

CLINICAL QUESTIONS – STABLE ANGINA

| Questions | Population (and subgroups) | Intervention | Comparison | Outcomes |
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| <p>Q1) What is the clinical /cost effectiveness of nicorandil for the management of angina?</p> <p>Preferred: Double blind RCTs Minimum number of participants n=50 >60% patients with stable angina 3 month follow up Adverse event data to be sourced from RCTs only</p> | <p>Adults with a diagnosis of stable angina</p> <p>including people with diabetes, South Asians, women, minimal coronary heart disease</p> <p>Patients who have recurrence of anginal symptoms following revascularisation.</p> | <p>Potassium channel activator:</p> <ul style="list-style-type: none"> Nicorandil | <p>In patients taking or not taking background therapies (same baseline combinations in both arms), Nicorandil vs. placebo Nicorandil vs. other antianginal monotherapy:</p> <ul style="list-style-type: none"> Beta blockers CCB LA nitrates ivabradine ranolazine trimetazidine | <p>Note: some shorter term outcomes such as ECG changes included in newer drugs</p> <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Preferred outcomes : All cause mortality Cardiac mortality</p> <p>Other outcomes: Cardiovascular mortality Angina frequency @ longest available evaluation time point (preferred 1yr, 5yr, 10yr) Preferred outcomes : Angina incidence reported in diaries GTN usage</p> <p>Angina severity @ longest available evaluation time point (preferred 1yr, 5yr, 10yr, not below 3m)</p> |

DRAFT FOR CONSULTATION
APPENDIX B

| Questions | Population (and subgroups) | Intervention | Comparison | Outcomes |
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| | | | | <p>CCS score</p> <p>Exercise tolerance (based on repeat of baseline ETT at a min of 3m follow up) Preferred outcomes : Change in total exercise time</p> <p>Major cardiac events @ longest available evaluation timepoint (preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome: Nonfatal MI</p> <p>Hospitalisation @ 6m -1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation timepoint (preferred 1y, 5y, 10y)</p> <p>Adverse events</p> |

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APPENDIX B

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| Q2) What is the clinical /cost effectiveness of short acting drugs for the | Adults with a diagnosis of stable angina including people with diabetes, South | Short acting nitrate by buccal, lingual or sublingual administration Glyceryl trinitrate – tablet, | <ul style="list-style-type: none"> Nitrate spray vs. nitrate tablet Nifedipine vs placebo | <p>Note: these outcomes are primarily short-term outcomes</p> <p>Immediate improvement in exercise tolerance – within 30 mins of intervention</p> |

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APPENDIX B

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| <p>management of anginal symptoms?</p> <p>Preferred : Double blind RCTs Minimum n=50 >60% stable angina Adverse event data to be sourced from RCTs only</p> | <p>Asians, women, refractory angina (prophylaxis), minimal coronary heart disease</p> <p>Patients who have recurrence of anginal symptoms following revascularisation.</p> | <p>spray</p> <ul style="list-style-type: none"> •Nifedipine capsule by sublingual/buccal administration | <ul style="list-style-type: none"> • Nifedipine vs nitrate spray • Nifedipine vs nitrate tablet | <p>Preferred outcome : Change in total exercise time</p> <p>Other outcomes : Change in time to ST depression Change in time to onset of symptoms Change in time to stopping exercise Change in workload</p> <p>Frequency of angina (and prophylactic use) Preferred outcomes: Time to relief of pain Incidence of angina post-intervention</p> <p>Others Pain severity Duration of pain</p> <p>important adverse events (headache and syncope)</p> |
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| Q 3) What is the | Adults with a diagnosis | Ivabradine | Placebo CCB | Note: some shorter term outcomes such as ECG changes |
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APPENDIX B

