during Off-Pump Coronary Artery Bypass Graft Surgery: A Retrospective Cohort Study. <i>Journal of Clinical Medicine</i> . 2022;11(20):16.	3
173	Opdam HI, Wan L, Bellomo R. A pilot assessment of the FloTrac cardiac output monitoring system. <i>Intensive Care Medicine</i> . 2007;33(2):344–9.	3

연번	서지정보	배제 사유
174	Ordonez-Rufat P, Mancho-Fora N, Tebe-Cordomi C, Polit-Martinez V, Abellan-Lencina R, Fernandez-Alvarez J, et al. Study of the accuracy of a radial arterial pressure waveform cardiac output measurement device after cardiac surgery. <i>Journal Of Cardiothoracic Surgery.</i> 2023;18(1):32.	3
175	Orme RM, Pigott DW, Mihm FG. Measurement of cardiac output by transpulmonary arterial thermodilution using a long radial artery catheter. A comparison with intermittent pulmonary artery thermodilution. <i>Anaesthesia.</i> 2004;59(6):590-4.	4
176	Ostergaard M, Nielsen J, Nygaard E. Pulse contour cardiac output: an evaluation of the FloTrac method. <i>European Journal of Anaesthesiology.</i> 2009;26(6):484-9.	3
177	Ostergaard M, Nielsen J, Rasmussen JP, Berthelsen PG. Cardiac output-pulse contour analysis vs. pulmonary artery thermodilution. <i>Acta Anaesthesiologica Scandinavica.</i> 2006;50(9):1044-9.	4
178	Paarmann H, Groesdonk HV, Sedemund-Adib B, Hanke T, Heinze H, Heringlake M, et al. Lack of agreement between pulmonary arterial thermodilution cardiac output and the pressure recording analytical method in postoperative cardiac surgery patients. <i>British Journal of Anaesthesia.</i> 2011;106(4):475-81.	3
179	Pala S, Aletti F, Toschi N, Guerrisi M, Coniglione F, Dauri M, et al. Comparisons of predictors of fluid responsiveness in major surgery. <i>Annual International Conference Of The IEEE Engineering In Medicine And Biology Society.</i> 2012;2012:3128-30.	4
180	Pauli C, Fakler U, Genz T, Hennig M, Lorenz HP, Hess J. Cardiac output determination in children: equivalence of the transpulmonary thermodilution method to the direct Fick principle. <i>Intensive Care Medicine.</i> 2002;28(7):947-52.	4
181	Pearson KS, Gomez MN, Moyers JR, Carter JG, Tinker JH. A cost/benefit analysis of randomized invasive monitoring for patients undergoing cardiac surgery. <i>Anesthesia & Analgesia.</i> 1989;69(3):336-41.	3
182	Peng K, Li J, Cheng H, Ji FH. Goal-directed fluid therapy based on stroke volume variations improves fluid management and gastrointestinal perfusion in patients undergoing major orthopedic surgery. <i>Medical Principles and Practice.</i> 2014;23(5):413-20.	3
183	Penttila J, Snapir A, Kentala E, Koskenvuo J, Posti J, Scheinin M, et al. Estimation of cardiac output in a pharmacological trial using a simple method based on arterial blood pressure signal waveform: a comparison with pulmonary thermodilution and echocardiographic methods. <i>European Journal of Clinical Pharmacology.</i> 2006;62(6):401-7.	3
184	Perel A, Saugel B, Teboul JL, Malbrain ML, Belda FJ, Fernandez-Mondejar E, et al. The effects of advanced monitoring on hemodynamic management in critically ill patients: a pre and post questionnaire study. <i>Journal of Clinical Monitoring & Computing.</i> 2016;30(5):511-8.	4
185	Petzoldt M, Riedel C, Braeunig J, Haas S, Goepfert MS, Treede H, et al. Dynamic device properties of pulse contour cardiac output during transcatheter aortic valve implantation. <i>Journal of Clinical Monitoring & Computing.</i> 2015;29(3):323-31.	4
186	Petzoldt M, Riedel C, Braeunig J, Haas S, Goepfert MS, Treede H, et al. Stroke volume determination using transcardiopulmonary thermodilution and arterial pulse contour analysis in severe aortic valve disease. <i>Intensive Care Medicine.</i> 2013;39(4):601-11.	4
