| Table | S1. Evolving definitions of Type 2 Myocardial Infarction. |
|-------|---|
| Year | Universal Definition of Type 2 Myocardial Infarction |
| 2007 | Myocardial infarction secondary to ischaemia due to either increased oxygen demand or decreased supply, e.g. coronary artery spasm, coronary embolism, anaemia, arrythmias, hypotension or hypertension |
| 2012 | Instances of myocardial injury with necrosis where a condition other than coronary artery disease contributes to an imbalance between myocardial oxygen supply and/or demand e.g. coronary artery spasm, coronary embolism, anaemia, arrythmias, hypotension or hypertension |
| 2018 | Detection of a rise and/or fall of cTn values with at least one value above the 99th percentile URL, and evidence of an imbalance between myocardial oxygen supply and demand unrelated to coronary thrombosis, requiring at least one of the following: - Symptoms of acute myocardial ischaemia - New ischaemic ECG changes - Development of pathological Q waves - Imaging evidence of new loss of viable myocardium or new regional wall motion abnormality in a pattern consistent with an ischaemic aetiology |

Table S2. Search strategy.

MEDLINE: (type 2 adj3 myocard*) OR (type-2 adj3 myocard*) OR (type II adj3 myocard*) OR (type-II adj3 myocard*) OR (type 2 adj3 MI) OR (type-2 adj3 MI) OR T2MI OR (supply demand adj3 myocard*)

EMBASE: ('type 2' NEXT/3 myocard*) OR ('type-2' NEXT/3 myocard*) OR ('type ii' NEXT/3 myocard*) OR ('type-ii' NEXT/3 myocard*) OR ('type-2' NEXT/3 mi) OR ('type-2' NEXT/3 mi) OR ('t2mi') OR ('supply demand' NEXT/3 myocard*)

| Author, Year | Pati | ents | Design | Definition | Geographic | Screening | Troponin |
|--------------------------------|-------|------|---------------|------------|---------------|--|-----------------|
| Addition, Tear | T1MI | T2MI | Design | of MI | location | Sercering | Assay |
| Arora, 2018 (1) | 775 | 264 | Retrospective | 2012 | USA | NSTEMI patients | cTnl |
| Balanescu, 2020 (2) | 152 | 49 | Retrospective | 2018 | USA | AMI patients | N/A |
| Baron, 2016 (3) | 40501 | 1313 | Prospective | 2007 | Sweden | AMI patients | hs-cTnT |
| Bonaca, 2012 (4) | 359 | 42 | Prospective | 2007 | Multinational | TRITON TIMI 38 trial | N/A |
| Cediel, 2017 (5) | 376 | 194 | Retrospective | 2012 | Spain | ED patients with at least 1 troponin | cTnl |
| Chapman, 2018 (6) | 1171 | 429 | Prospective | 2012 | UK | ED with elevated troponin | cTnl |
| Chapman, 2020 (7) | 4981 | 1121 | Prospective | 2018 | UK | Suspected ACS | cTnl |
| Consuegra-Sanchaz, 2018 (8) | 125 | 75 | Retrospective | 2012 | Spain | ED patients with at least 1 troponin | cTnl hs-cTnT |
| El-Haddad, 2012 (9) | 512 | 295 | Retrospective | 2012 | USA | Patients with elevated troponin | N/A |
| Etaher, 2020 (10) | 97 | 121 | Prospective | 2018 | Australia | Patients with elevated troponin | N/A |
| Furie, 2019 (11) | 349 | 206 | Retrospective | 2012 | Israel | NSTEMI on general ward | Unknown |
| Guimaraes, 2018 (12) | 847 | 76 | Retrospective | 2012 | Multinational | ACS during TRACER trial | N/A |
| Hawatmeh, 2020 (13) | 664 | 281 | Retrospective | 2012 | USA | NSTEMI patients | cTnl |
| Higuchi, 2019 (14) | 12023 | 491 | Retrospective | 2012 | Tokyo | Admitted to CCU | N/A |
| laved, 2009 (15) | 143 | 64 | Retrospective | 2007 | USA | Patients with elevated troponin | cTnI |
| Kadesjo, 2019 (16) | 1111 | 251 | Retrospective | 2018 | Sweden | MI, Registry | N/A |
| Lambrecht, 2018 (17) | 360 | 119 | Prospective | 2007 | Denmark | Hospitalised patients with troponin measured | cTnl |
| Landes, 2016 (18) | 107 | 107 | Retrospective | 2012 | Israel | Diagnosed with T2MI and T1MI | cTnT |
| Lopez-Cuenca, 2016 (19) | 707 | 117 | Retrospective | 2012 | Spain | Diagnosed with T2MI and T1MI | hs-cTnT |
| Meigher, 2016 (20) | 340 | 452 | Retrospective | 2012 | Germany | ED patients with elevated troponin | cTnl |
| Nestelberger, 2017 (21) | 684 | 128 | Prospective | 2012 | Multinational | ED patients with MI | N/A |
| Neumann, 2017 (22) | 188 | 99 | Prospective | 2012 | Germany | ED patients with suspected MI | hs-cTnI |

| Paiva, 2015 (23) | 764 | 236 | Retrospective | 2012 | Portugal | Admitted to CCU with MI | cTnl |
|---------------------------|-------|------|---------------|------|-------------|--|------|
| Pandey, 2020 (24) | 97 | 103 | Prospective | 2018 | USA | MI | N/A |
| Putot, 2018 (25) | 2036 | 847 | Prospective | 2012 | France | ED or cardiology ward with elevated troponin | cTnl |
| Putot, 2019 (26) | 365 | 254 | Retrospective | 2018 | France | Hospitalised patients with CAD | cTnl |
| Putot, 2020 (27) | 3710 | 862 | Retrospective | 2012 | France | Hospitalised patients with MI | cTnl |
| Radovanovic, 2017 (28) | 13828 | 1091 | Retrospective | 2012 | Switzerland | Diagnosed AMI | N/A |
| Raphael, 2020 (29) | 1365 | 1054 | Retrospective | 2018 | USA | Raised troponin | cTnT |
| Reed, 2017 (30) | 88 | 162 | Retrospective | 2012 | USA | Underwent vascular surgery procedure | cTnT |
| Saaby 2013 (31) | 397 | 144 | Prospective | 2007 | Denmark | Troponin measured | cTnl |
| Saaby, 2014 (32) | 360 | 119 | Prospective | 2007 | Denmark | Elevated troponin | cTnl |
| Sandoval, 2014 (33) | 66 | 190 | Retrospective | 2012 | USA | ED patients with troponin measured | cTnl |
| Sandoval, 2017 (34) | 77 | 140 | Prospective | 2012 | USA | ED patients with troponin measured | cTnl |
| Sato, 2020 (35) | 2834 | 155 | Prospective | 2012 | Japan | Hospitalised patient with MI | N/A |
| Shah, 2015 (36) | 1171 | 429 | Prospective | 2012 | UK | Admitted with elevated troponin | cTnl |
| Singh, 2020 (37) | 2097 | 1225 | Retrospective | 2018 | USA | Age <50, MI or raised troponin | N/A |
| Smilowitz, 2018 (38) | 137 | 146 | Prospective | 2012 | USA | Admitted with raised troponin | cTnl |
| Stein, 2014 (39) | 2691 | 127 | Prospective | 2007 | Israel | Admitted to cardiology | N/A |
| Truong, 2020 (40) | 275 | 175 | Retrospective | 2012 | Russia | MI, undergoing angiogram | N/A |

cTnI = cardiac troponin I; cTnT = cardiac troponin T; hs- = high sensitivity; AMI = acute myocardial infarction; MI = myocardial infarction; ACS = acute coronary syndrome; NSTEMI = non-ST elevation myocardial infarction; CCU = coronary care unit; CAD = coronary artery disease