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| <p>clinical /cost effectiveness of newer drugs for the management of angina?</p> <p>Preferred: Double blind RCTs Minimum number of participants n=50 >60% patients with stable angina 3 month follow up Adverse event data to be sourced from RCTs only</p> | <p>of stable angina including people with diabetes, South Asians, women, minimal coronary heart disease</p> <p>Patients who have recurrence of anginal symptoms following revascularisation.</p> | <p>Ranolazine</p> | <p>B blockers Nitrates Combinations</p> <p>Placebo CCB B blockers Nitrates Combinations</p> | <p>included in newer drugs</p> <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr) Preferred outcomes : All cause mortality Cardiac mortality</p> <p>Other outcomes: Cardiovascular mortality</p> <p>Angina frequency @ longest available evaluation time point (preferred 1yr, 5yr, 10yr) Preferred outcomes : Angina incidence reported in diaries GTN usage</p> <p>Exercise tolerance Preferred outcomes : Change in total exercise time</p> <p>Major cardiac events @ longest available evaluation timepoint (preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome: Nonfatal MI</p> |
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| | | | | <p>Hospitalisation @ 6m -1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation timepoint (preferred 1y, 5y, 10y)</p> <p>Adverse events</p> |
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| <p>Q4) What is the comparative clinical /cost effectiveness of standard antianginal drugs (calcium channel blockers, long acting nitrates) for the management of angina?</p> | <p>Adults with a diagnosis of stable angina including people with diabetes, South Asians, women, minimal coronary heart disease</p> | What is best drug to use first? | | <p>Mortality all cause @ longest available evaluation time point (preferred 5yr, 10 yr) Preferred outcomes :</p> <p>Cardiac mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Angina frequency @ longest available evaluation time point (preferred 1yr, 5yr, 10yr) Preferred outcomes :</p> |
| | | B blocker | CCB | |
| | | Are 2 drugs better than one? | | |
| | | B blocker | B blocker+ CCB | |
| | | CCB | B blocker + CCB | |
| | | What is benefit of adding long acting nitrate? | | |
| | | B blocker + CCB | B Blocker + nitrate | |
| | | B blocker + CCB | B blocker + CCB + nitrate | |
| CCB | CCB + nitrates | | | |

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APPENDIX B

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| <p>Preferred : Double blind RCTs Minimum n=50 >60% stable angina Minimum Follow Up = 3m Adverse event data to be sourced from RCTs only</p> | | B blocker | CCB + nitrates | <p>Angina incidence reported in diaries GTN usage</p> <p>Major cardiac events @ longest available evaluation time point (preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome: Nonfatal MI</p> <p>Hospitalisation @ 6m -1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation timepoint (preferred 1y, 5y, 10y)</p> |
| | | CCB | B Blocker + nitrate | |
| | | CCB + B blocker | CCB+ nitrate | |
| | | <p><u>Beta blockers</u> atenolol , propranolol, bisoprolol, metoprolol, nadolol,</p> <p><u>Calcium channel blockers</u> amlodipine, diltiazem, felodipine, nifedipine, verapamil)</p> <p><u>Long acting nitrates</u> Isosorbide dinitrate Isosorbide mononitrate</p> | | |

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APPENDIX B

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| <p>Q 5) What is the clinical/cost effectiveness of aspirin or clopidogrel to alleviate angina symptoms and to improve long term outcomes?</p> <p>Preferred: Double blind RCTs Minimum number of participants n=50 >60% patients with stable angina</p> | <p>Adults with a diagnosis of stable angina</p> <ul style="list-style-type: none"> including people with diabetes, South Asians, women, minimal coronary heart disease. | <p>(1) Aspirin (acetylsalicylic acid) + standard antianginal drugs (2) Clopidogrel, ticlopidine + standard antianginal drugs</p> | <p>Aspirin +standard anginal treatment vs. standard anginal treatment</p> <p>Clopidogrel ,ticlopidine+ standard anginal treatment vs. standard anginal treatment</p> <p>Aspirin + clopidogrel,ticlopidine + standard anginal treatment vs. standard anginal treatment</p> | <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Preferred outcomes : All cause mortality Cardiac mortality</p> <p>Other outcomes: Cardiovascular mortality</p> <p>Major cardiac events @ longest available evaluation time point (preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome: Nonfatal MI</p> |