187	Pohl T, Kozieras J, Sakka SG. Influence of extravascular lung water on transpulmonary thermodilution-derived cardiac output measurement. <i>Intensive Care Medicine.</i> 2008;34(3):533-7.	4
188	Poso T, Winso O, Aroch R, Kesek D. Perioperative fluid guidance with transthoracic echocardiography and pulse-contour device in morbidly obese patients. <i>Obesity Surgery.</i> 2014;24(12):2117-25.	3
189	Power P, Bone A, Simpson N, Yap CH, Gower S, Bailey M. Comparison of pulmonary artery catheter, echocardiography, and arterial waveform analysis monitoring in predicting the hemodynamic state during and after cardiac surgery. <i>International Journal of Critical Illness and Injury Science.</i> 2017;7(3):156-62.	4
190	Prasad C, Radhakrishna N, Pandia MP, Khandelwal A, Singh GP, Bithal PK. The Effect of Goal-Directed Fluid Therapy versus Standard Fluid Therapy on the Cuff Leak Gradient in Patients Undergoing Complex Spine Surgery in Prone Position. <i>Journal of Neurosciences in Rural Practice.</i> 2021;12(4):745-50.	3

연번	서지정보	배제 사유
191	Prasser C, Bele S, Keyl C, Schweiger S, Trabold B, Amann M, et al. Evaluation of a new arterial pressure-based cardiac output device requiring no external calibration. <i>BMC Anesthesiology</i> . 2007;7:9.	3
192	Ramsingh D, Hu H, Yan M, Lauer R, Rabkin D, Gatling J, et al. Perioperative individualized goal directed therapy for cardiac surgery: A historical-prospective, comparative effectiveness study. <i>Journal of Clinical Medicine</i> . 2021;10(3):1-11.	3
193	Ramsingh DS, Sanghvi C, Gamboa J, Cannesson M, Applegate RL, 2nd. Outcome impact of goal directed fluid therapy during high risk abdominal surgery in low to moderate risk patients: a randomized controlled trial. <i>Journal of Clinical Monitoring & Computing</i> . 2013;27(3):249-57.	3
194	Rauch H, Muller M, Fleischer F, Bauer H, Martin E, Bottiger BW. Pulse contour analysis versus thermodilution in cardiac surgery patients. <i>Acta Anaesthesiologica Scandinavica</i> . 2002;46(4):424-9.	4
195	Ritter S, Rudiger A, Maggiorini M. Transpulmonary thermodilution-derived cardiac function index identifies cardiac dysfunction in acute heart failure and septic patients: an observational study. <i>Critical Care (London, England)</i> . 2009;13(4):R133.	4
196	Rocca GD, Chiarandini P. Hemodynamic Monitoring during Liver Transplantation. <i>International Anesthesiology Clinics</i> . 2017;55(2):121-34.	2
197	Rodig G, Prasser C, Keyl C, Liebold A, Hobbahn J. Continuous cardiac output measurement: pulse contour analysis vs thermodilution technique in cardiac surgical patients. <i>British Journal of Anaesthesia</i> . 1999;82(4):525-30.	4
198	Romano SM, Pistolesi M. Assessment of cardiac output from systemic arterial pressure in humans. <i>Critical Care Medicine</i> . 2002;30(8):1834-41.	3
199	Rowan KM, Angus DC, Bailey M, Barnato AE, Bellomo R, Canter RR, et al. Early, goal-directed therapy for septic shock – A patient-level meta-analysis. <i>New England Journal of Medicine</i> . 2017;376(23):2223-34.	2
200	Russo A, Aceto P, Grieco DL, Anzellotti GM, Perilli V, Costantini B, et al. Goal-directed hemodynamic management in patients undergoing primary debulking gynaecological surgery: A matched-controlled precision medicine study. <i>Gynecologic Oncology</i> . 2018;151(2):299-305.	3
201	Sahutoglu C, Turksal E, Kocabas S, Askar FZ. Influence of stroke volume variation on fluid treatment and postoperative complications in thoracic surgery. <i>Therapeutics and Clinical Risk Management</i> . 2018;14:575-81.	3
