

Preoperative tests

Routine preoperative tests for elective surgery

Clinical guideline <...>

Appendix K: Excluded clinical studies

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Disclaimer

Healthcare professionals are expected to take NICE clinical guidelines fully into account when exercising their clinical judgement. However, the guidance does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of each patient, in consultation with the patient and, where appropriate, their guardian or carer.

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Appendix K: Excluded clinical studies

K.1 Resting electrocardiogram

Table 1: Studies excluded from the clinical review

Study	Exclusion reason
Bae 2014 ³⁵	Non-comparative study
Bohmer 2014 ⁵²	Inappropriate comparison
Bottiger 2004 ⁵⁶	Inappropriate comparison
Boyle 2003 ⁵⁷	Inappropriate comparison
Cavallini 2004 ⁷⁵	Battery of tests with composite outcomes
Chong 2013 ⁸¹	Inappropriate comparison
Chung 2009 ⁸⁷	Battery of tests with composite outcomes
Elwood 2005 ¹¹⁵	Inappropriate comparison
Ganapathi 2014 ¹³⁴	High proportion with non-elective surgery
Gonzalez 2003 ¹⁴²	Inappropriate comparison
Gupta 2009 ¹⁴⁷	Systematic review: study designs inappropriate
Hanss 2008 ¹⁵⁵	Inappropriate comparison
Ho 2007 ¹⁶⁴	Inappropriate comparison
Hobbs 2005 ¹⁶⁵	Inappropriate comparison
Hux 2003 ¹⁷⁰	Retrospective study, inappropriate comparison
Ivanovic 2014 ¹⁷⁴	Inappropriate comparison
Kertai 2003 ¹⁸⁹	Inappropriate comparison
Lee 2009 ²⁰⁷	Observational study
Lim 2003 ²¹⁴	Inappropriate comparison
Lira 2001 ²¹⁶	Battery of tests with composite outcomes
Manninen 1990 ²²³	Inappropriate comparison
Marx 1965 ²²⁸	Case report
Mazel 1964 ²³¹	Narrative paper
McMartin 2014 ²³⁶	Incorrect interventions
Nagele 2013 ²⁵¹	Inappropriate comparison
Nakano 1957 ²⁵²	Inappropriate comparison
Nascimento 2004 ²⁵³	Incorrect interventions
Nikolic 2008 ²⁵⁶	Inappropriate comparison
Nze 2008 ²⁵⁷	Inappropriate comparison
Ohrlander 2012 ²⁶²	Battery of tests with composite outcomes
Pastore 2003 ²⁶⁹	Inappropriate comparison
Persson 2005 ²⁷¹	Inappropriate comparison
Radovanovic 2008 ²⁷⁶	Inappropriate comparison
Ramaswamy 2004 ²⁷⁸	Inappropriate comparison
Sabate 2011 ²⁸⁴	Inappropriate comparison
Shalwala 2015 ²⁹⁶	Non-comparative study
Sharma 2014 ²⁹⁷	Narrative review

Smith 2014 ³⁰²	Inappropriate comparison
Troisi 2008 ³²¹	Inappropriate comparison
Wijesundera 2010 ³³⁷	Inappropriate comparison
Yuan 2005 ³⁴⁷	No extractable data