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APPENDIX B

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| <p>Minimum 1yr follow up Adverse event data to be sourced from RCTs only</p> | | | | <p>Hospitalisation @1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation timepoint (preferred 1y, 5y, 10y)</p> <p>Adverse events</p> |
| <p>Q 6) What is the clinical /cost effectiveness of ACE inhibitors or ARBs for the management of angina?</p> <p>Preferred: Double blind RCTs Minimum number of participants n=50</p> | <p>Adults with a diagnosis of stable angina</p> <ul style="list-style-type: none"> including people with diabetes, South Asians, women, minimal coronary heart disease. | <p>(1) ACE inhibitors (in addition to standard anti-anginal treatment) captopril, cilazapril, enalapril, fosinopril, imidapril, lisinopril, moexipril, perindopril, quinapril, ramipril, trandolapril</p> <p>(2) ARBs (in addition to standard anti-anginal treatment) candasartan, valsartan, losartan, irbesartan, eprosartan, olmesartan, telmisartan</p> | <p>ACE or ARB vs. Standard anti-anginal treatment (without ACE/without ARB)</p> | <p>Mortality @ longest available evaluation timepoint (preferred 5yr, 10 yr)</p> <p>Preferred outcomes : All cause mortality Cardiac mortality</p> <p>Other outcomes: Cardiovascular mortality</p> <p>Major cardiac events @ longest available evaluation timepoint (preferred 1yr, 5yr, 10yr)</p> |

DRAFT FOR CONSULTATION
APPENDIX B

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| <p>>60% patients with stable angina Minimum 1yr follow up Adverse event data to be sourced from RCTs only</p> | | | | <p>Preferred outcome: Nonfatal MI</p> <p>Hospitalisation @1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation time point (preferred 1y, 5y, 10y)</p> <p>Adverse events</p> |
| <p>Q7) What is the clinical /cost effectiveness of using statin therapy in patients with normal coronary arteries (syndrome X)?</p> <p>Preferred: Double blind RCTs Minimum number</p> | <p>For statins: Patients with typical symptoms of angina and minimal coronary heart disease</p> | <p>Statins (HMG CoA reductase inhibitors) atorvastatin, fluvastatin, pravastatin, rosuvastatin, simvastatin (+/- standard anti-anginal treatment)</p> | <p>Placebo or no treatment (+/- standard anti-anginal treatment)</p> | <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Preferred outcomes : All cause mortality Cardiac mortality</p> <p>Other outcomes: Cardiovascular mortality</p> <p>Major cardiac events @ longest available evaluation time point (preferred 1yr, 5yr, 10yr)</p> |

DRAFT FOR CONSULTATION
APPENDIX B

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| <p>of participants n=50 >60% patients with stable angina Minimum 1yr follow up Adverse event data to be sourced from RCTs only</p> | | | | <p>Preferred outcome: Nonfatal MI</p> <p>Hospitalisation @1yr</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation timepoint (preferred 1y, 5y, 10y)</p> <p>Adverse events</p> |
| <p>Q 8) In adults with angina, what is the clinical/cost effectiveness of revascularisation techniques to alleviate angina symptoms and to improve long term outcomes?</p> | <p>Adults with a diagnosis of stable angina</p> <p>Subgroups:</p> <ul style="list-style-type: none"> • diabetes, South Asians, women, • Number of vessels – single, double, or triple vessel coronary artery disease, (with or with | <p>PCI (includes coronary angioplasty and stents), CABG</p> | <p>PCI vs. CABG</p> | <p>exercise tolerance @ 6 months and longer</p> <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Preferred outcomes:</p> <ul style="list-style-type: none"> • All cause mortality • Cardiac mortality <p>Other outcomes:</p> |

