**Table S1.** Complete search strategy with search filters and number of studies recovered from PubMed-Medline, EMBASE,Scopus and Web of Sciences databases.

|  |  |
| --- | --- |
| ***PubMed-MEDLINE – Search filters*** | ***Records*** |
| **#1 Disease (Chagas disease):** (“Chagas disease”[TIAB] OR “American trypanosomiasis”[TIAB] OR “Trypanosoma cruzi”[TIAB]) | **10237** |
| **#2 Intervention (etiological treatment):** (“nitro compounds”[TIAB] OR “nitroimidazoles”[TIAB] OR “therapeutic uses”[TIAB] OR “nifurtimox”[TIAB] OR “benznidazole”[TIAB] OR “ravuconazole”[TIAB] OR “benznidazol”[TIAB] OR “radanil”[TIAB] OR “benzonidazol”[TIAB] OR “rochagan”[TIAB] OR “E1224”[TIAB] OR “posaconazole”[TIAB] OR “allopurinol”[TIAB] OR “itraconazole”[TIAB] OR “drug therapy”[TIAB] OR “trypanocidal agents”[TIAB] “antiprotozoal agents”[TIAB] OR “drugs, investigational”[MeSH Terms] OR “dose-response relationship, drug”[MeSH Terms] OR “drug administration schedule”[MeSH Terms] OR “triazoles”[TIAB] OR “benzodioxoles”[TIAB] OR “antiparasitic agents”[TIAB] OR “etiological treatment”[TIAB] OR “antitrypanosomal chemotherapy”[TIAB] OR “drug administration”[TIAB] OR “antitrypanosomal drugs”[TIAB] OR “trypanocidal drugs”[TIAB] OR “trypanocidal therapy”[TIAB]) | **582984** |
| **#3 Combined search: (**#1 AND #2) | **313** |
| **#4 Search limits (Species):** Humans | **313** |
| **#5 Search limits (Article types):** Clinical Trial | **12** |

\*Database search was concluded in August 20, 2021 at 13:28 p.m.

**Table S1 (*continuation*).** Complete search strategy with search filters and number of studies recovered from PubMed-Medline, EMBASE,Scopus and Web of Sciences databases.

|  |  |
| --- | --- |
| ***EMBASE – Search filters*** | ***Records*** |
| **#1 Disease (Chagas disease):** (‘Chagas disease’:de,ab,ti OR ‘American trypanosomiasis’:de,ab,ti OR ‘Trypanosoma cruzi’:de,ab,ti) | **28635** |
| **#2 Intervention (etiological treatment):** (‘nitro compounds’:de,ab,ti OR ‘nitroimidazoles’:de,ab,ti OR ‘therapeutic uses’:de,ab,ti OR ‘nifurtimox’:de,ab,ti OR ‘benznidazole’:de,ab,ti OR ‘ravuconazole’:de,ab,ti OR ‘benznidazol’:de,ab,ti OR ‘radanil’:de,ab,ti OR ‘benzonidazol’:de,ab,ti OR ‘rochagan’:de,ab,ti OR ‘E1224’:de,ab,ti OR ‘posaconazole’:de,ab,ti OR ‘allopurinol’:de,ab,ti OR ‘itraconazole’:de,ab,ti OR ‘drug therapy’:de,ab,ti OR ‘trypanocidal agents’:de,ab,ti OR ‘antiprotozoal agents’:de,ab,ti OR ‘drugs, investigational’:de,ab,ti OR ‘dose-response relationship, drug’:de,ab,ti OR ‘drug administration schedule’:de,ab,ti OR ‘triazoles’:de,ab,ti OR ‘benzodioxoles’:de,ab,ti OR ‘antiparasitic agents’:de,ab,ti OR ‘etiological treatment’:de,ab,ti OR ‘antitrypanosomal chemotherapy’:de,ab,ti OR ‘drug administration’:de,ab,ti OR ‘antitrypanosomal drugs’:de,ab,ti OR ‘trypanocidal drugs’:de,ab,ti OR ‘trypanocidal therapy’:de,ab,ti) | **2138154** |
| **#3 Combined search:** (#1 AND #2) | **4255** |
| **#4 Search limits (Sources):** embase | **1055** |
| **#5 Search limits (Study types):** human,major clinical study | **692** |
| **#6 Search limits(Publication types):** Article | **169** |

\*Database search was concluded in August 20, 2021 at 14:27 a.m.