K.2 Resting echocardiogram

Table 2: Studies excluded from the clinical review

Study	Exclusion reason
Afilalo 2011 ¹¹	Cardiac surgery
Afilalo 2013 ¹²	Non-comparative
Alibhai 2013 ²³	Outcomes not relevant
Botker 2013 ⁵⁵	Inappropriate comparison, non-comparative.
Canty 2009 ⁶⁶	Non-comparative, descriptive
Canty 2012 ⁶⁷	Non-comparative
Cavallari 2015 ⁷⁴	Outcomes not relevant
Chan 2011 ⁷⁶	Irrelevant outcomes
Cheitlin 2003 ⁷⁸	Not a study
Chilkoti 2015 ⁷⁹	Univariate analysis
Cho ⁸⁰	Prognostic study, superseded by interventional evidence
Cowie 2009 ⁹⁷	Inappropriate comparison, incorrect interventions, non-comparative
Cowie 2011 ⁹⁶	Non-comparative
Deshpande 2014 ¹⁰¹	Unable to obtain paper
Fleisher 2007 ¹²⁹	Not a study
Guarracino 2014 ¹⁴⁶	No extractable data
Hartley 2011 ¹⁵⁶	Non-comparative
Kalogeropoulos 2014 ¹⁸⁷	Cardiac surgery
Krahn 2008 ²⁰⁰	Non-comparative
Larsen 2009 ²⁰⁶	Non-comparative
Loxdale 2010 ²¹⁷	Non-comparative
Loxdale 2012 ²¹⁸	Outcomes not relevant
Manoharan 2013 ²²⁴	Non-comparative
Markin 2015 ²²⁷	Outcomes not relevant
Mcbrien 2009 ²³³	Non-comparative
Mcmartin 2014 ²³⁷	Rapid review (non-UK: Canada)
Negoi 2013 ²⁵⁴	Irrelevant outcomes/focus of systematic review
O'heireamhoin 2011 ²⁵⁸	Not elective surgery
O'sullivan 2010 ²⁶⁰	Non-comparative
Placanica 2011 ²⁷²	Not echocardiography
Rando 2009 ²⁷⁹	Transplant surgery
Rando 2011 ²⁸⁰	Transplant surgery
Robinson 2013 ²⁸¹	Incorrect interventions

Study	Exclusion reason
Rohde 2001 ²⁸²	Non-comparative
Roshanali 2012 ²⁸³	Inappropriate outcomes
Selvakumar 2011 ²⁹²	Inappropriate comparison
Selvaratnam 2013 ²⁹³	Non-comparative
Smith 2014 ³⁰³	Emergency surgery
Snaith 2010 ³⁰⁵	Non-comparative
Snaith 2010 ³⁰⁴	Non-comparative
Tan 2014 ³¹⁶	Transplant surgery
Tan 2015 ³¹⁷	No extractable data
Tsialtas 2014 ³²²	Outcomes not relevant
Vijayan 2012 ³²⁸	Inappropriate comparison
Visnjevac 2014 ³²⁹	Univariate analysis
Vizza 2001 ³³⁰	Non-comparative

K.3 Cardiopulmonary exercise testing

K.3.1 Intervention review

Table 3: Studies excluded from the clinical review

Reference	Reason for exclusion
Aalten 2011 ²	Renal transplantation not included as a surgical type
Aftab 2014 ¹³	No multivariable analysis for our prognostic factor
Agnew 2010 ¹⁵	Narrative review. Listed as a study design exclusion in protocol.
Akhras 1984 ¹⁹	Diagnostic accuracy of exercise testing
Albouaini 2007 ²¹	Narrative review
Babu-Narayan 2014 ³²	Valve replacement not included as a surgical type
Balady 2010 ³⁶	Scientific statement
Beccaria 2001 ⁴¹	Only a subgroup (7 patients) were referred for CPET
Bernal 2014 ⁴³	Transplantation surgery
Bernstein 2012 ⁴⁴	Narrative review. Listed as a study design exclusion in the protocol
Bill-Brahe 1980 ⁴⁶	Diagnostic accuracy
Brunelli 2014 ⁵⁸	Narrative summary
Brutsche 2000 ⁵⁹	No extractable data
Burnside 2014 ⁶⁴	Narrative summary. Listed as a study design exclusion in the protocol
Campione 2010 ⁶⁵	Non-comparative
Carliner 1985 ⁶⁸	No relevant preoperative test
Colson 2012 ⁹⁵	Outcomes measured at long-term (5 years follow-up). Protocol defines outcomes to be measured 30-day post-surgery
Dales 1993 ¹⁰⁰	Study does not specify if CPET