DRAFT FOR CONSULTATION
APPENDIX B

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| <ul style="list-style-type: none"> • RCTs • Minimum N=50 • >60% stable angina • Adverse event data to be sourced from RCTs only • Cohort studies N > 2000 | <p>not involving proximal left anterior descending (LAD) artery)</p> <ul style="list-style-type: none"> • Left main stem disease (LMS) • LV function • Prior revascularisation | | | <ul style="list-style-type: none"> • Cardiovascular mortality <p>Angina frequency/severity @ longest available evaluation time point (preferred 1yr, 5yr, 10yr, not below 3 months)</p> <p>Preferred outcomes:</p> <ul style="list-style-type: none"> • Angina incidence reported in diaries • GTN usage • CCS score <p>Major cardiac events @ longest available evaluation time point (preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome:</p> <ul style="list-style-type: none"> • Nonfatal MI <p>Hospitalisation @ 6m and longer</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life e.g. EQ-5D, SF-36, HAD, etc @ longest available evaluation time point (preferred 1y, 5y, 10y)</p> |
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| <p>Q 9) What is the clinical/cost effectiveness of revascularisation compared to pharmacotherapy in stable angina?</p> <p>RCTs Minimum N=50 >60% stable angina Adverse event data to be sourced from RCTs only Cohort studies N > 2000</p> | <p>Adults with a diagnosis of stable angina</p> <p>Subgroups:</p> <ul style="list-style-type: none"> • diabetes, South Asians, women, • Number of vessels – single, double, or triple vessel coronary artery disease, (with or with not involving proximal left anterior descending (LAD) artery) • Left main stem disease (LMS) • LV function • Prior revascularisation | <p>PCI , CABG</p> | <p>PCI vs. Medical therapy</p> <p>CABG vs. Medical therapy</p> <p>PCI +CABG vs. Medical therapy</p> | <p>exercise tolerance @ 6 months and longer</p> <p>Mortality @ longest available evaluation time point (preferred 5yr, 10 yr)</p> <p>Preferred outcomes:</p> <ul style="list-style-type: none"> • All cause mortality • Cardiac mortality <p>Other outcomes:</p> <ul style="list-style-type: none"> • Cardiovascular mortality <p>Angina frequency/severity @ longest available evaluation time point (preferred 1yr, 5yr, 10yr, not below 3 months)</p> <p>Preferred outcomes:</p> <ul style="list-style-type: none"> • Angina incidence reported in diaries • GTN usage • CCS score <p>Major cardiac events @ longest available evaluation time point</p> |

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| | | | | <p>(preferred 1yr, 5yr, 10yr)</p> <p>Preferred outcome:</p> <ul style="list-style-type: none"> • Nonfatal MI <p>Hospitalisation @ 6m and longer</p> <p>Revascularisation @ 1yr, 5yr, 10yr if available</p> <p>Quality of Life eg EQ-5D, SF-36, HAD, etc @ longest available evaluation time point (preferred 1y, 5y, 10y)</p> |
| <p>Q10) What is the clinical/cost effectiveness of cardiac rehabilitation programmes for patients with stable angina</p> <p>Threshold of reporting for all = angina patients > 60% of population</p> | <p>Adults with stable angina</p> <p>- including people with diabetes, South Asians minimal coronary heart disease and women?</p> | <ul style="list-style-type: none"> • Exercise based cardiac rehabilitation programmes • Psychological interventions • Behavioural interventions • Cognitive interventions • Health education interventions. • Exercise training in | <p>Standard care/usual medical care as defined by the study</p> | <p>Improvement in Angina symptoms- Frequency of angina Consumption of nitroglycerin</p> <p>All cause mortality, cardiac mortality, cardiovascular mortality @ 5yr, 10yr</p> <p>Frequency of angina, improvement in exercise tolerance e.g. 1m, 1yr, 5yr</p> <p>Major cardiac events – non fatal MI</p> |