202	Saka E, Abdullah T, Canbaz M, Aygun E, Dolas I, Sabanci PA, et al. Comparison of arterial blood pressure and cardiac index-based hemodynamic management on cognitive function in elderly patients undergoing spinal surgery: A randomized clinical trial. <i>Minerva Anesthesiologica</i> . 2021;87(7):757-65.	3
203	Sakka SG, Reinhart K, Meier-Hellmann A. Comparison of pulmonary artery and arterial thermodilution cardiac output in critically ill patients. <i>Intensive Care Medicine</i> . 1999;25(8):843-6.	4
204	Sakka SG, Reinhart K, Wegscheider K, Meier-Hellmann A. Is the placement of a pulmonary artery catheter still justified solely for the measurement of cardiac output? <i>Journal of Cardiothoracic and Vascular Anesthesia</i> . 2000;14(2):119-24.	4
205	Salzwedel C, Puig J, Carstens A, Bein B, Molnar Z, Kiss K, et al. Perioperative goal-directed hemodynamic therapy based on radial arterial pulse pressure variation and continuous cardiac index trending reduces postoperative complications after major abdominal surgery: a multi-center, prospective, randomized study. <i>Critical care (London, England)</i> . 2013;17(5):R191.	3
206	Samra T, Arya VK. Comparison of cardiac output estimation by FloTrac/Vigileo TM and intermittent pulmonary artery thermodilution in patient with Takayasu arteritis. <i>Annals of Cardiac Anaesthesia</i> . 2011;14(2):163-4.	6
207	Sander M, Spies CD, Grubitzsch H, Foer A, Muller M, von Heymann C. Comparison of uncalibrated arterial waveform analysis in cardiac surgery patients with thermodilution cardiac output measurements. <i>Critical Care (London, England)</i> . 2006;10(6):R164.	3
208	Sander M, von Heymann C, Foer A, von Dossow V, Grosse J, Dushe S, et al. Pulse contour analysis after normothermic cardiopulmonary bypass in cardiac surgery patients. <i>Critical</i>	4

연번	서지정보	배제 사유
209	Care (London, England). 2005;9(6):R729–34. Saraceni E, Rossi S, Persona P, Dan M, Rizzi S, Meroni M, et al. Comparison of two methods for cardiac output measurement in critically ill patients. British Journal of Anaesthesia. 2011;106(5):690–4.	3
210	Scheeren TW, Wiesenack C, Gerlach H, Marx G. Goal-directed intraoperative fluid therapy guided by stroke volume and its variation in high-risk surgical patients: a prospective randomized multicentre study. Journal of Clinical Monitoring & Computing. 2013;27(3):225–33.	3
211	Schramm S, Albrecht E, Frascarolo P, Chassot PG, Spahn DR. Validity of an arterial pressure waveform analysis device: does the puncture site play a role in the agreement with intermittent pulmonary artery catheter thermodilution measurements? Journal of Cardiothoracic & Vascular Anesthesia. 2010;24(2):250–6.	3
212	Scolletta S, Miraldi F, Romano SM, Muzzi L. Continuous cardiac output monitoring with an uncalibrated pulse contour method in patients supported with mechanical pulsatile assist device. Interactive Cardiovascular & Thoracic Surgery. 2011;13(1):52–6.	3
213	Scully CG, Gomatam S, Forrest S, Strauss DG. Importance of re-calibration time on pulse contour analysis agreement with thermodilution measurements of cardiac output: a retrospective analysis of intensive care unit patients. Journal of Clinical Monitoring & Computing. 2016;30(5):577–86.	3
214	Segal E, Katzenelson R, Berkenstadt H, Perel A. Transpulmonary thermodilution cardiac output measurement using the axillary artery in critically ill patients. Journal of Clinical Anesthesia. 2002;14(3):210–3.	4
215	Senn A, Button D, Zollinger A, Hofer CK. Assessment of cardiac output changes using a modified FloTrac/Vigileo algorithm in cardiac surgery patients. Critical Care (London, England). 2009;13(2):R32.	3