Reference	Reason for exclusion
Dunne 2014 ¹⁰⁶	No multivariable analysis for prognostic factors of interest
Epstein 2004 ¹¹⁷	Transplantation surgery
Farid 2002 ¹²²	Not matching the protocol
Forshaw 2008 ¹³¹	Non-comparative
Goodyear 2013 ¹⁴³	Non-comparative
Hennis 2011 ¹⁵⁹	Systematic review with a different review protocol
Hennis 2012 ¹⁵⁸	Diagnostic study
Hightower 2010 ¹⁶⁰	Diagnostic study
Horwich 2009 ¹⁶⁷	Patients not undergoing surgery
Hoyland 2014 ¹⁶⁸	Narrative review
Iorio 2013 ¹⁷²	Narrative review. Listed as a study design exclusion in protocol
Jack 2014 ¹⁷⁶	Outcome not directly linked to prognostic factor
James 2014 ¹⁷⁷	Non-comparative
Jones 2007 ¹⁸³	No multivariable analysis and no surgery
Jones 2010 ¹⁸⁴	Median length of follow-up 30.8 months. Protocol defines outcomes to be measured 30-days post-surgery
Kaibori 2013 ¹⁸⁶	Conference abstract only
Larsen 1997 ²⁰⁵	Study does not specify CPET
Levett 2015a ²¹⁰	Narrative review
Metra 1999 ²⁴¹	Patients not undergoing surgery
Milani 2004 ²⁴²	Narrative review
Nagamatsu 2001 ²⁴⁹	Incorrect analysis/Data narrative prognostic review
Nagamatsu 2004 ²⁵⁰	No extractable data
Okumura 2013 ²⁶³	CPET not related to post-surgical outcomes
Older 1999 ²⁶⁴	CPET values not related to post-surgical outcomes. Allocated to different post-operative location based on CPET score
Older 2000 ²⁶⁵	Narrative review. Listed as a study design exclusion in protocol.
Ong 2000 ²⁶⁶	Heart transplantation not included as a surgical type
Otto 2012 ²⁶⁷	CPET was tested for different disease sufferers
Park 2005 ²⁶⁸	Case series. Listed as a study design exclusion in protocol
Poldermans 2006 ²⁷³	Stress testing rather than CPET
Singh 2013 ²⁹⁹	Systematic review: surgery type not reported
Smith 2009 ³⁰¹	Systematic review with a different review protocol
Snowden 2013 ³⁰⁶	Data could not be extracted
Stanzani 2014 ³⁰⁸	Only a subgroup (8 patients) were referred for CPET
Struthers 2008 ³⁰⁹	Comparison between different preoperative cardiorespiratory tests
Swart 2012 ³¹³	Data could not be extracted
Thompson 2011 ³²⁰	Study was conducted with univariate analysis
Walsh 1994 ³³¹	Study does not specify if CPET
Watson 2009 ³³⁴	CPET not included as preoperative test
West 2014 ³³⁶	Univariate analysis
Wilson 2010 ³³⁸	Non-comparative

Reference	Reason for exclusion
Young 2012 ³⁴⁶	Systematic review with a different review protocol
Zoghbi 2003 ³⁵⁰	Liver transplantation not included as a surgical type

K.4 Polysomnography

Table 4: Studies excluded from the clinical review

Reference	Reason for exclusion
Acebo 1991 ⁹	Not relevant to review questions
Aftab 2014 ¹⁴	No outcomes included that match protocol
Aguiar 2014 ¹⁶	No outcomes included that match protocol
Ahmad 2008 ¹⁷	Univariate analysis
Annamalai 2013 ²⁷	Pre-surgery patients only
Anon 2010 ¹	Univariate analysis
Apostolidou 2012 ²⁸	Study focused on complications post cardiac surgery, excluded in our protocol
Auckley 2012 ³⁰	Literature review, screened for references
Baltzan 2000 ³⁷	Not relevant to review questions
Baugh 2013 ⁴⁰	Obstructive sleep apnoea diagnosed via means other than polysomnography (taken from insurance claim form)
Beebe 2013 ⁴²	Not relevant to review questions
Blake 2008 ⁴⁸	Obstructive sleep apnoea diagnosed via means other than polysomnography
Blankley 2009 ⁴⁹	No outcomes included that match protocol
Bryson 2010 ⁶²	Included grade 1 and 2 surgeries, and did not exclude cardiac surgery. Included patients who had potential previous diagnosis of obstructive sleep apnoea.
Burgess 1992 ⁶³	Technology and equipment review, not relevant to our protocol
Carneiro ⁶⁹ 2012	No relevant outcomes
Cartagena 2005 ⁷¹	No extractable data
Chong 2013 ⁸²	Univariate analysis
Chung 2007 ⁹⁰	Univariate analysis
Chung 2008 ⁹¹	Systematic review, did not match protocol. Screened for references.
Chung 2008 ⁸⁶	Information in included paper Chung 2008 ⁹¹
Chung 2014 ⁸⁹	No outcomes included that match protocol
Chung 2012 ⁸⁵	Study validating other screening tools, no results on surgical outcome
Chung 2015 ⁸⁸	No variance data
Esclamado 1989 ¹¹⁸	Univariate analysis
Fleischman 2014 ¹²⁸	No relevant outcomes
Flink 2012 ¹³⁰	Included patients diagnosed with OSA by methods other than polysomnography and no separate analysis
Finkel 2008 ¹²⁵	Univariate analysis