| Table S3b. Study character | ristics | | | | | | | |
|-----------------------------|---------|------|-------------------------|----------|--------------------|--------------------|------------|-----------|
| Author, Year | Pati | ents | | | Vai | riables | | |
| | T1MI | T2MI | Pre-existing conditions | Symptoms | Investigation s | Troponin Values | Management | Prognosis |
| Arora, 2018 (1) | 775 | 264 | Х | | Х | Х | X | Х |
| Balanescu, 2020 (2) | 152 | 49 | | Х | Х | | Х | |
| Baron, 2016 (3) | 40501 | 1313 | X | Х | X | Χ | X | |
| Bonaca, 2012 (4) | 359 | 42 | | | | | | |
| Cediel, 2017 (5) | 376 | 194 | Х | Х | Х | Χ | | Х |
| Chapman, 2018 (6) | 1171 | 429 | X | | X | Χ | X | X |
| Chapman, 2020 (7) | 4981 | 1121 | Х | Х | X | Χ | | Χ |
| Consuegra-Sanchaz, 2018 (8) | 125 | 75 | Х | Х | Х | Х | | |
| El-Haddad, 2012 (9) | 512 | 295 | | | | | | Х |
| Etaher, 2020 (10) | 97 | 121 | Х | | Х | | Х | |
| Furie, 2019 (11) | 349 | 206 | Х | Х | Х | Х | Х | Х |
| Guimaraes, 2018 (12) | 847 | 76 | Х | | Х | | Х | Х |
| Hawatmeh, 2020 (13) | 664 | 281 | Х | | Х | Х | Х | |
| Higuchi, 2019 (14) | 12023 | 491 | Х | | Х | | Х | Х |
| Javed, 2009 (15) | 143 | 64 | Х | | X | Χ | | Χ |
| Kadesjo, 2019 (16) | 1111 | 251 | Х | | | | X | Х |
| Lambrecht, 2018 (17) | 360 | 119 | Х | | Х | Χ | | Х |
| Landes, 2016 (18) | 107 | 107 | Х | Х | X | Χ | | |
| Lopez-Cuenca, 2016 (19) | 707 | 117 | Х | Χ | X | Χ | X | X |
| Meigher, 2016 (20) | 340 | 452 | X | X | X | Χ | | X |
| Nestelberger, 2017 (21) | 684 | 128 | Х | | Х | | X | Х |
| Neumann, 2017 (22) | 188 | 99 | X | | X | Χ | | X |
| Paiva, 2015 (23) | 764 | 236 | Х | | Х | Х | | Х |
| Pandey, 2020 (24) | 97 | 103 | Х | | | | | |
| Putot, 2018 (25) | 2036 | 847 | Х | | Х | Х | | Х |
| Putot, 2019 (26) | 365 | 254 | Х | | Х | Х | | Х |
| Putot, 2020 (27) | 3710 | 862 | Х | | Х | Х | | Х |
| Radovanovic, 2017 (28) | 13828 | 1091 | Х | | Х | | Х | Х |
| Raphael, 2020 (29) | 1365 | 1054 | Х | | Х | Х | Х | Х |

| Reed, 2017 (30) | 88 | 162 | | | Х | Х | Х | |
|----------------------|------|------|---|---|---|---|---|---|
| Saaby 2013 (31) | 397 | 144 | Х | | Х | Х | | |
| Saaby, 2014 (32) | 360 | 119 | Х | | Х | X | Х | X |
| Sandoval, 2014 (33) | 66 | 190 | X | X | X | X | | X |
| Sandoval, 2017 (34) | 77 | 140 | Х | Х | Х | Х | Х | X |
| Sato, 2020 (35) | 2834 | 155 | X | | X | | Χ | X |
| Shah, 2015 (36) | 1171 | 429 | Х | Х | X | X | Х | X |
| Singh, 2020 (37) | 2097 | 1225 | X | | X | | Χ | X |
| Smilowitz, 2018 (38) | 137 | 146 | X | X | X | X | Χ | X |
| Stein, 2014 (39) | 2691 | 127 | X | X | X | | Х | X |
| Truong, 2020 (40) | 275 | 175 | X | X | X | | Χ | X |
| | | | | | | | | |

| | | | Outcome | | | |
|--------------------------------|--|-----------------------------|------------|------------------|---------------------------|------------------|
| Author, Year | Representative of Exposed Cohort | Selection of Non-exposed | Assessment | Follow-up Length | Adequacy of Follow- Up | Summary |
| Arora, 2018 (1) | х | х | х | х | Х | 8 (good quality) |
| Balanescu, 2020 (2) | 0 | х | Х | 0 | Х | 6 (fair quality) |
| Baron, 2016 (3) | х | х | Х | Х | Х | 8 (good quality) |
| Bonaca, 2012 (4) | х | х | х | х | X | 8 (good quality) |
| Cediel, 2017 (5) | x | х | х | х | X | 8 (good quality) |
| Chapman, 2018 (6) | х | х | х | Х | Х | 8 (good quality) |
| Chapman, 2020 (7) | х | х | Х | х | Х | 8 (good quality) |
| Consuegra-Sanchaz, 2018 (8) | 0 | 0 | х | 0 | 0 | 3 (poor quality) |
| El-Haddad, 2012 (9) | х | х | 0 | 0 | 0 | 5 (fair quality) |
| Etaher, 2020 (10) | х | х | Х | х | Х | 8 (good quality) |
| urie, 2019 (11) | х | х | х | х | Х | 8 (good quality) |
| Guimaraes, 2018 (12) | 0 | 0 | х | 0 | x | 4 (fair quality) |
| Hawatmeh, 2020 (13) | 0 | 0 | х | х | 0 | 4 (fair quality) |
| Higuchi, 2019 (14) | 0 | 0 | х | х | Х | 5 (fair quality) |
| aved, 2009 (15) | х | х | Х | х | Х | 8 (good quality) |
| Kadesjo, 2019 (16) | х | х | Х | Х | Х | 8 (good quality) |
| Lambrecht, 2018 (17) | х | х | x | х | x | 8 (good quality) |
| andes, 2016 (18) | х | х | Х | Х | Х | 8 (good quality) |
| opez-Cuenca, 2016 19) | х | х | х | х | х | 8 (good quality) |
| Meigher, 2016 (20) | х | х | Х | х | Х | 8 (good quality) |
| Nestelberger, 2017 21) | х | х | х | х | x | 8 (good quality) |
| Neumann, 2017 (22) | х | х | Х | Х | Х | 8 (good quality) |

| Paiva, 2015 (23) | х | х | х | х | х | 8 (good quality) |
|---------------------------|---|---|---|---|---|------------------|
| Pandey, 2020 (24) | 0 | 0 | 0 | 0 | 0 | 2 (poor quality) |
| Putot, 2018 (25) | х | х | х | х | х | 8 (good quality) |
| Putot, 2019 (26) | х | х | 0 | х | х | 7 (good quality) |
| Putot, 2020 (27) | х | х | х | х | х | 8 (good quality) |
| Radovanovic, 2017 (28) | х | х | х | х | х | 8 (good quality) |
| Raphael, 2020 (29) | х | х | х | х | х | 8 (good quality) |
| Reed, 2017 (30) | х | х | х | х | х | 8 (good quality) |
| Saaby 2013 (31) | х | х | х | х | х | 8 (good quality) |
| Saaby, 2014 (32) | х | х | Х | х | х | 8 (good quality) |
| Sandoval, 2014 (33) | x | x | Х | X | х | 8 (good quality) |
| Sandoval, 2017 (34) | х | х | х | х | х | 8 (good quality) |
| Sato, 2020 (35) | 0 | 0 | 0 | х | х | 2 (poor quality) |
| Shah, 2015 (36) | х | х | х | х | х | 8 (good quality) |
| Singh, 2020 (37) | 0 | 0 | х | х | х | 6 (fair quality) |
| Smilowitz, 2018 (38) | х | х | х | х | х | 7 (good quality) |
| Stein, 2014 (39) | x | х | х | х | х | 7 (good quality) |
| Truong, 2020 (40) | X | X | X | X | х | 8 (good quality) |