216	Shah S, Bhargava A, Hariharan U, Jain C, Kulkarni A, Gupta N. Goal-directed fluid therapy using transoesophageal echocardiographic inferior venacaval index in patients with low left ventricular ejection fraction undergoing major cytoreductive surgery: A clinical trial. Saudi Journal of Anaesthesia. 2020;14(1):7–14.	4
217	Shih BF, Huang PH, Yu HP, Liu FC, Lin CC, Chung PC, et al. Cardiac Output Assessed by the Fourth-Generation Arterial Waveform Analysis System Is Unreliable in Liver Transplant Recipients. Transplantation Proceedings. 2016;48(4):1170–5.	3
218	Shoemaker WC, Wo CC, Yu S, Farjam F, Thangathurai D. Invasive and noninvasive haemodynamic monitoring of acutely ill sepsis and septic shock patients in the emergency department. European Journal of Emergency Medicine. 2000;7(3):169–75.	3
219	Shoemaker WC, Wo CCJ, Demetriades D, Beez M. Noninvasive haemodynamic monitoring to predict outcome and guide therapy in acute critical illness. International Journal of Intensive Care. 2007;14(1):15–25.	3
220	Sinha AC, Singh PM, Grewal N, Aman M, Dubowitz G. Comparison between continuous non-invasive estimated cardiac output by pulse wave transit time and thermodilution method. Annals of Cardiac Anaesthesia. 2014;17(4):273–7.	3
221	Siranovic M, Kovac J, Gopcevic A, Kelecić M, Vučić M, Kovac N, et al. Constant cardiac output monitoring using the PICCO and LiDCO methods versus PAK in septic patients: when to do calibration? Acta Clinica Croatica. 2011;50(2):267–72.	4
222	Slagt C, Beute J, Hoeksema M, Malagon I, Mulder JW, Groeneveld JA. Cardiac output derived from arterial pressure waveform analysis without calibration vs. thermodilution in septic shock: evolving accuracy of software versions. European Journal of Anaesthesiology. 2010;27(6):550–4.	3
223	Slagt C, de Leeuw MA, Beute J, Rijnsburger E, Hoeksema M, Mulder JW, et al. Cardiac output measured by uncalibrated arterial pressure waveform analysis by recently released software version 3.02 versus thermodilution in septic shock. Journal of Clinical Monitoring & Computing. 2013;27(2):171–7.	3
224	Staier K, Wiesenack C, Gunkel L, Keyl C. Cardiac output determination by thermodilution and arterial pulse waveform analysis in patients undergoing aortic valve replacement. Canadian Journal of Anesthesia. 2008;55(SUPPL. 1):22–8.	3
225	Staier K, Wilhelm M, Wiesenack C, Thoma M, Keyl C. Pulmonary artery vs. transpulmonary	4

연번	서지정보	배제 사유
	thermodilution for the assessment of cardiac output in mitral regurgitation: a prospective observational study. European Journal of Anaesthesiology. 2012;29(9):431–7.	
226	Su BC, Tsai YF, Chen CY, Yu HP, Yang MW, Lee WC, et al. Cardiac output derived from arterial pressure waveform analysis in patients undergoing liver transplantation: validity of a third-generation device. Transplantation Proceedings. 2012;44(2):424–8.	3
227	Suehiro K, Tanaka K, Mikawa M, Uchihara Y, Matsuyama T, Matsuura T, et al. Improved Performance of the Fourth-Generation FloTrac/Vigileo System for Tracking Cardiac Output Changes. Journal of Cardiothoracic & Vascular Anesthesia. 2015;29(3):656–62.	3
228	Suehiro K, Tanaka K, Yamada T, Matsuura T, Mori T, Funao T, et al. The ability of the Vigileo-FloTrac system to measure cardiac output and track cardiac output changes during one-lung ventilation. Journal of Clinical Monitoring & Computing. 2015;29(3):333–9.	3
229	Sujatha P, Mehta Y, Dhar A, Sarkar D, Meharwal ZS, Datt V. Comparison of cardiac output in OPCAB: bolus thermodilution technique versus pulse contour analysis. Annals of Cardiac Anaesthesia. 2006;9(1):44–8.	4
230	Sujatha PP, Nileshwar A, Krishna HM, Prasad SS, Prabhu M, Kamath SU. Goal-Directed vs Traditional Approach to Intraoperative Fluid Therapy during Open Major Bowel Surgery: Is There a Difference? Anesthesiology Research and Practice. 2019;3408940.	3