Reference	Reason for exclusion
Goettal 2012 ¹³⁸	Not relevant to review questions
Gong 2011 ¹⁴¹	Not in English language
Gupta 2001 ¹⁴⁸	Included patients with oximetry-diagnosed obstructive sleep apnoea
Haines 2007 ¹⁴⁹	Univariate analysis
Hallowell 2007 ¹⁵⁴	Univariate analysis
Hathaway 2006 ¹⁵⁷	Univariate analysis
Hwang 2009 ¹⁷¹	Obstructive sleep apnoea diagnosed via means other than polysomnography
Istfan 2011 ¹⁷³	Obstructive sleep apnoea diagnosed via means other than polysomnography
Jarrell 1999 ¹⁸⁰	Literature review, screened for references
Joshi 2012 ¹⁸⁵	Literature review, screened for references
Kaw 2011	No confidence intervals
Kieff 2004 ¹⁹⁰	Univariate analysis and no polysomnography used
Kim 2005 ¹⁹²	Univariate analysis
Kostantinidis 2014 ¹⁹⁷	Not relevant to review questions
Liao 2009 ²¹²	Obstructive sleep apnoea diagnosed via means other than polysomnography
Lipford 2015 ²¹⁵	Unable to obtain paper
Mador 2013 ²²¹	Included cardiac surgery in intervention
Memtsoudis 2013 ²³⁸	No polysomnography used
Meoli 2003 ²³⁹	Not relevant to review questions
Mokleshi 2013 ²⁴³	Obstructive sleep apnoea diagnosed via means other than polysomnography
Mutter 2014 ²⁴⁸	Population indirect, not obese, and included patients who had polysomnography up to 5 years prior to surgery
Pollak 2004 ²⁷⁴	Univariate analysis
Rahimi 2003 ²⁷⁷	Univariate analysis
Sabers 2003 ²⁸⁵	Included grade 1 and 2 surgeries, and did not exclude cardiac surgery
Sallet 2011 ²⁸⁷	Not relevant to review questions
Selim 2014 ²⁹¹	Unable to obtain paper
Shafazand 2009 ²⁹⁴	No extractable data
Smetana 2014 ³⁰⁰	Unable to obtain paper
Sundar 2011 ³¹¹	Literature review, screened for references

K.5 Health technology assessment update: pulmonary function tests, full blood count, and kidney function tests

