

Supplementary Table 1.

Database: Ovid MEDLINE

Search Strategy:

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- 1 exp Atrial Fibrillation/ (46578)
  - 2 atrial fibrillation.tw. (48670)
  - 3 AF.tw. (26772)
  - 4 Mass Screening/ (94291)
  - 5 1 or 2 or 3 (69465)
  - 6 screening.tw. (382365)
  - 7 Monitoring, Ambulatory/ (7308)
  - 8 Electrocardiography/ (185379)
  - 9 Electrocardiography, Ambulatory/ or Arrhythmias, Cardiac/ or Electrocardiography/ (232205)
  - 10 monitoring.tw. (353950)
  - 11 Diagnosis/ (17394)
  - 12 electrocardiography.tw. (11752)
  - 13 ECG.tw. (52917)
  - 14 7 or 8 or 9 or 12 or 13 (258115)
  - 15 4 or 6 or 10 or 11 (769528)
  - 16 5 and 14 and 15 (1684)
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Supplementary Table 2.

<b>Author</b>	<b>Year</b>	<b>Reason for exclusion</b>
Barrett et. al.	2014	Primary outcome not AF detection
Bhatt et. al.	2011	28 day event recorder used for AF detection
Kamel et. al.	2013	21 day mobile cardiac outpatient telemetry unit used for AF detection
Miller et. al.	2013	30 day mobile cardiac outpatient telemetry unit used for AF detection
Rabenstein et. al.	2013	21 day mobile cardiac outpatient telemetry unit used for AF detection
Tayal et. al.	2008	21 day mobile cardiac outpatient telemetry unit used for AF detection
Flint et. al.	2012	30 day event recorder used for AF detection
Christensen et. al.	2014	Implantable loop recorder used for AF detection
Cotter et. al.	2013	Implantable loop recorder used for AF detection
Dion et. al.	2010	Implantable loop recorder used for AF detection
Sanna et. al.	2014	Implantable cardiac monitor used for AF detection
Merce et. al.	2013	Implantable loop recorder used for AF detection
Elijovich et. al.	2009	30 day event recorder used for AF detection
Wallmann et. al.	2007	Serial 7 day event recorders used for AF detection
Kral et. al.	2015	Substudy (poster) only investigating patients <40 yrs
Lip et. al.	2016	AF detection not primary objective
Anczykowski et. al.	2016	Trans-telephonic event recorder used for arrhythmia detection
Baturova et. al.	2016	AF detection not primary objective
Yu et. al.	2009	Retrospective review with missing demographic data and AF detection not primary objective
Destaghe et. al.	2016	Primary purpose was assessing test performance of 2 different ECG devices
Lowres et. al.	2016	Post cardiothoracic surgery patients with known episode of AF post-op
Benito et. al.	2015	12 lead ECG used for screening
Bury et. al.	2012	3 lead ECG used for screening
Turakhia et. al.	2015	Wearable patch used for ambulatory monitoring
Tieleman et. al.	2014	AF screening not primary objective
Rabenstein et. al.	2015	Review article
Sposato et. al.	2015	Review article
Schnabel et. al.	2009	Main aim was to develop an AF risk score
Chamberlain et. al.	2011	Main aim was to develop an AF risk score
Lowres et. al.	2013	Review article
de Vito et. al.	2014	AF in post orthopaedic surgery patients with inpatient monitoring
Magee et. al.	2007	Post cardiothoracic surgery patients with inpatient monitoring
Her et. al.	2013	Post cardiothoracic surgery patients with inpatient monitoring
Freedman et. al.	2016	Editorial article
Turakhia et. al.	2016	Review article
Levin et. al.	2015	Cost analysis primary objective
Fitzmaurice et. al.	2007	Pulse palpation used for AF detection
Rhys et. al.	2013	Pulse palpation used for AF detection
Ziegler et. al.	2010	Used implantable devices for AF detection
Akiyama et. al.	2017	Wearable patch used for AF detection
Thom et. al.	2016	Review article
Engdahl et. al.	2017	Trial design paper
Rojo-Martinez et. al.	2013	Implantable cardiac monitor used for AF detection

Poisson et. al.	2011	Review article
Etgen et. al.	2013	Implantable cardiac monitor used for AF detection
Marazzi et. al.	2012	Blood Pressure monitor used for AF detection
Wiesel et. al.	2014	Blood Pressure monitor used for AF detection
Lewis et. al.	2011	Finger probe plethysmography used for AF detection
McManus et. al.	2016	Iphone based plethysmography used for AF detection
Shanmugam et. al.	2012	Heart failure patients with cardiac resynchronization therapy
Keach et. al.	2015	Review article
Borian et, al.	2014	Implantable devices used for AF detection
Alonso et. al.	2013	Primary aim was to determine clinical score to assess AF risk
Steven et. al.	2016	Trial design paper - wearable sensors for AF detection
Lau et. al.	2013	Primary aim was to determine accuracy of AF algorithm
Gaillard et al.	2010	Transtelephonic monitoring used for AF detection
Orlov et. al.	2007	AF detection based on patients with permanent pacemakers
Martinez et. al.	2014	Primary aim was to determine prognosis of patients with subclinical AF
Wang et al.	2017	Trial design paper

Supplementary Table 3.