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| | | addition to psychological, behavioural and/or health education interventions. (i.e. Comprehensive rehab programmes) | | <p>e.g. 1yr, 5yr</p> <p>Hospitalisation e.g. 1yr, 5yr, 10yr</p> <p>Revascularisation rates e.g. 5yr, 10yr</p> <p>Quality of Life (including anxiety and depression) e.g. EQ-5D, SF-36, HAD, etc @ 1yr, 5yr, 10 yr</p> <p>Adverse effects</p> |
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| Questions | Population (and subgroups) | Intervention | Comparison | Outcomes |
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| 11) Cardiac syndrome X | All adults with a diagnosis of syndrome X | BB, nitrates, CCB, ACEs , ARBs, Nicorandil, Ranolazine, Ivabradine, Aspirin | BB, nitrates, CCB, ACEs , ARBs, Nicorandil, Ranolazine, Ivabradine, Aspirin | <p><u>Immediate improvement</u> in exercise tolerance – within 30 mins of intervention</p> <p><i>Preferred outcome:</i></p> <ul style="list-style-type: none"> • Change in total exercise time <p><i>Other outcomes:</i></p> <ul style="list-style-type: none"> • Change in time to ST depression • Change in time to onset of symptoms • Change in time to stopping exercise |

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| | | | | <ul style="list-style-type: none">• Change in workload <p><u>Frequency and/or severity of angina (and prophylactic use)</u> <i>Preferred outcomes:</i></p> <ul style="list-style-type: none">• Time to relief of pain• Incidence of angina post-intervention <p><i>Other outcomes:</i></p> <ul style="list-style-type: none">• Pain severity• Duration of pain <p><u>Important adverse events</u> (headache and syncope)</p> |
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| Questions | Population (and subgroups) | Intervention | Comparison | Outcomes |
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| <p>12) Which tables, equations, engines, models or scoring systems are most effective for prognostic -risk stratification in prediction of adverse cardiac outcomes in adults with stable angina?</p> | <p>Adults with a diagnosis of stable angina – including people with diabetes, South Asians, women</p> | <p>Risk tables, equations, engines, models or scoring systems</p> | <p>Possible Clinical variables :</p> <p>Age Gender Hypertension Diabetes mellitus Previous MI Heart rate Smoking history Current drug therapy Body Mass Index Waist circumference ECG</p> | <p>All cause mortality, cardiac mortality, cardiovascular mortality,</p> <p>Major cardiac events – fatal MI, non fatal MI</p> <p>Hospitalisation</p> <p><i>Look at Registry studies of people with Angina with prognosis purposes and risk scores. Cohort studies over 1000 Large randomised trials patients. Look at – ACTION Score trial</i></p> |

DRAFT FOR CONSULTATION
APPENDIX B

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| <p>Q13) What is the INCREMENTAL value/effectiveness of anatomical/functional tests for prognostic risk stratification in prediction of adverse cardiac outcomes in adults with stable angina?</p> | <p>Adults with a diagnosis of stable angina – including people with diabetes, South Asians, women</p> | <p>Anatomical/functional tests</p> <ul style="list-style-type: none"> -Exercise ECG / exercise tolerance test / exercise stress test / stress ECG. -Stress echocardiography/exercise, dobutamine, dipyridamole, adenosine- stress echocardiography. -Stress myocardial perfusion imaging/ MPS/ myocardial perfusion scintigraphy / exercise thallium MPS. -MPS using single photon emission CT (SPECT). -Stress magnetic resonance imaging / stress perfusion imaging / stress induced motion wall abnormalities. -Magnetic resonance coronary angiography. -Computed tomography CT / CT coronary angiography / | <p>Clinical assessment</p> | <p>All cause mortality, cardiac mortality, cardiovascular mortality, Major cardiac events –fatal MI, non-fatal MI Hospitalisation</p> |
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DRAFT FOR CONSULTATION
APPENDIX B