Table 5: Studies excluded from the clinical review

Reference	Reason for exclusion
Abdelhamid et al. (2013) ⁴	Univariate analysis

Reference	Reason for exclusion
Abdelmalak 2013 ⁵	Does not measure preoperative parameters, only perioperative
Abughanem 2014 ⁸	Prognostic factor of interest used in a standardised threshold for blood transfusion
Ajimura 2005 ¹⁸	Only descriptive, no analysis carried out
Alazzawi 2012 ²⁰	Univariate analysis
Ali 2012 ²²	Univariate analysis
Alsaleh 2013 ²⁴	Does not assess preoperative tests
Amrock 2014 ²⁶	Incorrect prognostic factor
Bachrach 2014 ³³	Incorrect analysis type
Badner 2010 ³⁴	Univariate analysis
Baron 2014 ³⁸	Elective surgery used as reference group so no data provided
Basora 2014 ³⁹	Intervention to optimise the HB prior to surgery
Billings 1993 ⁴⁷	Audit with univariate analysis
Boaz 2012 ⁵⁰	Univariate analysis
Brynmiarski 2013 ⁶⁰	Preoperative tests not linked to outcomes of interest
Bryson 2006 ⁶¹	Univariate analysis
Carruthers 2012 ⁷⁰	Outcome related to cancer survival rather than surgery
Cattano 2010 ⁷²	Not a preoperative test as such
Chong 2011 ⁸³	Univariate analysis
Coakley 2012 ⁹²	Emergency surgery
Coan 2013 ⁹³	Preoperative tests do not match the protocol
Cohen 2014 ⁹⁴	No outcomes relevant to the protocol
Crapo 1986 ⁹⁸	Univariate analysis
Dajani 2009 ⁹⁹	Outcome unrelated to surgery
Dimkovic 2002 ¹⁰²	Dialysis rather than surgery
Dunham 2014 ¹⁰⁴	Only perioperative factors reported
Dunne 2002 ¹⁰⁷	Includes emergency surgery
Ebert 1997 ¹⁰⁸	RCT comparing 2 drugs, testing incidental
Elhenawy 2015 ¹¹³	Protocol only
Elmistekawy 2013 ¹¹⁴	Cardiac surgery
Faintuch 2004 ¹²¹	No outcomes relevant to the protocol
Finegan 2005 ¹²⁴	Preoperative tests ordered according to 'usual practice' compared to tests ordered by 'attending anaesthesiologist/ anaesthesiology resident' mean number of tests ordered did not differ between groups
Fischer 2012 ¹²⁶	Univariate analysis
Fischer 2014 ¹²⁷	Results not multivariate
Fujiwara 2010 ¹³²	Outcomes only related to perioperative changes, not preoperative values
Gallus 1973 ¹³³	Univariate analysis
Golub 1992 ¹⁴⁰	Univariate analysis
Grigorakos 2008 ¹⁴⁵	Univariate analysis
Hill 2012 ¹⁶²	Univariate analysis
Iwasaki 2009 ¹⁷⁵	No outcomes relevant to the protocol

Reference	Reason for exclusion
Johansen 2013 ¹⁸¹	Dialysis rather than surgery
Johnson 1988 ¹⁸²	Univariate analysis
Kaloglu 2014 ¹⁸⁸	Incorrect outcomes
Kamimura 2006	Post-surgical outcomes not reported
Kim 2015 ¹⁹¹	Prognostic factor of interest not in multivariable analysis
Ku 2015 ²⁰¹	Outcome unrelated to surgery
Lee 2012 ²⁰⁹	Post-operative anaemia
Li 2014 ²¹¹	Incorrect outcomes
Licciardello 2014 ²¹³	Prognostic factor of interest not in multivariable analysis
Ma 2014 ²¹⁹	Prognostic factor of interest not in multivariable analysis
Macpherson 1990 ²²⁰	Univariate analysis
Mantha 2005 ²²⁵	Univariate analysis
Matsumoto 2014 ²³⁰	Outcome unrelated to surgery
McAlister 2003 ²³²	Study designed to identify who should have pulmonary function tests rather than at the time of surgery, that is, the preoperative effectiveness of these tests
McKee 1987 ²³⁴	Univariate analysis
McKibbin 1996 ²³⁵	Post-surgical outcomes not reported
Metindir 2009 ²⁴⁰	Outcomes not relevant to the protocol
Montan 2015 ²⁴⁴	Incorrect analysis type
Mooney 2013 ²⁴⁵	Systematic review not matching our protocol
Moschini 2014 ²⁴⁷	Outcome unrelated to surgery
Nascimento 2004 ²⁵³	Univariate analysis
Ngo 2013 ²⁵⁵	Outcome unrelated to surgery
Peng 2014 ²⁷⁰	Incorrect prognostic factor
Potter 2015 ²⁷⁵	Insufficient detail on included study methods
Ramaswamy 2004 ²⁷⁸	Preoperative tests occurrence of diagnosis anaemia only, no inclusion of peri/post-operative complications
Sejima 2014 ²⁹⁰	Incorrect outcome
Shalwala 2015 ²⁹⁶	Outcome unrelated to surgery
Shen 2014 ²⁹⁸	Incorrect prognostic factor
Szkandera 2014 ³¹⁵	Incorrect prognostic factor
Velanovich 1991 ³²⁶	Any routine test and any type of surgery is investigated not just those in the HTA
Velanovich 1993 ³²⁷	Effects of conditions (not only defined by test but also clinical features) on surgical outcomes rather than test
Walters 1997 ³³²	Only descriptive data provided
Wang 2015 ³³³	Outcome unrelated to surgery
Wattman 1997 ³³⁵	Univariate analysis
Wittgen 1993 ³⁴⁰	Univariate analysis
Wyatt 1989 ³⁴²	Univariate analysis
Xiao 2014 ³⁴³	Incorrect prognostic factor
Yang 2015 ³⁴⁴	Outcome unrelated to surgery
You 2015 ³⁴⁵	Outcome unrelated to surgery