231	Takeda C, Takeuchi M, Mizota T, Yonekura H, Nahara I, Joo WJ, et al. The association between arterial pulse waveform analysis device and in-hospital mortality in high-risk non-cardiac surgeries. Acta Anaesthesiologica Scandinavica. 2020;64(7):928–35.	3
232	Tang A, Zhou S. Analysis on the application value of goal-directed fluid therapy in patients undergoing laparoscopy-assisted radical gastrectomy with fast-track anesthesia. American Journal of Translational Research. 2021;13(5):5174–82.	3
233	Taniguchi H, Sasaki T, Fujita H, Kobayashi H, Kawasaki R, Ogata T, et al. Effects of goal-directed fluid therapy on enhanced postoperative recovery: An interventional comparative observational study with a historical control group on oesophagectomy combined with ERAS program. Clinical Nutrition ESPEN. 2018;23:184–93.	3
234	Tannenbaum GA, Mathews D, Weissman C. Pulse contour cardiac output in surgical intensive care unit patients. Journal of Clinical Anesthesia. 1993;5(6):471–8.	4
235	Tejedor A, Rivas E, Rios J, Arismendi E, Martinez-Palli G, Delgado S, et al. Accuracy of Vigileo/FloTrac monitoring system in morbidly obese patients. Journal of Critical Care. 2015;30(3):562–6.	3
236	Teng S, Kaufman J, Pan Z, Czaja A, Shockley H, da Cruz E. Continuous arterial pressure waveform monitoring in pediatric cardiac transplant, cardiomyopathy and pulmonary hypertension patients. Intensive Care Medicine. 2011;37(8):1297–301.	3
237	Terada T, Ochiai R. Comparison of the ability of two continuous cardiac output monitors to detect stroke volume index: Estimated continuous cardiac output estimated by modified pulse wave transit time and measured by an arterial pulse contour-based cardiac output device. Technology & Health Care. 2021;29(3):499–504.	3
238	Terada T, Oiwa A, Maemura Y, Robert S, Kessoku S, Ochiai R. Comparison of the ability of two continuous cardiac output monitors to measure trends in cardiac output: estimated continuous cardiac output measured by modified pulse wave transit time and an arterial pulse contour-based cardiac output device. Journal of Clinical Monitoring & Computing. 2016;30(5):621–7.	3
239	Theanpramuk P, Wongbuddha C, Mokarat B. Efficacy of Hemodynamic Monitoring in Cardiac Surgical Patients. Journal of the Medical Association of Thailand. 2022;105(2):139–44.	3
240	Thomas B. Monitoring of cardiac output by pulse contour method. Acta Anaesthesiologica Belgica. 1978;29(3):259–70.	3
241	Tomasi R, Prueckner S, Czerner S, Schramm R, Preissler G, Zwisler B, et al. Comparison of an advanced minimally invasive cardiac output monitoring with a continuous invasive cardiac output monitoring during lung transplantation. Journal of Clinical Monitoring & Computing. 2016;30(4):475–80.	3
242	Torregiani G, Claroni C, Covotta M, Naccarato A, Canfora M, Giannarelli D, et al. Impact of a goal-directed fluid therapy on length of hospital stay and costs of hepatobiliarypancreatic surgery: a prospective observational study. Journal of Comparative Effectiveness	3

연번	서지정보	배제 사유
243	Research. 2018;7(12):1171–9. Tran-Dinh A, Augustin P, Dufour G, Lasocki S, Allou N, Thabut G, et al. Evaluation of Cardiac Index and Extravascular Lung Water After Single-Lung Transplantation Using the Transpulmonary Thermodilution Technique by the PiCCO2 Device. Journal of Cardiothoracic & Vascular Anesthesia. 2018;32(4):1731–5.	4
244	Tribuddharat S, Sathitkarnmanee T, Ngamsaengsirisup K, Sornpirom S. Efficacy of early goal-directed therapy using FloTrac/EV1000 to improve postoperative outcomes in patients undergoing off-pump coronary artery bypass surgery: a randomized controlled trial. Journal Of Cardiothoracic Surgery. 2022;17(1):196.	9
