

# Non invasive endothelial function testing and risk of adverse outcomes: systematic review literature search strategy

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## Search Terms

### EFT SR Terms List

Endothelial Function Tests	Outcomes	Prediction
brachial artery[mh] AND endothelium, vascular[mh] endothelium, vascular[mh] brachial artery[mh] AND blood flow velocity[mh] vascular endothelium ultrasonography, doppler, pulsed[mh] ultrasound[tw] ultrasonography[tw,sh] coronary, circulation peripheral artery disease[mh] brachial artery reactivity test (BART) brachial artery reactivity (BAR) brachial artery dilation brachial artery dilatation endothelial function endothelial dysfunction peripheral arterial tonometry (PAT) reactive hyperemia peripheral arterial tonometry (RH-PAT) reactive hyperemia n/1 brachial artery flow-mediated dilation AND ultrasound coronary vascular function testing coronary endothelial function reactive hyperemia AND brachial artery brachial artery n/2 flow-mediated dilation flow-mediated vasodilation n/2 brachial artery flow-mediated dilatation n/2 brachial artery flow-mediated dilation n/2 brachial artery brachial artery n/2 vascular function	stroke cardiovascular events cardiovascular outcome* cardiovascular disease myocardial infarction coronary artery disease (CAD) angina, unstable unstable angina revascularization aortic syndromes mortality all-cause mortality death morbidity disease free survival heart diseases arteriosclerosis coronary disease hypertension peripheral artery disease hyperemia[mh] cardiac death coronary restenosis[mh]	predict* prognos* risk risk factors proportional hazards model[mh] sensitivity and specificity[mh] risk assessment[mh] predictive value of tests[mh] correlation[tiab] prognosis[mh]

## Database Documentation

- CENTRAL Cochrane Library Database (limits 2012-2013 added); Result count: **5**; Date: **February 27, 2013**
- HTA Cochrane Library Database (enter characteristics here); Result count: **0**; Date: **February 27, 2013**
- PUBMED (ran "What's New" from savd strategy: July 24, 2012 - present); Result count: **154**; Date: **February 27, 2013**
- EMBASE (1996-2013 Week 08; limited to 2013 - current); Result count: **198 (196 w/o dups)**; Date: **February 27, 2013**
- Science Citation Index - ISI (1900-present; limited to 2012-08-01 to present); Result count: **139**; Date: **February 27, 2013**
- Clinical Trials.gov (enter characteristics here); Result count: **34**; Date: **July 27, 2012**
- SCOPUS - (ran "New Results" from savd strategy: August 2, 2012 - present); Result count: **171**; Date: **February 27, 2013**

**Literature Search (PubMed MEDLINE)**

- #1 brachial artery[mh]
- #2 endothetium, vascular[mh]
- #3 #1 AND #2
- #4 ultrasonography[sb]
- #5 doppler pulsed ultrasonography[mh]
- #6 #1 AND (#4 OR #5)
- #7 vasodilation[mh]
- #8 #1 AND #7
- #9 #2 AND #7
- #10 #3 OR #6 OR #8 OR #9
- #11 "brachial artery reactivity"[tiab]
- #12 BAR[tiab]
- #13 BART[tiab]
- #14 #11 OR #12 OR #13
- #15 "peripheral arterial tonometry"[tiab]
- #16 PAT[tiab]
- #17 "reactive hyperemia peripheral arterial tonometry"[tiab]
- #18 RH-PAT[tiab]
- #19 #15 OR #16 OR #17 OR 18
- #20 Endothelial function[tiab]
- #21 Endothelial dysfunction[tiab]
- #22 Brachial arter\*[tiab]
- #23 #19 OR #20
- #24 #21 AND #22
- #25 ultrasound[tiab]
- #26 ultrasonography[tiab]
- #27 #24 OR #25
- #28 #21 AND #26
- #29 "flow-mediated dilation"[tiab]
- #30 FMD[tiab]
- #31 "flow-mediated dilatation"[tiab]
- #32 "flow-mediated vasodilation"[tiab]
- #33 #28 OR #29 OR #30 OR #31
- #34 #22 AND #32
- #35 #21 AND #31
- #36 #10 OR #14 OR #19 OR #24 OR #28 OR #34 OR #35
- #37 stroke[mh]
- #38 myocardial infarction[mh]
- #39 coronary disease[mh:noexp]
- #40 angina, unstable[mh:noexp]
- #41 mortality[mh:noexp]
- #42 morbidity[mh:noexp]
- #43 coronary artery disease[mh]
- #44 coronary restenosis[mh]
- #45 cardiovascular diseases[mh:noexp]
- #46 heart diseases[mh:noexp]
- #47 vascular diseases[mh]
- #48 OR/#37-#47

- #49 Stroke[tiab]
- #50 Cardiovascular events[tiab]
- #51 Cardiovascular outcome[tiab] OR cardiovascular outcomes[tiab]
- #52 Myocardia infarction[tiab]
- #53 Coronary artery disease[tiab] OR CAD[tiab]
- #54 Unstable angina[tiab]
- #55 Revascularization[tiab] OR revascularization[tiab]
- #56 Aortic syndromes[tiab]
- #57 Mortality[tiab] OR death[tiab]
- #58 Morbidity[tiab]
- #59 Heart disease[tiab] OR heart diseases[tiab]
- #60 Arteriosclerosis[tiab]
- #61 Coronary disease[tiab]
- #62 Hypertension[tiab]
- #63 Peripheral artery disease[tiab]
- #64 Hyperemia[tiab]
- #65 Coronary restenosis[tiab]
- #66 OR/#49 - #65
- #67 #48 OR #66
- #68 prognosis[mh]
- #69 predictive value of tests[mh]
- #70 sensitivity and specificity[mh:noexp]
- #71 risk[mh:noexp]
- #72 risk assessment[mh:noexp]
- #73 risk factors[mh]
- #74 proportional hazards models[mh]
- #75 risk[tiab] OR risk factors[tiab]
- #76 predict\*[tiab]
- #77 prognos\*[tiab]
- #78 correlation[tiab]
- #79 OR/ #68 - #78
- #80 #36 AND #67 AND #79 Filters: Humans, English

**Results: 2841 July 24, 2012**

### **Papers Used to Benchmark Strategy (by PMID)**

16950178[uid] OR 15582310[uid] OR 14975472[uid] OR 11927524[uid] OR 19204308[uid] OR 21263120[uid] OR 17717291[uid] OR 17126643[uid] OR 16098430[uid] OR 11738283[uid] OR 18622240[uid] OR 9069525[uid] OR 18325438[uid] OR 20181680[uid] OR 22172589[uid] OR 16762358[uid]