| Table S5. Precipitating conditions for 3 | Г2МІ. | | |
|--|--------|----------|-------|
| Precipitating Factor | Events | Patients | % |
| Sepsis | 1116 | 3110 | 35.9% |
| Heart failure | 698 | 1943 | 35.9% |
| Arrhythmia | 1716 | 5465 | 31.4% |
| Anaemia | 1506 | 4878 | 30.9% |
| Valvular abnormality | 351 | 1301 | 27.0% |
| Respiratory failure | 743 | 3021 | 24.6% |
| Chronic obstructive pulmonary disease | 59 | 258 | 22.9% |
| Stroke | 44 | 328 | 13.4% |
| Hypertension | 291 | 2217 | 13.1% |
| Non-cardiac surgery | 103 | 841 | 12.2% |
| Shock/hypotension | 291 | 3006 | 9.7% |
| Renal failure | 51 | 553 | 9.2% |
| Pulmonary oedema | 33 | 380 | 8.7% |
| Bradycardia | 35 | 484 | 7.2% |
| Infection | 115 | 2009 | 5.7% |
| Coronary spasm | 36 | 1048 | 3.4% |
| Bleeding | 53 | 1834 | 2.9% |
| Coronary endothelial dysfunction | 1 | 592 | 0.2% |

| Table S6. Clini | ical features | on preser | ntation ir | n patients wi | th T2MI ve | ersus T1 | MI patients. |
|----------------------------------|--------------------------------------|-----------------------------------|------------|--------------------------------------|-----------------------------------|----------|--------------------------|
| | | T2MI | | | T1MI | | |
| Presenting Symptom | No. patients with presenting symptom | Total number of patients | % | No. patients with presenting symptom | Total number of patients | % | Odds ratio * [95% CI] |
| Chest pain | 3474 | 5932 | 58.6% | 58273 | 65883 | 88.4% | 0.19 [0.13, 0.26] |
| Dyspnoea | 1412 | 5210 | 27.1% | 6930 | 65129 | 10.6% | 2.64 [1.86, 3.74] |
| Arm or shoulder discomfort | 28 | 330 | 8.5% | 50 | 143 | 35.0% | 0.18 [0.11, 0.30] |
| Jaw or neck discomfort | 6 | 140 | 4.3% | 12 | 77 | 15.6% | 0.24 [0.09, 0.68] |
| Epigastric discomfort | 8 | 140 | 5.7% | 8 | 77 | 10.4% | 0.52 [0.19, 1.45] |
| Nausea or vomiting | 46 | 330 | 13.9% | 39 | 143 | 27.3% | 0.46 [0.28, 0.74] |
| Fatigue | 5 | 140 | 3.6% | 5 | 77 | 6.5% | 0.53 [0.15, 1.90] |
| Diaphoresis | 16 | 140 | 11.4% | 16 | 77 | 20.8% | 0.49 [0.23, 1.05] |
| Other nonspecific symptoms | 988 | 1529 | 64.6% | 2662 | 41396 | 6.4% | 4.9 [0.48, 50.33] |
| Collapse / syncope | 99 | 2125 | 4.7% | 157 | 7152 | 2.2% | 2.10 [1.05, 4.18] |

^{*}Comparing T2MI with T1MI patients, with odds ratio adjusted according to study weighting using random effects meta-analysis

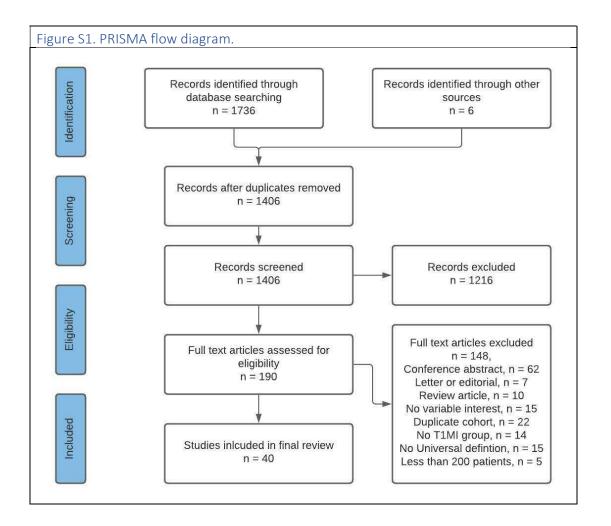
Abbreviations: URL- upper reference limit; STEMI- ST elevation myocardial infarction; NSTEMI- Non- ST elevation myocardial infarction; MI- Myocardial infarction; cTn- cardiac troponin; T1MI- Type 1 myocardial infarction; T2MI- Type 2 myocardial infarction; ECG- electrocardiogram; CAD- coronary artery disease; PCI-percutaneous coronary intervention; CABG- coronary artery bypass graft; IHD- ischaemic heart disease; MACE- Major adverse cardiovascular events; CI-confidence interval

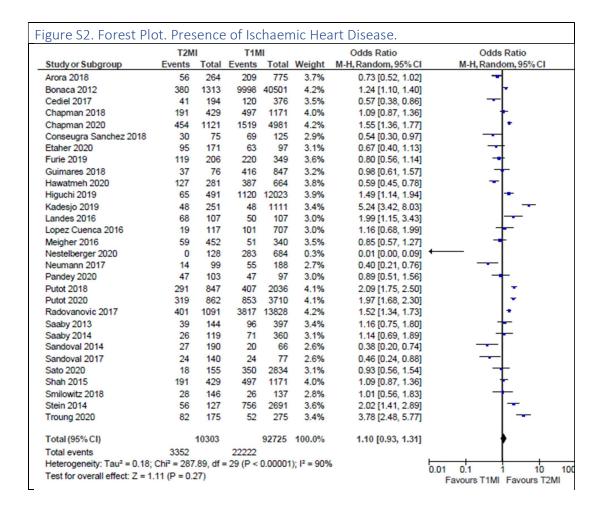
| | | T2MI | | | T1MI | | | |
|---|---|--------------------------|-------|---|----------------------------|-------|-------------------|--|
| Variable | No. patients with nominated diagnostic findings | Total no. patients | % | No. patients with nominated diagnostic findings | Total no of patients | % | | |
| ECG | | | | | | | | |
| ST elevation | 1129 | 8014 | 14.1% | 37182 | 84096 | 44.2% | 0.22 [0.17, 0.28] | |
| ST depression or T wave Inversion | 1728 | 4911 | 35.2% | 10968 | 51042 | 21.5% | 1.36 [0.85, 2.17] | |
| Pathological Q Waves | 30 | 447 | 6.7% | 177 | 850 | 20.8% | 0.38 [0.20, 0.71] | |
| Non-specific ST-T wave changes | 146 | 592 | 24.7% | 45 | 417 | 10.8% | 2.62 [1.81, 3.79] | |
| Left bundle branch block | 175 | 1927 | 9.1% | 1943 | 42543 | 4.6% | 1.62 [1.21, 2.17] | |
| Atrial fibrillation/flutter | 54 | 257 | 21% | 52 | 784 | 6.6% | 4.99 [3.14, 7.93] | |
| Echocardiograph | | | | | | | | |
| Echocardiogram performed | 648 | 1353 | 47.9% | 1571 | 2830 | 55.5% | 0.44 [0.20, 0.96] | |
| Presence of RWMA | 97 | 286 | 33.9% | 101 | 214 | 47.2% | 0.48 [0.06, 3.78] | |
| Angiogram | | | | | | | | |
| Angiogram performed | 3182 | 9318 | 34.1% | 42724 | 49944 | 85.5% | 0.09 [0.06, 0.12] | |
| Obstructive coronary artery disease present | 1246 | 3663 | 34.0% | 19923 | 44404 | 44.9% | 0.16 [0.05, 0.54] | |
| Multivessel disease present | 593 | 2147 | 27.6% | 11839 | 41715 | 28.4% | 0.40 [0.19, 0.82] | |

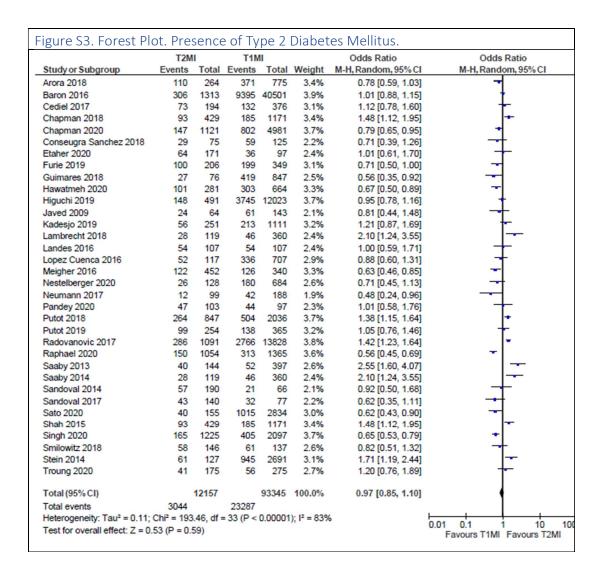
^{*}Comparing T2MI with T1MI patients, with odds ratio adjusted according to study weighting using random effects meta-analysis