245	Tribuddharat S, Sathitkarnmanee T, Ngamsangsisup K, Nongnuang K. Efficacy of Intraoperative Hemodynamic Optimization Using FloTrac/EV1000 Platform for Early Goal-Directed Therapy to Improve Postoperative Outcomes in Patients Undergoing Coronary Artery Bypass Graft with Cardiopulmonary Bypass: A Randomized Controlled Trial. Medical Devices Evidence and Research. 2021;14:201–9.	3
246	Tsai YF, Su BC, Lin CC, Liu FC, Lee WC, Yu HP. Cardiac output derived from arterial pressure waveform analysis: validation of the third-generation software in patients undergoing orthotopic liver transplantation. Transplantation Proceedings. 2012;44(2):433–7.	3
247	Tsutsui M, Araki Y, Masui K, Kazama T, Sugo Y, Archer TL, et al. Pulse wave transit time measurements of cardiac output in patients undergoing partial hepatectomy: a comparison of the esCCO system with thermodilution. Anesthesia & Analgesia. 2013;117(6):1307–12.	3
248	Turkut N, Altun D, Canbolat N, Uzunturk C, Sen C, Camci AE. Comparison of Stroke Volume Variation-based goal-directed Therapy Versus Standard Fluid Therapy in Patients Undergoing Head and Neck Surgery: A Randomized Controlled Study. Balkan Medical Journal. 2022;39(5):351–7.	3
249	Tusman G, Acosta CM, Wallin M, Hallbeck M, Esperati M, Peralta G, et al. Perioperative Continuous Noninvasive Cardiac Output Monitoring in Cardiac Surgery Patients by a Novel Capnodynamic Method. Journal of Cardiothoracic & Vascular Anesthesia. 2022;36(8 Pt B):2900–7.	4
250	Uchino S, Bellomo R, Morimatsu H, Sugihara M, French C, Stephens D, et al. Pulmonary artery catheter versus pulse contour analysis: a prospective epidemiological study. Critical Care (London, England). 2006;10(6):R174.	4
251	Van der Linden PJ, Dierckx A, Wilmin S, Bellens B, De Hert SG. A randomized controlled trial comparing an intraoperative goal-directed strategy with routine clinical practice in patients undergoing peripheral arterial surgery. European journal of anaesthesiology. 2010;27(9):788–93.	3
252	Vannucci A, Krejci V, Kangrga I. Performance of Vigileo and LiDCOplus cardiac output monitors during a prolonged cardiac arrest and resuscitation. European Journal of Anaesthesiology. 2009;26(10):885–7.	2
253	Vasdev S, Chauhan S, Choudhury M, Hote MP, Malik M, Kiran U. Arterial pressure waveform derived cardiac output FloTrac/Vigileo system (third generation software): comparison of two monitoring sites with the thermodilution cardiac output. Journal of Clinical Monitoring & Computing. 2012;26(2):115–20.	3
254	Velmahos GC, Wo CC, Demetriades D, Murray JA, Cornwell EE, 3rd, Asensio JA, et al. Invasive and non-invasive physiological monitoring of blunt trauma patients in the early period after emergency admission. International Surgery. 1999;84(4):354–60.	3
255	Vetrugno L, Bignami E, Barbariol F, Langiano N, De Lorenzo F, Matellon C, et al. Cardiac output measurement in liver transplantation patients using pulmonary and transpulmonary thermodilution: a comparative study. Journal of Clinical Monitoring & Computing. 2019;33(2):223–31.	4
256	Vetrugno L, Costa MG, Spagnesi L, Pompei L, Chiarandini P, Gimigliano I, et al. Uncalibrated arterial pulse cardiac output measurements in patients with moderately abnormal left ventricular function. Journal of Cardiothoracic & Vascular Anesthesia. 2011;25(1):53–8.	3
257	Vilchez Monge AL, Alvarez-Cagigas IT, Perez-Pena J, Olmedilla L, Jimeno C, Sanz J, et al. Cardiac output monitoring with pulmonary versus transpulmonary thermodilution during	4

연번	서지정보	배제 사유
	liver transplantation: Interchangeable methods? Minerva Anestesiologica. 2014;80(11):1178–87.	
