**APPENDIX A:** Search terms used in each database

**PubMed**

("Anemia"[Mesh] OR anemi[tiab] OR anemia[tiab] OR anemia'[tiab] OR anemia's[tiab] OR anemiaceae[tiab] OR anemiae[tiab] OR anemiaidawomen[tiab] OR anemiain[tiab] OR anemiainducing[tiab] OR anemiais[tiab] OR anemiaith[tiab] OR anemadus[tiab] OR anemae[tiab] OR anemai[tiab] OR anemaia[tiab] OR anemaias[tiab] OR aneman[tiab] OR anemana[tiab] OR anemaran[tiab] OR anemic[tiab] OR anemic[tiab] OR anemias[tiab] OR anemia[tiab] OR anemiatrans[tiab] OR anemic'[tiab] OR anemica[tiab] OR anemically[tiab] OR anemicos[tiab] OR anemics[tiab] OR anemie[tiab] OR anemies[tiab] OR anemization[tiab] OR anemized[tiab] OR anaemia[tiab] OR anaemias[tiab] OR anaemic[tiab] OR anaemically[tiab] OR "Hemoglobins"[Mesh] OR hemoglobin[tiab] OR hemoglobins[tiab] OR haemoglobin[tiab] OR haemoglobins[tiab] OR "Hematocrit"[Mesh] or hematocrit[tiab] OR haematocrit[tiab] OR hematocrits[tiab] OR haematocrits[tiab] OR hematocrate[tiab] OR hematocret[tiab] OR hematocrict[tiab] OR hematocrirt[tiab]) NOT ("Anemia, Sickle Cell"[Mesh] OR sickle[tiab])) AND ("Preoperative Period"[Mesh] OR "Preoperative Care"[Mesh] OR preoperative [tiab] OR pre operative[tiab] OR presurgical[tiab] OR pre surgical[tiab] OR presurgery[tiab] OR pre surgery[tiab] OR "Perioperative Period"[Mesh] OR "Perioperative Care"[Mesh] OR perioperative[tiab] OR peri operative[tiab] OR perisurgical[tiab] OR peri surgical[tiab] OR perisurgery[tiab] OR peri surgery[tiab] OR "Postoperative Period"[Mesh] OR "Postoperative Care"[Mesh] OR postoperative[tiab] OR post operative[tiab] OR postop[tiab] OR post op[tiab] OR postsurgical[tiab] OR post surgical[tiab] OR postsurgery[tiab] OR post surgery[tiab]) AND ("Iron"[Mesh] OR "Iron Compounds"[Mesh] OR iron[tiab] OR iron infusion[tiab] OR "Hematinics"[Mesh] OR hematinics[tiab] OR antianemic agent[tiab] OR antianemic drug\*[tiab] OR antianemic factor\*[tiab] OR antianemic therapy[tiab] OR antianemic therapies[tiab]) AND ("Treatment Outcome"[Mesh] OR "Outcome Assessment (Health Care)"[Mesh] OR "Outcome and Process Assessment (Health Care)"[Mesh] OR "Patient Outcome Assessment"[Mesh] OR outcome[tiab] OR outcomes[tiab])

**EMBASE**

('anemia'/exp OR 'anemia' OR 'anaemia' OR 'anemically' OR 'anaemically' OR 'hemoglobin'/exp OR 'hemoglobin' OR 'haemoglobin' OR 'hematocrit'/exp OR 'hematocrit' NOT ('sickle cell anemia'/exp OR 'sickle cell anemia' OR 'sickle')) AND ('preoperative period'/exp OR 'preoperative period' OR 'preoperative care'/exp OR 'preoperative care' OR 'presurgical' OR 'pre surgical' OR 'presurgery' OR 'pre surgery' OR 'preoperative' OR 'pre operative' OR 'perioperative period'/exp OR 'perioperative period' OR 'perioperative' OR 'peri operative' OR 'perisurgical' OR 'peri surgical' OR 'perisurgery' OR 'peri surgery' OR 'postoperative period'/exp OR 'postoperative period' OR 'postoperative care'/exp OR 'postoperative care' OR 'postoperative' OR 'post operative' OR 'postsurgical' OR 'post surgical' OR 'postsurgery' OR 'post surgery') AND

('antianemic agent'/exp OR 'antianemic agent' OR 'hematinics' OR 'antianemic drug' OR 'antianemic drugs' OR 'antianemic factor' OR 'antianemic factors' OR 'antianemic therapy' OR 'antianemic therapies' OR 'iron'/exp OR 'iron' OR 'iron derivative'/exp OR 'iron derivative') AND ('treatment outcome'/exp OR 'treatment outcome' OR 'outcome assessment'/exp OR 'outcome assessment' OR 'patient-reported outcome'/exp OR 'patient-reported outcome' OR 'outcome'/exp OR 'outcome' OR 'outcomes') AND [embase]/lim NOT ([embase]/lim AND [medline]/lim)

**Web of Science**

TS=(anemia OR anaemia OR anemically OR anaemically OR hemoglobin OR haemoglobin OR hematocrit NOT (sickle cell anemia/exp OR sickle cell anemia OR sickle)) AND TS=(preoperative period OR preoperative care OR presurgical OR "pre surgical" OR presurgery OR "pre surgery" OR preoperative OR "pre operative" OR perioperative period OR perioperative OR "peri operative" OR perisurgical OR "peri surgical" OR perisurgery OR "peri surgery" OR postoperative period OR postoperative care OR postoperative OR "post operative" OR postsurgical OR "post surgical"l OR postsurgery OR "post surgery") AND TS=("antianemic agent" OR hematinics OR "antianemic drug" OR "antianemic drugs" OR "antianemic factor" OR "antianemic factors" OR "antianemic therapy" OR "antianemic therapies" OR iron) AND TS=(outcome OR outcomes)

**Cochrane**

Iron AND surgery

**CINAHL**

Iron AND (surgery OR surgical OR operation OR operative)