Reference	Reason for exclusion
Zhang 2014 ³⁴⁹	Outcome unrelated to surgery
Zhang 2014 ³⁴⁸	Incorrect prognostic factor

K.6 Glycated haemoglobin test

K.6.1 HbA1c in diabetes

Table 6: Studies excluded from the clinical review (for both diagnosed [intervention & prognostic] and undiagnosed [intervention & prognostic] reviews)

Reference	Reason for exclusion
Aarts 2013 ³	Not matching the protocol
Abdelmalak 2011 ⁶	Random blood glucose
Abdelmalak 2014 ⁷	Random blood glucose
Acott 2009 ¹⁰	Univariate analysis
Alsumait 2002 ²⁵	Not on HbA1c
Aragon-Sanchez 2011 ²⁹	Narrative description of data
Azafarin 2011 ³¹	Cardiac surgery
Biery 1987 ⁴⁵	Post-surgical outcomes not reported
Boldt 1993 ⁵³	Cardiac surgery
Cavalcantira 2002 ⁷³	Battery of tests
Chuah 2014 ⁸⁴	Not matching the protocol
Dunkelgrun 2008 ¹⁰⁵	Random blood glucose
Edelman 2010 ¹⁰⁹	Population not undergoing surgery
Egas 2011 ¹¹⁰	Not matching the protocol
Ehara 2012 ¹¹²	Abstract only
Ehara 2013 ¹¹¹	Not matching the protocol
English 2015 ¹¹⁶	Outcomes do not match protocol
Eshuis 2011 ¹¹⁹	Random blood glucose
Giakoumidakis 2012 ¹³⁵	Blood glucose
Gianchandani 2011 ¹³⁶	Diagnostic accuracy
Giorgi 2014 ¹³⁷	Univariate analysis
Goldstein 2013 ¹³⁹	Univariate analysis
Halkos 2008A ¹⁵⁰	Cardiac surgery
Halkos 2008B ¹⁵¹	Cardiac surgery
Hall 2010 ¹⁵³	Outcomes do not match protocol
Hikata 2014 ¹⁶¹	Univariate analysis
Hong 2009A ¹⁶⁶	Not matching the protocol
Hudson 2010 ¹⁶⁹	Cardiac surgery
King 2011 ¹⁹³	Narrative description of data
Kinoshita 2009 ¹⁹⁴	Cardiac surgery
Kinoshita 2012 ¹⁹⁵	Cardiac surgery
Kiran 2013 ¹⁹⁶	Random blood glucose
Koumpfan 2014 ¹⁹⁹	Outcomes do not match protocol
Kunstman 2015 ²⁰²	No extractable data

Reference	Reason for exclusion
Lara 2014 ²⁰⁴	Not a systematic review
Marchant 2009 ²²⁶	Outcomes do not match protocol
Masla 2011 ²²⁹	Cardiac surgery
O'Sullivan 2006 ²⁵⁹	Not all elective surgery
Salam 2015 ²⁸⁶	No extractable data
Sato 2010 ²⁸⁸	Cardiac surgery
Schroeder 2014 ²⁸⁹	No extractable data
Shah 2014 ²⁹⁵	Unable to obtain paper
Soares 2013 ³⁰⁷	Battery of tests
Subramaniam 2014 ³¹⁰	Cardiac surgery
Suvag 2011 ³¹²	HbA1c thresholds
Swenne 2005 ³¹⁴	Random blood glucose
Tatar 2013 ³¹⁸	Transplant surgery
Tekumit 2010 ³¹⁹	Diagnostic accuracy
Tsuruta 2011 ³²³	Cardiac surgery
Underwood 2015 ³²⁴	Outcomes do not match the protocol
Van Kuijk 2009 ³²⁵	Not matching the protocol
Wilson 2003 ³³⁹	Cardiac surgery