ECG=electrocardiograph; RWMA=regional wall motion abnormalities; Cl=confidence interval; T2Ml=type 2 myocardial infarction; T1Ml=type 1 myocardial infarction

| Table S8. Troponin measurements. | | | | | | | |
|-------------------------------------|----------------------|----------------|----------------|--|--|--|--|
| Troponin Measurement | Number of Studies | T1MI (min-max) | T2MI (min-max) | | | | |
| Baseline cTn (xULN) | 12 | 0.14-190 | 0.1-8.2 | | | | |
| 6h cTn (xULN) | 4 | 13.2-142 | 4.25-11 | | | | |
| Peak cTn (xULN) 20 5.1-1703 2.8-447 | | | | | | | |
| Abbreviations: xULN= times | s upper limit normal | | | | | | |

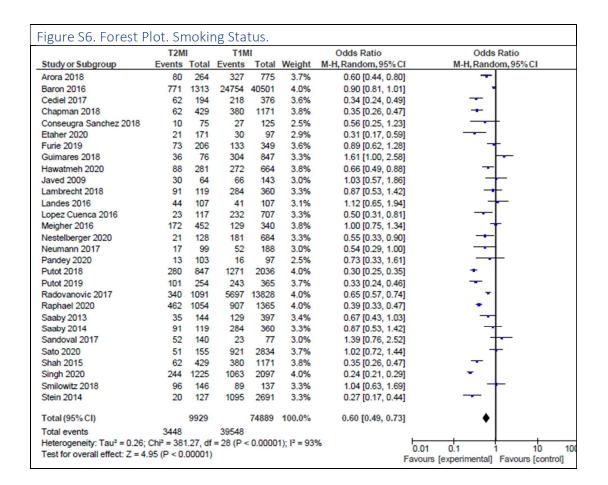


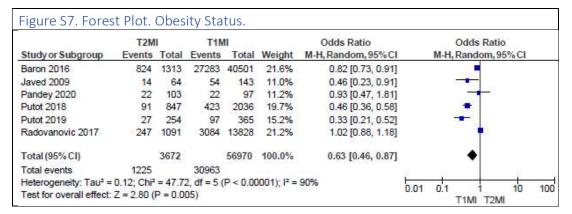


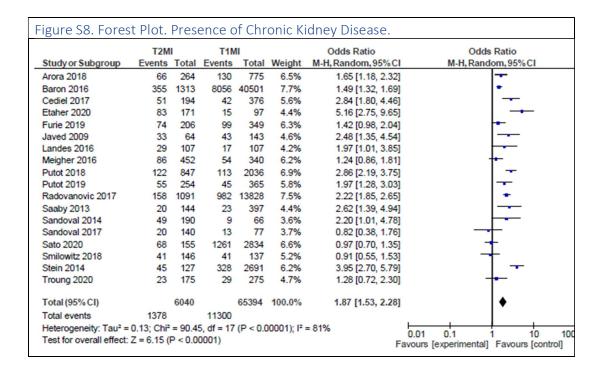


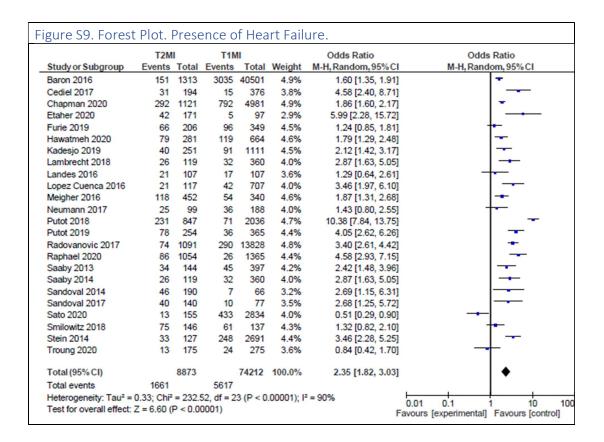
| | T2M | II | T1N | 11 | | Odds Ratio | Odds Ratio |
|-----------------------------|------------------------|-----------|---------------|---------|-----------------|---------------------|---------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H, Random, 95% CI |
| Arora 2018 | 225 | 264 | 642 | 775 | 3.2% | 1.20 [0.81, 1.76] | + |
| Baron 2016 | 962 | 1313 | 26334 | 40501 | 3.7% | 1.47 [1.30, 1.67] | - |
| Cediel 2017 | 153 | 194 | 270 | 376 | 3.1% | 1.47 [0.97, 2.21] | - |
| Chapman 2018 | 254 | 429 | 533 | 1171 | 3.6% | 1.74 [1.39, 2.17] | + |
| Conseugra Sanchez 2018 | 54 | 75 | 91 | 125 | 2.5% | 0.96 [0.51, 1.82] | + |
| Etaher 2020 | 128 | 171 | 56 | 97 | 2.8% | 2.18 [1.28, 3.71] | |
| Furie 2019 | 159 | 206 | 265 | 349 | 3.1% | 1.07 [0.71, 1.61] | + |
| Guimares 2018 | 60 | 76 | 688 | 847 | 2.6% | 0.87 [0.49, 1.54] | + |
| Hawatmeh 2020 | 242 | 281 | 583 | 664 | 3.1% | 0.86 [0.57, 1.30] | + |
| Higuchi 2019 | 311 | 491 | 7064 | 12023 | 3.6% | 1.21 [1.01, 1.46] | - |
| Javed 2009 | 53 | 64 | 126 | 143 | 2.0% | 0.65 [0.29, 1.48] | + |
| Lambrecht 2018 | 66 | 119 | 193 | 360 | 3.1% | 1.08 [0.71, 1.63] | + |
| Landes 2016 | 87 | 107 | 82 | 107 | 2.4% | 1.33 [0.68, 2.57] | +- |
| Lopez Cuenca 2016 | 103 | 117 | 522 | 707 | 2.6% | 2.61 [1.46, 4.67] | |
| Meigher 2016 | 289 | 452 | 224 | 340 | 3.4% | 0.92 [0.68, 1.23] | + |
| Nestelberger 2020 | 92 | 128 | 521 | 684 | 3.1% | 0.80 [0.52, 1.22] | -+ |
| Neumann 2017 | 77 | 99 | 154 | 188 | 2.6% | 0.77 [0.42, 1.41] | |
| Paiva 2015 | 192 | 236 | 580 | 764 | 3.2% | 1.38 [0.96, 2.00] | - |
| Pandey 2020 | 68 | 103 | 68 | 97 | 2.6% | 0.83 [0.46, 1.50] | |
| Putot 2018 | 683 | 847 | 1140 | 2036 | 3.6% | 3.27 [2.70, 3.96] | + |
| Putot 2019 | 211 | 254 | 279 | 365 | 3.1% | 1.51 [1.01, 2.27] | ├ |
| Radovanovic 2017 | 802 | 1091 | 8504 | 13828 | 3.7% | 1.74 [1.51, 2.00] | |
| Raphael 2020 | 716 | 1054 | 966 | 1365 | 3.7% | 0.87 [0.74, 1.04] | + |
| Saaby 2013 | 81 | 144 | 215 | 397 | 3.2% | 1.09 [0.74, 1.60] | + |
| Saaby 2014 | 66 | 119 | 193 | 360 | 3.1% | 1.08 [0.71, 1.63] | + |
| Sandoval 2014 | 125 | 190 | 49 | 66 | 2.5% | 0.67 [0.36, 1.25] | |
| Sandoval 2017 | 104 | 140 | 62 | 77 | 2.4% | 0.70 [0.35, 1.38] | |
| Sato 2020 | 103 | 155 | 1885 | 2834 | 3.3% | 1.00 [0.71, 1.40] | + |
| Shah 2015 | 254 | 429 | 533 | 1171 | 3.6% | 1.74 [1.39, 2.17] | - |
| Singh 2020 | 419 | 1225 | 970 | 2097 | 3.7% | 0.60 [0.52, 0.70] | * |
| Smilowitz 2018 | 128 | 146 | 118 | 137 | 2.3% | 1.15 [0.57, 2.29] | + |
| Stein 2014 | 108 | 127 | 1631 | 2691 | 2.9% | 3.69 [2.25, 6.05] | |
| Troung 2020 | 161 | 175 | 241 | 275 | 2.4% | 1.62 [0.84, 3.12] | - |
| Total (95% CI) | | 11021 | | 88017 | 100.0% | 1.22 [1.03, 1.45] | * |
| Total events | 7536 | | 55782 | | | | |
| Heterogeneity: Tau2 = 0.20; | Chi ² = 315 | .20, df = | 32 (P < | 0.00001 |); $I^2 = 90\%$ | 6 | 0.01 0.1 1 10 |

