SUPPLEMENTARY FILE

Tables

| Outcome measurements | Specification examples [description]* | | | | |
|--|---|--|--|--|--|
| pharmacist-reported outcome measurements | Medication Event Monitoring System (MEMS) [Use | | | | |
| | of electronic devices with microchips to record | | | | |
| | medication intake] | | | | |
| | Pharmacy records [Counting returned pills and | | | | |
| | tracking refill patterns] | | | | |
| | Prescription records registers [Tracking all | | | | |
| | dispensed drugs and tracking refill patterns] | | | | |
| Patient-reported outcome measurements | Morisky Medication Adherence Scale (MMAS-8)[1] | | | | |
| | Medication Adherence Report Scale (MARS)[2] | | | | |
| | Simplified Medication Adherence Questionnaire | | | | |
| | (SMAQ)[3] | | | | |
| | Brief Medication Questionnaire (BMQ)[4] | | | | |
| | Other | | | | |
| Biochemical or laboratory outcome | INR, Platelet activity | | | | |
| measurements | | | | | |

• * This table does not include all existing measurements.

Table S1: Outcome measurements





| Cassar, 2006 [8] | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 0 | 1 | 2 | 1 | 2 | 18/2 4 | Μ |
|-----------------------|---|---|---|---|---|---|---|---|-----|-----|-----|-----|-----------|---|
| Ferreira, 2010 [9] | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | N/A | N/A | N/A | N/A | 8/16 | Р |
| Halle, 2017 [10] | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 0 | N/A | N/A | N/A | N/A | 12/1 6 | Μ |
| Hess, 2022 [11] | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 0 | N/A | N/A | N/A | N/A | 10/1 6 | Μ |
| Kremers, 2023 [12] | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | N/A | N/A | N/A | N/A | 12/1 6 | Μ |
| Qvist, 2019 [13] | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 0 | N/A | N/A | N/A | N/A | 12/1 6 | Μ |
| Wawruch, 2021 [14] | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 0 | N/A | N/A | N/A | N/A | 13/1 6 | Μ |

N/A = not applicable; P = Poor; M = Moderate; G = good

Table S3. Risk-of-bias of bias summary for the non-randomised controlled trials following the MINORs-score

Figures

| Search | Actions | Details | Query | Results | Time |
|--------|---------|---------|--|---------|----------|
| #4 | | • | Search: #1 AND #2 AND #3 Sort by: Most Recent | 128 | 08:50:30 |
| #3 | | • | Search: "Treatment Adherence and Compliance"[Mesh] OR "Medication Adherence"[Mesh]] OR ''compliance" [tiab] OR ''adherence" [tiab] OR "refus*"[tiab] OR "nonadherence"[tiab] OR "noncompliance"[tiab] Sort by: Most Recent | 542,177 | 08:50:03 |
| #2 | | • | Search: "Platelet Aggregation Inhibitors" [Mesh] OR "Platelet Aggregation Inhibitors" [Pharmacological Action] OR "Dual Anti- Platelet Therapy" [Mesh] OR "Platelet aggregation inhibitor*" [tiab] OR "antiplatelet therap*" [tiab] OR "anti platelet therap*" [tiab] OR OR "platelet inhibitor*" [tiab] OR "anti platelet therap*" [tiab] OR "acetylsalicylic acid" [tiab] OR "aspirin" [tiab] OR "paracetamol" [tiab] OR "clopidogrel" [tiab] OR OR "Anticoagulants" [Mesh] OR "Anticoagulants" [Pharmacological Action] OR "Indirect thrombin inhibitor*" [tiab] OR "anti coagulant" [tiab] OR "fibrinolytic Agents" [Mesh] OR "fibrinolytic agent*" [tiab] OR "fibrinolytic drug*" [tiab] OR "Thrombolytic drug*" [tiab] OR "Antitombotic agent*" [tiab] OR "antithrombotic drug*" [tiab] OR "fibrinolytic drug*" [tiab] OR "Anticoagulants" [tiab] OR "fibrinolytic drug*" [tiab] OR "Anticoagulant*'' [tiab] OR "Factor Xa inhibitor*'' [tiab] OR "Rivaroxaban'' [tiab] Sort by: Most Recent | 468,945 | 08:49:49 |
| #1 | | > | Search: ("Peripheral Arterial Disease"[Mesh] OR "peripheral arterial disease*"[tiab] OR "peripheral artery disease*"[tiab] OR "lower extremity arterial disease*"[tiab] OR "lower extremity artery disease*"[tiab] OR "Chronic Limb-Threatening Ischemia*"[tiab] OR "intermittent claudication*"[tiab] OR "Peripheral Arterial Vascular Disease*"[tiab] OR "peripheral artery occlusive disease*"[tiab] OR "peripheral arterial occlusive disease*"[tiab]) AND ("Peripheral Arterial Disease"[Mesh] OR "peripheral arterial disease*"[tiab] OR "peripheral artery disease*"[tiab] OR "lower extremity arterial disease*"[tiab] OR "lower extremity artery disease*"[tiab] OR "Chronic Limb-Threatening Ischemia*"[tiab] OR "intermittent claudication*"[tiab] OR "Peripheral Arterial Vascular Disease*"[tiab] OR "peripheral artery occlusive disease*"[tiab] OR "intermittent claudication*"[tiab] OR "Peripheral Arterial Vascular Disease*"[tiab] OR "peripheral artery occlusive disease*"[tiab] OR "peripheral arterial occlusive disease*"[tiab] OR "peripheral arterial occlusive disease*"[tiab] OR "peripheral | 32,848 | 08:44:08 |