258	Voet M, Overduin CG, Stille EL, Futterer JJ, Lemson J. Safety aspects of the PiCCO thermodilution–cardiac output catheter during magnetic resonance imaging at 3 Tesla. Journal of Clinical Monitoring & Computing. 2022;36(1):141–5.	1
259	Wacharasint P, Kunakorn P, Pankongsap P, Preechanukul R. Clinical validation of pulse contour and pulse wave transit time-based continuous cardiac output analyses in Thai patients undergoing cardiac surgery. Journal of the Medical Association of Thailand. 2014;97 Suppl 1:S55–60.	3
260	Wang SC, Teng WN, Chang KY, Susan Mandell M, Ting CK, Chu YC, et al. Fluid management guided by stroke volume variation failed to decrease the incidence of acute kidney injury, 30-day mortality, and 1-year survival in living donor liver transplant recipients. Journal of the Chinese Medical Association: JCMA. 2012;75(12):654–9.	3
261	Weinberg L, Banting J, Churilov L, McLeod RL, Fernandes K, Chao I, et al. The Effect of a Surgery-Specific Cardiac Output-Guided Haemodynamic Algorithm on Outcomes in Patients Undergoing Pancreaticoduodenectomy in a High-Volume Centre: A Retrospective Comparative Study. Anaesthesia and Intensive Care. 2017;45(5):569–80.	3
262	Weinberg L, Ianno D, Churilov L, McGuigan S, Mackley L, Banting J, et al. Goal directed fluid therapy for major liver resection: A multicentre randomized controlled trial. Annals of Medicine and Surgery. 2019;45:45–53.	3
263	Weinberg L, MacKley L, Ho A, McGuigan S, Ianno D, Yii M, et al. Impact of a goal directed fluid therapy algorithm on postoperative morbidity in patients undergoing open right hepatectomy: A single centre retrospective observational study. BMC Anesthesiology. 2019;19(1) (no pagination)(135).	3
264	Weissman C, Ornstein EJ, Young WL. Arterial pulse contour analysis trending of cardiac output: hemodynamic manipulations during cerebral arteriovenous malformation resection. Journal of Clinical Monitoring. 1993;9(5):347–53.	8
265	Werawatganon T, Punyatavorn S, Chatkaew P, Bunburaphong P. Validity and reliability of cardiac output by arterial thermodilution and arterial pulse contour analysis compared with pulmonary artery thermodilution in intensive care unit. Journal of the Medical Association of Thailand. 2003;86 Suppl 2:S323–30.	3
266	Wiesenack C, Prasser C, Keyl C, Rodig G. Assessment of intrathoracic blood volume as an indicator of cardiac preload: single transpulmonary thermodilution technique versus assessment of pressure preload parameters derived from a pulmonary artery catheter. Journal of Cardiothoracic & Vascular Anesthesia. 2001;15(5):584–8.	4
267	Wouters PF, Quaghebeur B, Sergeant P, Van Hemelrijck J, Vandermeersch E. Cardiac output monitoring using a brachial arterial catheter during off-pump coronary artery bypass grafting. Journal of Cardiothoracic & Vascular Anesthesia. 2005;19(2):160–4.	3
268	Wu NH, Hsieh TH, Chang CY, Shih PC, Kao MC, Lin HY. Validation of cardiac output estimation using the fourth-generation FloTrac/EV1000 TM system in patients undergoing robotic-assisted off-pump coronary artery bypass surgery. Heart & Vessels. 2023;38(3):341–7.	3
269	Yamada T, Tsutsui M, Sugo Y, Sato T, Akazawa T, Sato N, et al. Multicenter study verifying a method of noninvasive continuous cardiac output measurement using pulse wave transit time: a comparison with intermittent bolus thermodilution cardiac output. Anesthesia & Analgesia. 2012;115(1):82–7.	3
270	Yamashita K, Nishiyama T, Yokoyama T, Abe H, Manabe M. Effects of vasodilation on cardiac output measured by PulseCOTM. Journal of Clinical Monitoring and Computing. 2007;21(6):335–9.	3
271	Yamashita K, Nishiyama T, Yokoyama T, Abe H, Manabe M. The effects of vasodilation on cardiac output measured by PiCCO. Journal of Cardiothoracic & Vascular Anesthesia. 2008;22(5):688–92.	4
272	Yao Y, Guan Y, Zhuang Y, Liu W, Cui J, Sun Y. Effects of fluid resuscitation under the guidance of PICCO on the immune function and inflammatory mediator in patients with septic shock. Biomedical Research (India). 2017;28(22):9722–5.	3
273	Yao Y, Su M, Guan Y, Gao X, Liu W, Sun Y. Clinical Application of Transabdominal	4

연번	서지정보	배제 사유
	Ultrasound Combined with PICCO in Septic Shock Fluid Resuscitation and Its Predictive Value for Survival Outcome. <i>Ultrasound in Medicine & Biology</i> . 2021;47(11):3196–201.	