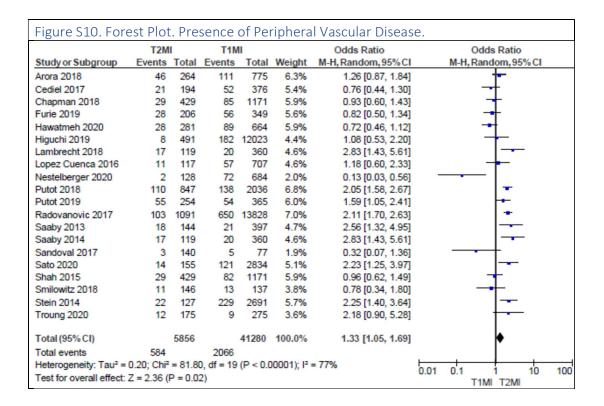
| | T2M | I | T1MI | | | Odds Ratio | Odds Ratio | |
|---|---------------|---------|---------|---------|-------------|---------------------|------------|------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | | M-H, Random, 95% |
| Arora 2018 | 131 | 264 | 441 | 775 | 3.4% | 0.75 [0.56, 0.99] | | - |
| Baron 2016 | 548 | 1313 | 14893 | 40501 | 3.5% | 1.23 [1.10, 1.38] | | - |
| Chapman 2018 | 177 | 429 | 539 | 1171 | 3.4% | 0.82 [0.66, 1.03] | | 4 |
| Conseugra Sanchez 2018 | 38 | 75 | 66 | 125 | 2.9% | 0.92 [0.52, 1.63] | | + |
| Etaher 2020 | 89 | 171 | 48 | 97 | 3.1% | 1.11 [0.67, 1.82] | | + |
| Furie 2019 | 121 | 206 | 218 | 349 | 3.3% | 0.86 [0.60, 1.22] | | + |
| Guimares 2018 | 58 | 76 | 625 | 847 | 3.0% | 1.14 [0.66, 1.98] | | + |
| Hawatmeh 2020 | 205 | 281 | 505 | 664 | 3.3% | 0.85 [0.62, 1.17] | | + |
| Higuchi 2019 | 174 | 491 | 5044 | 12023 | 3.5% | 0.76 [0.63, 0.92] | | + |
| Javed 2009 | 34 | 64 | 113 | 143 | 2.8% | 0.30 [0.16, 0.57] | | |
| Lambrecht 2018 | 48 | 119 | 137 | 360 | 3.2% | 1.10 [0.72, 1.68] | | + |
| Landes 2016 | 82 | 107 | 69 | 107 | 2.9% | 1.81 [0.99, 3.28] | | <u> </u> |
| Lopez Cuenca 2016 | 89 | 117 | 530 | 707 | 3.1% | 1.06 [0.67, 1.68] | | + |
| Meigher 2016 | 194 | 452 | 180 | 340 | 3.4% | 0.67 [0.50, 0.89] | | |
| Nestelberger 2020 | 46 | 128 | 440 | 684 | 3.2% | 0.31 [0.21, 0.46] | | |
| Neumann 2017 | 40 | 99 | 108 | 188 | 3.1% | 0.50 [0.31, 0.82] | | |
| Paiva 2015 | 125 | 236 | 442 | 764 | 3.4% | 0.82 [0.61, 1.10] | | → |
| Pandey 2020 | 38 | 103 | 51 | 97 | 3.0% | 0.53 [0.30, 0.93] | | → |
| Putot 2018 | 419 | 847 | 919 | 2036 | 3.5% | 1.19 [1.01, 1.40] | | - |
| Putot 2019 | 169 | 254 | 259 | 365 | 3.3% | 0.81 [0.58, 1.15] | | -\ |
| Radovanovic 2017 | 631 | 1091 | 8076 | 13828 | 3.5% | 0.98 [0.86, 1.11] | | + |
| Raphael 2020 | 359 | 1054 | 790 | 1365 | 3.5% | 0.38 [0.32, 0.44] | | - |
| Saaby 2013 | 60 | 144 | 158 | 397 | 3.2% | 1.08 [0.73, 1.59] | | + |
| Saaby 2014 | 48 | 119 | 137 | 360 | 3.2% | 1.10 [0.72, 1.68] | | + |
| Sandoval 2014 | 63 | 190 | 36 | 66 | 2.9% | 0.41 [0.23, 0.73] | | |
| Sandoval 2017 | 61 | 140 | 50 | 77 | 2.9% | 0.42 [0.23, 0.74] | | |
| Sato 2020 | 95 | 155 | 1435 | 2834 | 3.3% | 1.54 [1.11, 2.15] | | - |
| Shah 2015 | 117 | 429 | 539 | 1171 | 3.4% | 0.44 [0.35, 0.56] | | + |
| Singh 2020 | 172 | 1225 | 1229 | 2097 | 3.5% | 0.12 [0.10, 0.14] | | - |
| Smilowitz 2018 | 102 | 146 | 98 | 137 | 3.0% | 0.92 [0.55, 1.54] | | + |
| Stein 2014 | 93 | 127 | 1924 | 2691 | 3.2% | 1.09 [0.73, 1.63] | | + |
| Total (95% CI) | | 10652 | | 87366 | 100.0% | 0.74 [0.58, 0.94] | | • |
| Total events | 4626 | | 40099 | | | • | | |
| Heterogeneity: Tau ² = 0.42; | $Chi^2 = 703$ | 94 df : | 30 (P < | 0.00001 |)· I² = 96% | | 0.01 | 0.1 1 1 |