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| | | <p>multi slice CT / CT coronary angiography / CAT</p> <p>-Ca scoring</p> <p>-Electron beam CT (EBCT).</p> <p>- Coronary angiography</p> | | |
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| <p>Q14) What is the clinical/cost effectiveness of (angina specific) specialised pain interventions in patients with stable angina?</p> | <p>Adults with diagnosed stable angina</p> <p>- including people with diabetes, South Asians, refractory angina, minimal coronary heart disease and women</p> <p>(Comment only - not to be reviewed) patients who have recurrence of anginal symptoms following revascularisation</p> | <p>Pain management</p> <p>TENS (Transcutaneous electric nerve stimulation), Spinal cord stimulation (NICE TA), Cognitive Behavioural Therapy, Temporary or destructive sympathectomy, Analgesics (inc opioids – oral, transdermal, epidural, transthecal.), Myocardial laser (percutaneous or transmymocardial) (NICE TA), EECF (Enhanced external</p> | <p>Treatment vs. no treatment</p> <p>Treatment vs. placebo</p> <p>Treatment A vs. treatment B</p> | <p>All cause mortality, cardiac mortality, cardiovascular mortality, @ 5yr, 10yr</p> <p>Frequency of angina, improvement in exercise tolerance (immediate relief, symptoms over longer period e.g. 5yr, 10yr)</p> <p>Major cardiac events – non fatal MI</p> <p>Procedural morbidity e.g. @ 1m, 1yr</p> <p>Hospitalisation e.g. 5yr, 10yr</p> <p>Revascularisation rates e.g. 5yr, 10yr</p> |
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DRAFT FOR CONSULTATION
APPENDIX B

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| | | counterpulsation) Acupuncture | | Quality of Life e.g. EQ-5D, SF-36, HAD, etc @ 1yr, 5yr, 10yr Adverse events |
| Q15) What are the education and information needs of adults with stable angina to optimise their understanding of their diagnosis and of their participation in treatment decisions? | Adults with a diagnosis of stable angina including people with diabetes, South Asians, women, refractory angina, minimal coronary heart disease | Patient education/information interventions (including information on sexual activity, choice of drugs vs. revascularisation) | No comparison group. This is a question best answered using qualitative methods or studies with good validated survey methodology. | Information on - <ul style="list-style-type: none"> • Condition and the symptoms • Treatment Side effects of Drugs Choice of drugs Choice of treatment (drugs or revascularization) • Post treatment care Need for Rehab Type of rehab Diet • Prevention • Activities for daily living • Quality of life • Prognosis /complications- As reported in the papers |

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| <p>Q16) What is the clinical /cost effectiveness of angina specific interventions to modify lifestyle/CVD risk factors to reduce symptoms, morbidity and mortality and improve quality of life in angina patients?</p> | <p>Adults with stable angina</p> <p>- including people with diabetes, South Asians, refractory angina, minimal coronary heart disease and women?</p> | <p>Programmes specifically for angina patients which modify lifestyle/CVD risk factors including</p> <p>Diet (including folic acid, vitamin E,C, beta carotene supplements, Omega 3-acid ethyl esters, Mediterranean diet, low saturated diet, plant sterols esters, low glycemic diet, fruit and vegetables, fish diet, high fibre diet)</p> <p>Physical activity</p> <p>Alcohol consumption Smoking cessation Weight management</p> <p>(*Any other life style factors to be included??)</p> | <p>No life style changes</p> | <p>All cause mortality, cardiac mortality, cardiovascular mortality @ 1yr, 5yr, 10yr</p> <p>Frequency of angina, improvement in exercise tolerance e.g. 1m, 1yr, 5yr</p> <p>Major cardiac events – non fatal MI e.g. 1yr, 5yr, 10yr</p> <p>Hospitalisation e.g. 1yr, 5yr, 10yr</p> <p>Revascularisation rates e.g. 1yr, 5yr, 10yr</p> <p>Quality of Life (including anxiety and depression) e.g. EQ-5D, SF-36, HAD, etc @ 1yr, 5yr, 10 yr</p> <p>Adverse effects</p> |