274	Yeo LL, Seow SC, Loh JP, Phua J. Comparison of cardiac output measurement by arterial waveform analysis and pulmonary artery catheter in mitral stenosis. <i>Annals of the Academy of Medicine, Singapore</i> . 2010;39(8):655–7.	6
275	Ylikaruma LA, Ohtonen PP, Erkinaro TM, Vakkala MA, Liisanantti JH, Satta JU, et al. Bioreactance and fourth-generation pulse contour methods in monitoring cardiac index during off-pump coronary artery bypass surgery. <i>Journal of Clinical Monitoring & Computing</i> . 2022;36(3):879–88.	3
276	Yu J, Che L, Zhu A, Xu L, Huang Y. Goal-Directed Intraoperative Fluid Therapy Benefits Patients Undergoing Major Gynecologic Oncology Surgery: A Controlled Before-and-After Study. <i>Frontiers in Oncology</i> . 2022;12:833273.	3
277	Zangrillo A, Maj G, Monaco F, Scandroglio AM, Nuzzi M, Plumari V, et al. Cardiac Index Validation Using the Pressure Recording Analytic Method in Unstable Patients. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> . 2010;24(2):265–9.	3
278	Zhang G, Mukkamala R. Continuous and minimally invasive cardiac output monitoring by long time interval analysis of a radial arterial pressure waveform: assessment using a large, public intensive care unit patient database. <i>British Journal of Anaesthesia</i> . 2012;109(3):339–44.	3
279	Zhang G, Mukkamala R. Evaluation of monitoring cardiac output by long time interval analysis of a radial arterial blood pressure waveform using the MIMIC II database. Annual International Conference Of The IEEE Engineering In Medicine And Biology Society. 2010;2010:5217.	3
280	Zhang J, Chen CQ, Lei XZ, Feng ZY, Zhu SM. Goal-directed fluid optimization based on stroke volume variation and cardiac index during one-lung ventilation in patients undergoing thoracoscopy lobectomy operations: a pilot study. <i>Clinics (Sao Paulo, Brazil)</i> . 2013;68(7):1065–70.	3
281	Zhu Y, Yang M, Ding L, Chu G, Cheng J, Lv G. Fluid resuscitation based on pulse contour cardiac output monitoring is associated with improved prognosis in adult severe burn patients: a retrospective cohort study. <i>Annals of Palliative Medicine</i> . 2021;10(10):10904–12.	3
282	Zimmermann A, Kufner C, Hofbauer S, Steinwendner J, Hitzl W, Fritsch G, et al. The accuracy of the Vigileo/FloTrac continuous cardiac output monitor. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2008;22(3):388–93.	3
283	Zollner C, Haller M, Weis M, Morstedt K, Lamm P, Kilger E, et al. Beat-to-beat measurement of cardiac output by intravascular pulse contour analysis: a prospective criterion standard study in patients after cardiac surgery. <i>Journal of Cardiothoracic & Vascular Anesthesia</i> . 2000;14(2):125–9.	3
284	Zoremba N, Bickenbach J, Krauss B, Rossaint R, Kuhlen R, Schalte G. Comparison of electrical velocimetry and thermodilution techniques for the measurement of cardiac output. <i>Acta Anaesthesiologica Scandinavica</i> . 2007;51(10):1314–9.	4
285	Zorrilla-Vaca A, Cata JP, Brown JK, Mehran RJ, Rice D, Mena GE. Goal-Directed Fluid Therapy Does Not Have an Impact on Renal Outcomes in an Enhanced Recovery Program. <i>Annals of Thoracic Surgery</i> . 2022;114(6):2059–65.	4