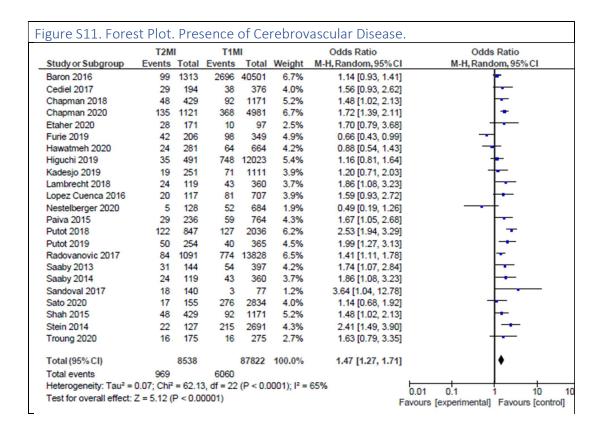




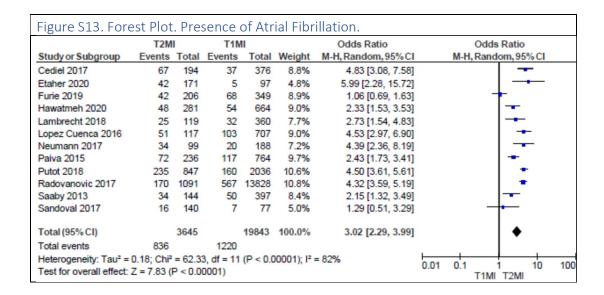


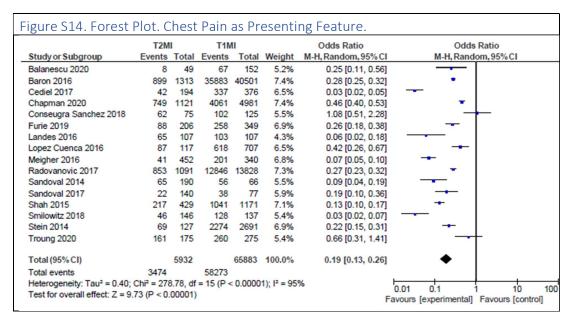


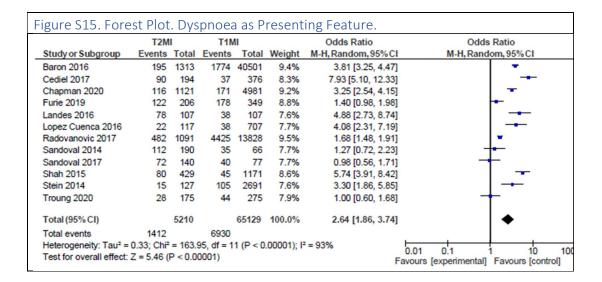


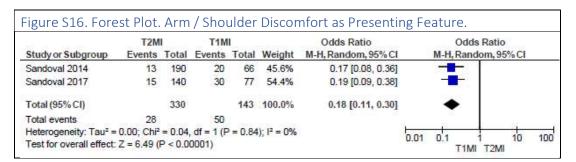


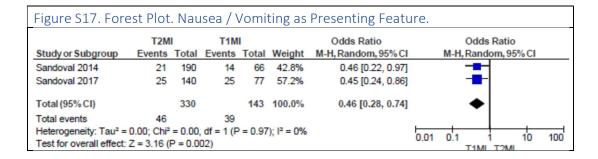
| | T2M | 1 | T1M | l . | | Odds Ratio | Odds Ratio | | |
|-------------------|--------|-------|--------|-------|--------|----------------------|------------|-------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H | I, Random, 95% CI | |
| Javed 2009 | 17 | 64 | 2 | 143 | 46.0% | 25.50 [5.68, 114.50] | | - | |
| Sandoval 2017 | 29 | 140 | 6 | 77 | 54.0% | 3.09 [1.22, 7.82] | | - | |
| Total (95% CI) | | 204 | | 220 | 100.0% | 8.15 [1.03, 64.46] | | - | |
| Total events | 46 | | 8 | | | | | | |