K.6.2 HbA1c in undiagnosed diabetes

Table 7: Studies excluded from the clinical review

Reference	Reason for exclusion
Abdelmalak 2011 ⁶	Not included HbA1c as a preoperative test
Abdelmalak 2014 ⁷	Not included HbA1c as a preoperative test
Alsumait 2002 ²⁵	Not included HbA1c as a preoperative test
Azafarin 2011 ³¹	Cardiac surgery an exclusion criterion in the protocol. Study design did not match the protocol
Biery 1987 ⁴⁵	Outcomes not matching the protocol
Bock 2015 ⁵¹	Systematic review, checked for references
Boscolo 2014 ⁵⁴	Outcomes not matching the protocol
Cavalcantilira 2002 ⁷³	Included a battery of preoperative tests (HbA1c, blood glucose and ECC)
Chandra 2014 ⁷⁷	Not included HbA1c as a preoperative test
Donatelli 2008 ¹⁰³	Cardiac surgery an exclusion criterion in the protocol
Dunkelgrun 2008 ¹⁰⁵	Not included HbA1c as a preoperative test
Eshuis 2011 ¹¹⁹	Not included HbA1c as a preoperative test
Evans 2015 ¹²⁰	Outcomes not matching the protocol
Feringa 2008 ¹²³	Included diabetic patients
Gianchandani 2011 ¹³⁶	Study design (diagnostic accuracy) did not match the protocol
Goldstein 2013 ¹³⁹	Included diabetic patients
Goranovic 2014 ¹⁴⁴	Not included HbA1c as a preoperative test
Halkos 2008 ¹⁵⁰	Cardiac surgery an exclusion criterion in the protocol
Halkos 2008a ¹⁵²	Cardiac surgery an exclusion criterion in the protocol

Reference	Reason for exclusion
Halkos 2008b ¹⁵¹	Cardiac surgery an exclusion criterion in the protocol
Hjellestad 2015 ¹⁶³	Outcomes not matching the protocol
Hudson 2010 ¹⁶⁹	Cardiac surgery an exclusion criterion in the protocol
Jamsen 2010 ¹⁷⁸	No variance analysis
Jamsen 2015 ¹⁷⁹	Included diabetic patients
Kinoshita 2012 ¹⁹⁵	Cardiac surgery an exclusion criterion in the protocol
Kiran 2013 ¹⁹⁶	Not included HbA1c as a preoperative test
Kotagal 2015 ¹⁹⁸	Not included HbA1c as a preoperative test
Koumpanzo 2014 ¹⁹⁹	Study design did not match the protocol
LaBoone 2014 ²⁰³	Unable to obtain paper
Lee 2014 ²⁰⁸	Not included HbA1c as a preoperative test
Malcolm 2014 ²²²	Outcomes not matching the protocol
Marchant 2009 ²²⁶	Comparison of outcomes was made between diabetes, uncontrolled diabetes and no diabetes groups
Masla 2011 ²²⁹	Cardiac surgery an exclusion criterion in the protocol
Morrison 2014 ²⁴⁶	Not included HbA1c as a preoperative test
Ochoa 2014 ²⁶¹	Outcomes not matching the protocol
O'Sullivan 2006 ²⁵⁹	Included emergency surgeries (no reference on the %)
Sato 2010 ²⁸⁸	Cardiac surgery an exclusion criterion in the protocol. Study design didn't match our protocol
Shalwala 2015 ²⁹⁶	Not included HbA1c as a preoperative test
Soares 2013 ³⁰⁷	Not included HbA1c as a preoperative test
Subramaniam 2014 ³¹⁰	Cardiac surgery an exclusion criterion in the protocol
Tekumit 2010 ³¹⁹	Study design (diagnostic accuracy) did not match the protocol
Wilson 2003 ³³⁹	Cardiac surgery an exclusion criterion in the protocol
Wukich 2011 ³⁴¹	Outcomes not matching the protocol

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