<b>Study</b>	<b>Objective and outcome described</b>	<b>Appropriate reporting of comorbidities</b>	<b>Inclusion criteria specified</b>	<b>Incomplete Outcome Data</b>	<b>Efforts to reduce bias</b>	<b>Limitations discussed</b>	<b>External validity of study discussed</b>
Lowres et. al. (2014)	Yes	Yes	Yes	No	No	No	Yes
Svennberg et. al. (2015)	Yes	Yes	Yes	No	No	Yes	Yes
Proietti et. al. (2016)	Yes	Yes	Yes	No	No	Yes	Yes
Kaasenbrood et. al. (2016)	Yes	No	Yes	Yes	No	Yes	No
Engdahl et. al. (2013)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hendrikkx et. al. (2013)	Yes	Yes	Yes	No	No	Yes	Yes
Hendrikkx et. al. (2014)	Yes	Yes	Yes	No	No	Yes	Yes
Chan et. al. (2016)	Yes	Yes	Yes	Yes	No	No	Yes
Sobocinski et. al. (2012)	Yes	Yes	Yes	No	No	Yes	Yes
Doliwa et. al. (2009)	Yes	No	Yes	No	No	Yes	Yes
Ramkumar et. al. (2017)	Yes	Yes	Yes	No	No	Yes	Yes
Hendrikkx et. al. (2017)	Yes	Yes	Yes	No	No	Yes	Yes
Claes et. al. (2011)	Yes	Yes	Yes	Yes	No	Yes	Yes
Samol et. al. (2012)	Yes	Yes	Yes	No	No	Yes	Yes
Battipaglia et. al. (2016)	Yes	No	No	No	Yes	Yes	Yes
Chan et. al. (2016)	Yes	Yes	Yes	No	Yes	Yes	Yes
Chan et. al. (2017)	Yes	No	Yes	No	No	Yes	Yes
Halcox et. al. (2017)	Yes	Yes	Yes	No	No	Yes	Yes
Gladstone et. al. (2014)	Yes	Yes	Yes	No	Yes	Yes	Yes
Barthelemy et. al. (2003)	Yes	Yes	Yes	No	Yes	No	No
Jabaudon et. al. (2004)	Yes	Yes	Yes	No	No	No	Yes
Koudstaal et. al. (1986)	Yes	No	Yes	No	No	No	No
Hornig et. al. (1996)	Yes	No	Yes	No	Yes	No	Yes
Rizos et. al. (2012)	Yes	Yes	Yes	No	Yes	Yes	Yes
Schuchert et. al. (1999)	Yes	No	Yes	No	No	No	No
Schaer et. al. (2009)	Yes	Yes	Yes	No	No	Yes	Yes
Schaer et. al. (2004)	Yes	No	Yes	No	No	Yes	Yes
Shafqat et. al. (2004)	Yes	No	Yes	No	No	No	Yes
Lazzaro et. al. (2012)	Yes	Yes	Yes	No	No	Yes	Yes
Grond et. al. (2013)	Yes	Yes	Yes	Yes	Yes	No	Yes
Stahrenberg et. al. (2010)	Yes	Yes	Yes	Yes	Yes	No	Yes
Ritter et. al. (2013)	Yes	Yes	Yes	No	No	No	Yes
Higgins et. al. (2013)	Yes	No	Yes	No	Yes	Yes	Yes

Thakkar et. al. (2014)	Yes	Yes	Yes	No	Yes	Yes	Yes
Wachter et. al. (2017)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gumbinger et. al. (2012)	Yes	No	Yes	No	Yes	No	Yes
Alhadramy et. al. (2010)	Yes	Yes	Yes	No	Yes	Yes	Yes
Dangayach et. al. (2011)	Yes	Yes	Yes	No	Yes	No	Yes
Gunalp et. al. (2006)	Yes	No	Yes	No	Yes	No	No
Fonseca et. al. (2013)	Yes	Yes	Yes	No	Yes	Yes	Yes
Manina et. al. (2014)	Yes	No	Yes	No	Yes	No	Yes
Tagawa et. al. (2007)	Yes	No	Yes	No	Yes	Yes	Yes
Shibazaki et. al. (2012)	Yes	Yes	Yes	No	Yes	Yes	Yes
Vandebroucke et. al. (2004)	Yes	No	Yes	No	No	Yes	Yes
Yodogawa et. al. (2013)	Yes	No	Yes	No	Yes	Yes	Yes
Atmuri et. al. (2012)	Yes	No	Yes	No	No	Yes	Yes
Salvatori et. al. (2015)	Yes	Yes	Yes	No	Yes	No	Yes
Beaulieu-Boire et. al. (2013)	Yes	Yes	Yes	No	Yes	Yes	Yes
Dogan et. al. (2011)	Yes	No	Yes	No	No	Yes	No
Douen et. al. (2008)	Yes	No	Yes	No	Yes	No	No
Suissa et. al. (2012)	Yes	No	Yes	No	Yes	Yes	Yes
Wohlhahrt et. al. (2013)	Yes	Yes	Yes	No	Yes	Yes	Yes



Supplementary Figure 1.