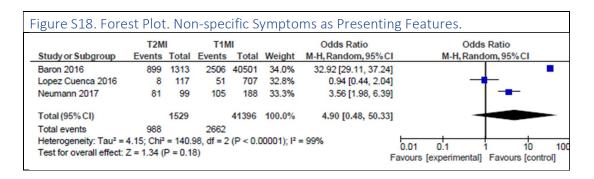


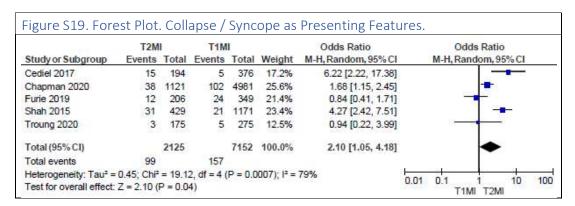


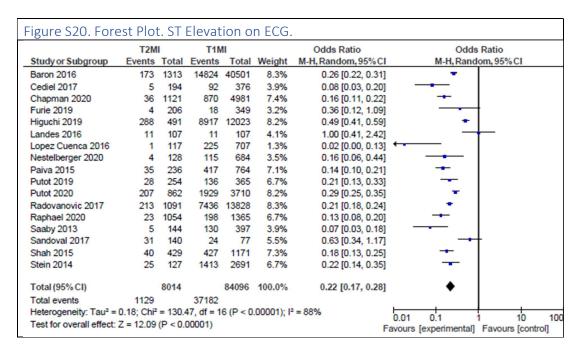


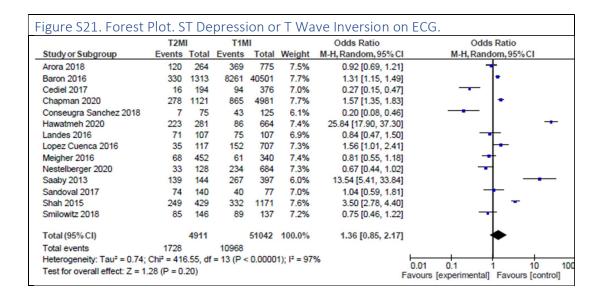


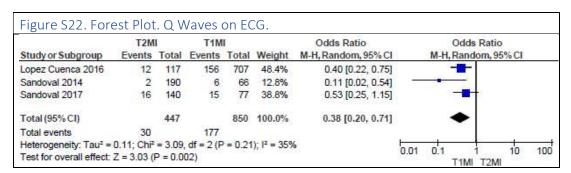


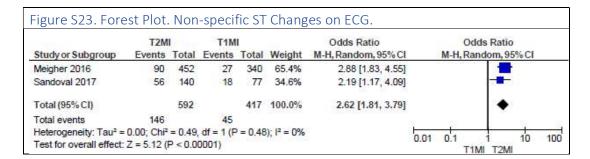


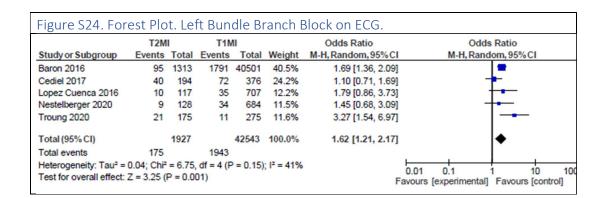


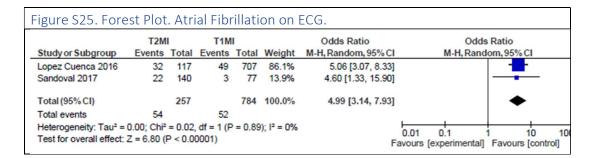


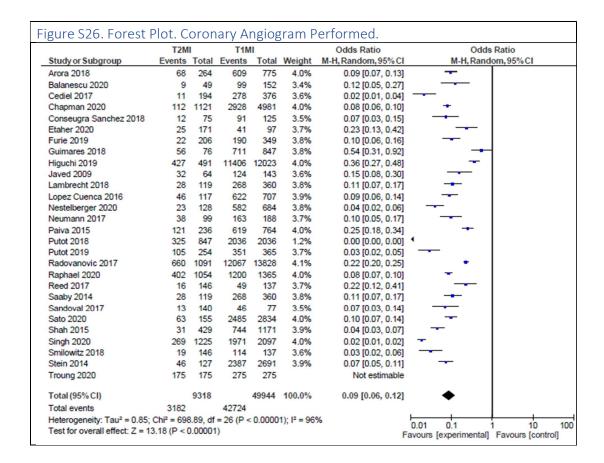


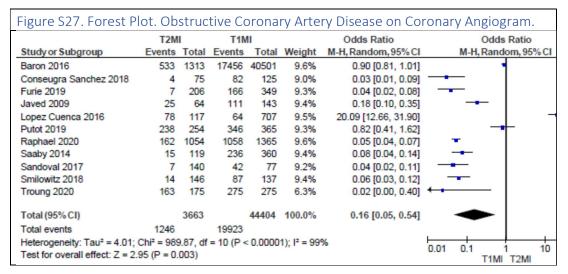


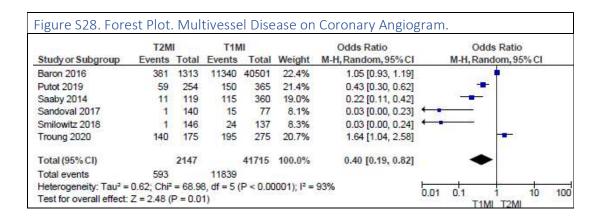


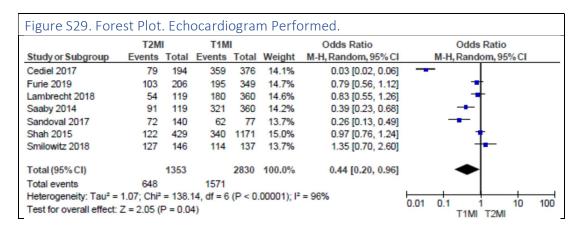


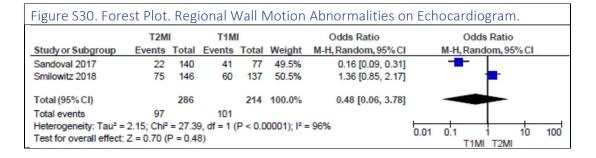






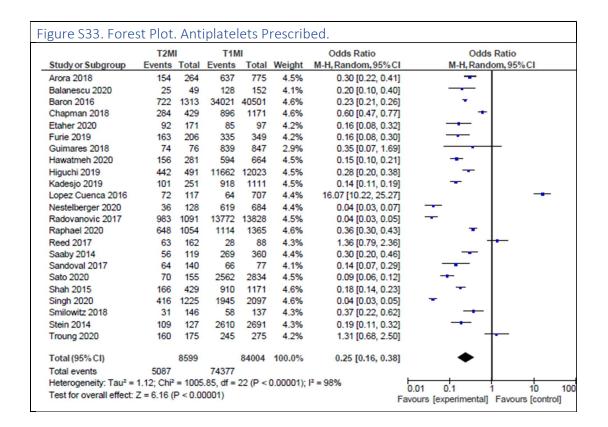


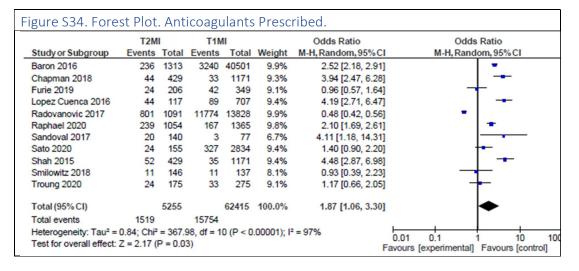


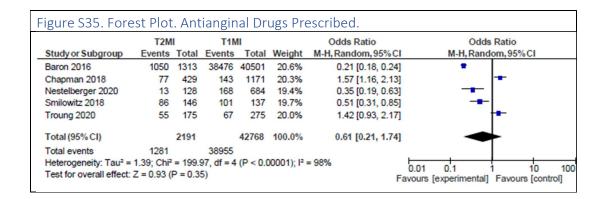


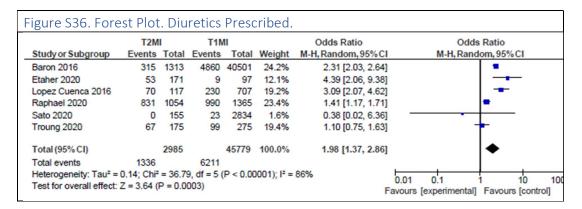
| | T2M | 1 | T1N | 11 | | Odds Ratio | Odds Ratio |
|-------------------|--------|-------|--------|-------|--------|---------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H, Random, 95% CI |
| Arora 2018 | 165 | 264 | 645 | 775 | 4.7% | 0.34 [0.25, 0.46] | - |
| Balanescu 2020 | 30 | 49 | 127 | 152 | 3.9% | 0.31 [0.15, 0.64] | |
| Baron 2016 | 1123 | 1313 | 36410 | 40501 | 4.8% | 0.66 [0.57, 0.78] | - |
| Chapman 2018 | 126 | 429 | 651 | 1171 | 4.7% | 0.33 [0.26, 0.42] | - |
| Etaher 2020 | 83 | 171 | 68 | 97 | 4.3% | 0.40 [0.24, 0.68] | |
| Furie 2019 | 141 | 206 | 247 | 349 | 4.6% | 0.90 [0.62, 1.30] | + |
| Hawatmeh 2020 | 165 | 281 | 551 | 664 | 4.7% | 0.29 [0.21, 0.40] | - |
| Higuchi 2019 | 236 | 491 | 6786 | 12023 | 4.8% | 0.71 [0.60, 0.86] | * |
| Kadesjo 2019 | 169 | 251 | 946 | 1111 | 4.7% | 0.36 [0.26, 0.49] | - |
| Lopez Cuenca 2016 | 86 | 117 | 614 | 707 | 4.4% | 0.42 [0.26, 0.67] | |
| Nestelberger 2020 | 72 | 128 | 548 | 684 | 4.5% | 0.32 [0.21, 0.47] | - |
| Radovanovic 2017 | 595 | 1091 | 7396 | 13828 | 4.8% | 1.04 [0.92, 1.18] | t |
| Raphael 2020 | 766 | 1054 | 1215 | 1365 | 4.8% | 0.33 [0.26, 0.41] | * |
| Reed 2017 | 75 | 162 | 41 | 88 | 4.3% | 0.99 [0.59, 1.66] | + |
| Saaby 2014 | 44 | 119 | 208 | 360 | 4.5% | 0.43 [0.28, 0.66] | |
| Sandoval 2017 | 81 | 140 | 53 | 77 | 4.2% | 0.62 [0.35, 1.12] | |
| Sato 2020 | 53 | 155 | 1838 | 2834 | 4.6% | 0.28 [0.20, 0.40] | - |
| Shah 2015 | 124 | 429 | 660 | 1171 | 4.7% | 0.31 [0.25, 0.40] | + |
| Singh 2020 | 513 | 1225 | 1878 | 2097 | 4.8% | 0.08 [0.07, 0.10] | + |
| Smilowitz 2018 | 70 | 146 | 78 | 137 | 4.4% | 0.70 [0.44, 1.11] | -1 |
| Stein 2014 | 91 | 127 | 2234 | 2691 | 4.5% | 0.52 [0.35, 0.77] | |
| Troung 2020 | 159 | 175 | 237 | 275 | 4.1% | 1.59 [0.86, 2.96] | |
| Total (95% CI) | | 8523 | | 83157 | 100.0% | 0.45 [0.33, 0.63] | ◆ |
| Total events | 4967 | | 63431 | | | | ~ |

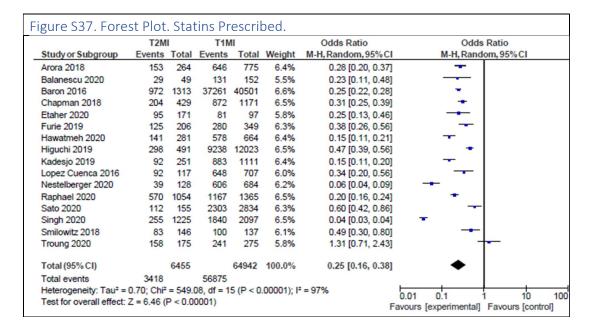
| | T2M | I | T1N | 11 | | Odds Ratio | Odds Ratio |
|-----------------------------------|------------------------|---------|------------|-----------|------------|---------------------|---------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H, Random, 95% CI |
| Baron 2016 | 945 | 1313 | 30781 | 40501 | 6.0% | 0.81 [0.72, 0.92] | - |
| Chapman 2018 | 156 | 429 | 724 | 1171 | 5.9% | 0.35 [0.28, 0.44] | + |
| Etaher 2020 | 57 | 171 | 49 | 97 | 5.0% | 0.49 [0.29, 0.82] | |
| Hawatmeh 2020 | 99 | 281 | 325 | 664 | 5.7% | 0.57 [0.43, 0.76] | - |
| Higuchi 2019 | 254 | 491 | 7531 | 12023 | 6.0% | 0.64 [0.53, 0.77] | - |
| Kadesjo 2019 | 118 | 251 | 725 | 1111 | 5.7% | 0.47 [0.36, 0.62] | - |
| Lopez Cuenca 2016 | 53 | 117 | 438 | 707 | 5.4% | 0.51 [0.34, 0.75] | - |
| Nestelberger 2020 | 70 | 128 | 546 | 684 | 5.4% | 0.31 [0.21, 0.45] | |
| Radovanovic 2017 | 566 | 1091 | 7448 | 13828 | 6.0% | 0.92 [0.82, 1.04] | 4 |
| Raphael 2020 | 571 | 1054 | 976 | 1365 | 6.0% | 0.47 [0.40, 0.56] | • |
| Saaby 2014 | 38 | 119 | 154 | 360 | 5.2% | 0.63 [0.40, 0.97] | |
| Sandoval 2017 | 43 | 140 | 39 | 77 | 4.7% | 0.43 [0.24, 0.77] | |
| Sato 2020 | 93 | 155 | 2103 | 2834 | 5.6% | 0.52 [0.37, 0.73] | - |
| Shah 2015 | 135 | 429 | 735 | 1171 | 5.8% | 0.27 [0.22, 0.34] | ÷ |
| Singh 2020 | 271 | 1225 | 1269 | 2097 | 6.0% | 0.19 [0.16, 0.22] | • |
| Smilowitz 2018 | 62 | 146 | 63 | 137 | 5.1% | 0.87 [0.54, 1.39] | + |
| Stein 2014 | 88 | 127 | 2126 | 2691 | 5.4% | 0.60 [0.41, 0.88] | - |
| Troung 2020 | 147 | 175 | 221 | 275 | 5.0% | 1.28 [0.78, 2.12] | + |
| Total (95% CI) | | 7842 | | 81793 | 100.0% | 0.52 [0.40, 0.67] | • |
| Total events | 3766 | | 56253 | | | | |
| Heterogeneity: Tau ² = | 0.29; Chi ² | = 362.4 | 12, df = 1 | 7 (P < 0. | .00001); [| = 95% | 0.01 0.1 1 10 |