Figure S1. Search PubMed/MEDLINE

| B Save this search マ | are saved searches ? Search help |
|--|--|
| + | Print search history |
| #1 #1 ("peripheral arterial disease" OR "peripheral artery disease " OR "lower extremity arterial disease " OR "lower extremity arterial disease" OR "lower extremity artery disease" OR "Chronic Limb-Threatening Ischemia" OR "Intermittent claudication" OR "Peripheral Arterial Vascular Disease " OR "peripheral artery occlusive disease" OR "peripheral arterial occlusive disease", the second of the second | MeSH V Limits 7469 |
| #2 (Platelet Aggregation Inhibitor' OR "Platelet aggregation inhibitor" OR "antiplatelet therapy" OR "antiplatelet therapy" OR "anti-platelet therapy" OR "antiplatelet therapy" OR "anti | atelet Limits 40881 ibitor' OR ent' OR |
| - + #3 ("compliance" OR "adherence" OR "nonadherence" OR "noncompliance"):ti,ab,kw | Limits 89316 |
| - + #4 #1 AND #2 AND #3 | Limits 64 |
| × Clear all | 🗆 Highlight orphan lines |

Figure S2. Search in Cochrane



Figure S3. Search in Embase



Figure S4. The flowchart of the selection process

- 1. Morisky, D.E., et al., *Predictive validity of a medication adherence measure in an outpatient setting*. J Clin Hypertens (Greenwich), 2008. **10**(5): p. 348-54.
- 2. Baroletti, S. and H. Dell'Orfano, *Medication adherence in cardiovascular disease*. Circulation, 2010. **121**(12): p. 1455-8.
- 3. Knobel, H., et al., Validation of a simplified medication adherence questionnaire in a large cohort of HIV-infected patients: the GEEMA Study. Aids, 2002. **16**(4): p. 605-13.
- 4. Svarstad, B.L., et al., *The Brief Medication Questionnaire: a tool for screening patient adherence and barriers to adherence.* Patient Educ Couns, 1999. **37**(2): p. 113-24.
- 5. Haile, S.T., et al., *Effects of a person-centred, nurse-led follow-up programme on adherence to prescribed medication among patients surgically treated for intermittent claudication: randomized clinical trial.* Br J Surg, 2022. **109**(9): p. 846-856.

- Jivegård, L., et al., Effects of three months of low molecular weight heparin (dalteparin) treatment after bypass surgery for lower limb ischemia--a randomised placebo-controlled double blind multicentre trial. European journal of vascular and endovascular surgery, 2005.
 29(2): p. 190-198.
- 7. Weissler, E.H., et al., *Understanding Study Drug Discontinuation Through EUCLID*. Frontiers in Cardiovascular Medicine, 2022. **9**.
- 8. Cassar, K., et al., *Variability in Responsiveness to Clopidogrel in Patients with Intermittent Claudication.* European journal of vascular and endovascular surgery, 2006. **32**(1): p. 71-75.
- 9. Ferreira-González, I., et al., *Background, incidence, and predictors of antiplatelet therapy discontinuation during the first year after drug-eluting stent implantation.* Circulation, 2010. **122**(10): p. 1017-25.
- 10. Halle, T.R., et al., *Surgical Intervention for Peripheral Artery Disease Does Not Improve Patient Compliance with Recommended Medical Therapy.* Ann Vasc Surg, 2018. **46**: p. 104-111.
- 11. Hess, C.N., et al., *Sex-Based Differences in Outcomes Following Peripheral Artery Revascularization: Insights From VOYAGER PAD.* J Am Heart Assoc, 2022. **11**(12): p. e024655.
- 12. Kremers, B.M.M., et al., *Inadequate response to antiplatelet therapy in patients with peripheral artery disease: a prospective cohort study.* Thromb J, 2023. **21**(1): p. 5.
- 13. Qvist, I., et al., Adherence to Prescribed Drugs Among 65-74 Year Old Men Diagnosed with Abdominal Aortic Aneurysm or Peripheral Arterial Disease in a Screening Trial: A VIVA Substudy. Eur J Vasc Endovasc Surg, 2019. **57**(3): p. 442-450.
- 14. Wawruch, M., et al., Adherence to Antiplatelet Medications among Persistent and Non-Persistent Older Patients with Peripheral Arterial Disease. Biomedicines, 2021. **9**(12).