**Table S1 (*continuation*).** Complete search strategy with search filters and number of studies recovered from PubMed-Medline, EMBASE,Scopus and Web of Sciences databases.

|  |  |
| --- | --- |
| **SCOPUS *– Search filters*** | ***Records*** |
| **#1 Disease (Chagas disease):** (TITLE-ABS-KEY(“Chagas disease”) OR TITLE-ABS-KEY(“American trypanosomiasis”) OR TITLE-ABS-KEY(“Trypanosoma cruzi”)) | **28565** |
| **#2 Intervention (etiological treatment):** (TITLE-ABS-KEY(“nitro compounds”) OR TITLE-ABS-KEY(“nitroimidazoles”) OR TITLE-ABS-KEY(“therapeutic uses”) OR TITLE-ABS-KEY(“nifurtimox”) OR TITLE-ABS-KEY(“benznidazole”) OR TITLE-ABS-KEY(“ravuconazole”) OR TITLE-ABS-KEY(“benznidazol”) OR TITLE-ABS-KEY(“radanil”) OR TITLE-ABS-KEY(“benzonidazol”) OR TITLE-ABS-KEY(“rochagan”) OR TITLE-ABS-KEY(“E1224”) OR TITLE-ABS-KEY(“posaconazole”) OR TITLE-ABS-KEY(“allopurinol”) OR TITLE-ABS-KEY(“itraconazole”) OR TITLE-ABS-KEY(“drug therapy”) OR TITLE-ABS-KEY(“trypanocidal agents”) OR TITLE-ABS-KEY(“antiprotozoal agents”) OR TITLE-ABS-KEY(“drugs, investigational”) OR TITLE-ABS-KEY(“drug administration schedule”) OR TITLE-ABS-KEY(“triazoles”) OR TITLE-ABS-KEY(“benzodioxoles”) OR TITLE-ABS-KEY(“antiparasitic agents”) OR TITLE-ABS-KEY(“etiological treatment”) OR TITLE-ABS-KEY(“antitrypanosomal chemotherapy”) OR TITLE-ABS-KEY(“drug administration”) OR TITLE-ABS-KEY(“antitrypanosomal drugs”) OR TITLE-ABS-KEY(“trypanocidal drugs”) OR TITLE-ABS-KEY(“trypanocidal therapy”)) | **1933331** |
| **#3 Study types:** (TITLE-ABS-KEY ("randomized controlled trial") OR TITLE-ABS-KEY ("clinical trial") OR TITLE-ABS-KEY ("randomized controlled trial") OR TITLE-ABS-KEY ("clinical study")) | **5006195** |
| **#4 Combined search:** #1 AND #2 AND #3 | **688** |
| **#5 Search limits (Document type):** Article | **459** |
| **#6 Search limits:** AND NOT INDEX (medline) | **459** |
| **#7 Search limits (Keyword):** Human | **383** |

Database search was concluded in August 20, 2021 at 14:38 p.m.

**Table S1 (*continuation*).** Complete search strategy with search filters and number of studies recovered from PubMed-Medline, EMBASE,Scopus and Web of Sciences databases.

|  |  |
| --- | --- |
| **WEB OF SCIENCE *– Search filters*** | ***Records*** |
| #1 Disease (Chagas disease): TS=Chagas disease OR TS=American trypanosomiasis OR TS=Trypanosoma cruzi OR TS=T. cruzi | **26727** |
| **#2 Intervention (etiological treatment):** TS=nitro compounds OR TS=nitroimidazoles OR TS=therapeutic uses OR TS=nifurtimox OR TS=benznidazole OR TS=ravuconazole OR TS=benznidazol OR TS=radanil OR TS=benzonidazol OR TS=rochagan OR TS=E1224 OR TS=posaconazole OR TS=allopurinol OR TS=itraconazole OR TS=drug therapy OR TS=trypanocidal agents OR TS=antiprotozoal agents OR TS=drug administration OR TS=triazoles OR TS=benzodioxoles OR TS=antiparasitic agents OR TS=etiological treatment OR TS=antitrypanosomal chemotherapy OR TS=antiparasitic chemotherapy OR TS=pharmacological therapy OR TS=drug administration OR TS=antitrypanosomal drugs OR TS=trypanocidal drugs OR TS=trypanocidal therapy | **1104657** |
| **#3 Study types:** TS=Clinical Trial OR TS=Randomized Controlled Trial OR TS=Randomized Trial OR TS=Controlled Trial OR TS=Clinical Study | **2799450** |
| **#4 Species (Human):** TS=Human OR TS=Patient OR TS=Humans OR TS=Patients OR TS=volunteers | **10606720** |
| **#5 Combined search:** #1 AND #2 AND #3 AND #4 | **384** |
| **#6 Search limits (Document types):** Articles | **293** |

Database search was concluded in September 20, 2021 at 14:43 a.m.