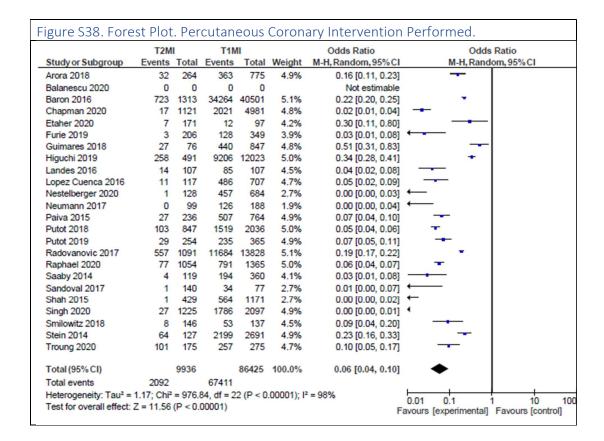


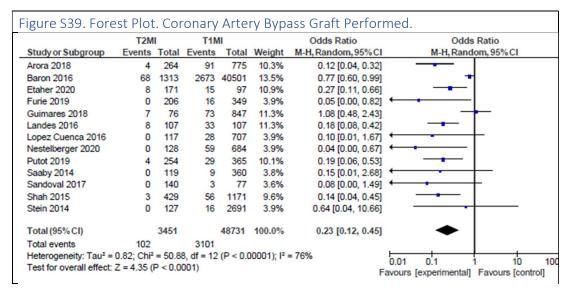




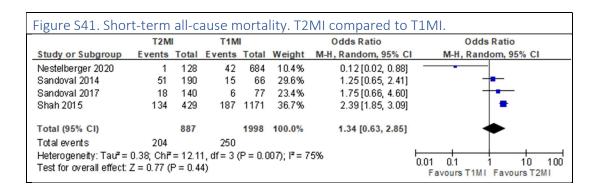


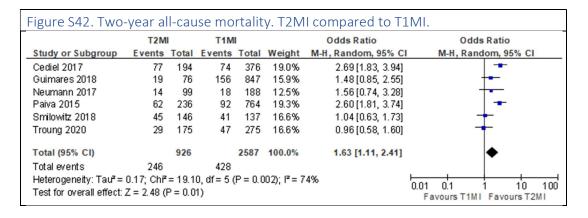


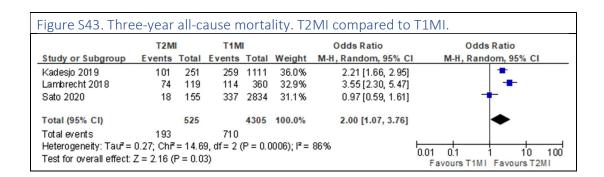


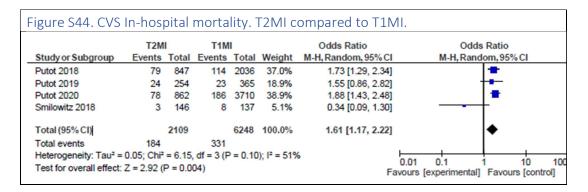


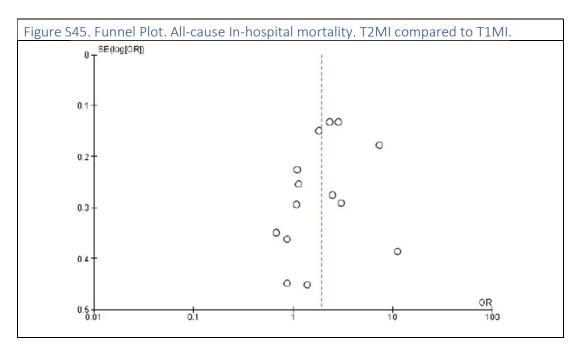
| | T2M | I | T1N | 11 | | Odds Ratio | Odds Ratio |
|-------------------|--------|-------|--------|-------|--------|---------------------|---------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H, Random, 95% Cl |
| Furie 2019 | 21 | 206 | 33 | 349 | 7.1% | 1.09 [0.61, 1.93] | + |
| Higuchi 2019 | 54 | 491 | 769 | 12023 | 8.2% | 1.81 [1.35, 2.42] | - |
| Javed 2009 | 9 | 64 | 15 | 143 | 5.7% | 1.40 [0.58, 3.38] | |
| Lopez Cuenca 2016 | 6 | 117 | 41 | 707 | 5.7% | 0.88 [0.36, 2.12] | |
| Meigher 2016 | 54 | 452 | 37 | 340 | 7.6% | 1.11 [0.71, 1.73] | + |
| Paiva 2015 | 23 | 236 | 66 | 764 | 7.4% | 1.14 [0.69, 1.88] | + |
| Putot 2018 | 133 | 847 | 125 | 2036 | 8.3% | 2.85 [2.20, 3.69] | + |
| Putot 2019 | 38 | 254 | 24 | 365 | 7.2% | 2.50 [1.46, 4.28] | |
| Putot 2020 | 95 | 862 | 186 | 3710 | 8.3% | 2.35 [1.81, 3.04] | - |
| Saaby 2014 | 29 | 119 | 10 | 360 | 6.3% | 11.28 [5.30, 24.00] | - |
| Singh 2020 | 160 | 1225 | 42 | 2097 | 8.0% | 7.35 [5.19, 10.41] | _ |
| Smilowitz 2018 | 17 | 146 | 18 | 137 | 6.5% | 0.87 [0.43, 1.77] | + |
| Stein 2014 | 15 | 127 | 113 | 2691 | 7.1% | 3.06 [1.73, 5.41] | |
| Troung 2020 | 13 | 175 | 29 | 275 | 6.6% | 0.68 [0.34, 1.35] | + |
| Total (95% CI) | | 5321 | | 25997 | 100.0% | 1.94 [1.35, 2.79] | • |
| Total events | 667 | | 1508 | | | | |

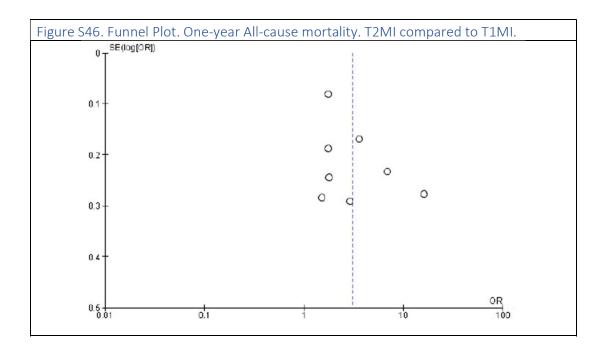












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