

Table S2. Source-specific search strategies

Source	Search strategy
PubMed	Virus: "Rotavirus A"[Title/Abstract] OR Rotavirus[Title/Abstract] OR RVA[Title/Abstract]. Genotyping: genotype*[Title/Abstract] OR "genetic diversity"[Title/Abstract] OR VP7[Title/Abstract] OR VP4[Title/Abstract]. Geography: "West Africa"[Title/Abstract] OR Benin[Title/Abstract] OR "Burkina Faso"[Title/Abstract] OR "Cabo Verde"[Title/Abstract] OR "Mauritania"[Title/Abstract] OR "Côte d'Ivoire"[Title/Abstract] OR "Ivory Coast"[Title/Abstract] OR Gambia[Title/Abstract] OR Ghana[Title/Abstract] OR Guinea[Title/Abstract] OR "Guinea-Bissau"[Title/Abstract] OR Liberia[Title/Abstract] OR Mali[Title/Abstract] OR Niger[Title/Abstract] OR Nigeria[Title/Abstract] OR Senegal[Title/Abstract] OR "Sierra Leone"[Title/Abstract] OR Togo[Title/Abstract]. Population/source category: human*[Title/Abstract] OR child*[Title/Abstract] OR pediatric*[Title/Abstract] OR animal*[Title/Abstract] OR livestock[Title/Abstract] OR pig*[Title/Abstract] OR cattle[Title/Abstract] OR goat*[Title/Abstract] OR wildlife[Title/Abstract] OR "environmental water*[Title/Abstract] OR wastewater[Title/Abstract] OR "surface water"[Title/Abstract] OR "stagnant water"[Title/Abstract] OR sewage[Title/Abstract]. Final query: (Virus) AND (Genotyping) AND (Geography) AND (Population/source category).
Scopus	Field: TITLE-ABS-KEY. Virus: "rotavirus A" OR rotavirus OR RVA. Genotyping: genotype* OR "genetic diversity" OR VP7 OR VP4. Geography: "West Africa" OR Benin OR "Burkina Faso" OR "Cabo Verde" OR "Mauritania" OR "Côte d'Ivoire" OR "Ivory Coast" OR Gambia OR Ghana OR Guinea OR "Guinea-Bissau" OR Liberia OR Mali OR Niger OR Nigeria OR Senegal OR "Sierra Leone" OR Togo. Population/source category: human* OR child* OR pediatric* OR animal* OR livestock OR pig* OR cattle OR goat* OR wildlife OR "environmental water*" OR wastewater OR "surface water" OR "stagnant water" OR sewage. Final query: TITLE-ABS-KEY((Virus) AND (Genotyping) AND (Geography) AND (Population/source category)).
Web of Science	Field: TS = . Virus: "rotavirus A" OR rotavirus OR RVA. Genotyping: genotype* OR "genetic diversity" OR VP7 OR VP4. Geography: "West Africa" OR Benin OR "Burkina Faso" OR "Cabo Verde" OR "Mauritania" OR "Côte d'Ivoire" OR "Ivory Coast" OR Gambia OR Ghana OR Guinea OR "Guinea-Bissau" OR Liberia OR Mali OR Niger OR Nigeria OR Senegal OR "Sierra Leone" OR Togo. Population/source category: human* OR child* OR pediatric* OR animal* OR livestock OR pig* OR cattle OR goat* OR wildlife OR "environmental water*" OR wastewater OR "surface water" OR "stagnant water" OR sewage. Final query: TS=((Virus) AND (Genotyping) AND (Geography) AND (Population/source category)).
AJOL	Virus: "rotavirus A" OR rotavirus OR RVA. Genotyping: genotype OR "genetic diversity" OR VP7 OR VP4. Geography: "West Africa" OR Benin OR "Burkina Faso" OR "Côte d'Ivoire" OR Ghana OR Guinea OR Liberia OR Mali OR Niger OR Nigeria OR Senegal OR "Sierra Leone" OR Togo OR "Guinea-Bissau" OR "Mauritania" OR Gambia OR "Cabo Verde". Final query: (Virus) AND (Genotyping) AND (Geography).
ScienceDirect	Field: TITLE-ABSTR-KEY. ("rotavirus A" OR rotavirus OR RVA) AND (genotype OR "genetic diversity" OR VP7 OR VP4) AND ("West Africa" OR Nigeria OR Ghana OR Benin OR "Burkina Faso" OR "Cabo Verde" OR Mauritania OR Senegal OR Mali OR Niger OR Togo OR Guinea OR Gambia OR Liberia OR "Guinea-Bissau" OR "Sierra Leone" OR "Côte d'Ivoire") AND (human OR animal OR wastewater OR "surface water" OR sewage).
SpringerLink	("rotavirus A" OR rotavirus OR RVA) AND (genotype OR "genetic diversity" OR VP7 OR VP4) AND ("West Africa" OR Nigeria OR Ghana OR Benin OR "Burkina Faso" OR Senegal OR Mali OR "Guinea-Bissau" OR Mauritania OR Niger OR Togo OR Guinea OR Liberia OR "Cabo Verde" OR "Sierra Leone" OR "Côte d'Ivoire").
JSTOR	("rotavirus A" OR rotavirus OR RVA) AND (genotype OR "genetic diversity") AND ("West Africa" OR Nigeria OR Ghana OR Benin OR "Burkina Faso" OR Senegal OR Mauritania OR "Cabo Verde" OR "Guinea-Bissau" OR Gambia OR Mali OR Niger OR Togo OR Guinea OR Liberia OR "Sierra Leone" OR "Côte d'Ivoire").
ClinicalTrials.gov	(rotavirus OR "rotavirus A") AND (genotype OR "genetic diversity") AND ("West Africa" OR Nigeria OR Ghana OR Benin OR "Burkina Faso" OR Senegal OR Mali OR Niger OR Togo OR Guinea OR "Guinea-Bissau" OR "Cabo Verde" OR Gambia OR Mauritania OR Liberia OR "Sierra Leone" OR "Côte d'Ivoire").
WHO Global Health Library	("rotavirus A" OR rotavirus OR RVA) AND (genotype OR "genetic diversity" OR VP7 OR VP4) AND ("West Africa" OR Benin OR "Burkina Faso" OR "Côte d'Ivoire" OR Ghana OR Gambia OR Mauritania OR "Guinea-Bissau" OR Guinea OR Liberia OR Mali OR Niger OR Nigeria OR Senegal OR "Sierra Leone" OR Togo).
African Index Medicus	("rotavirus A" OR rotavirus OR RVA) AND (genotype OR "genetic diversity" OR VP7 OR VP4) AND ("West Africa" OR Benin OR "Burkina Faso" OR "Côte d'Ivoire" OR Ghana OR Guinea OR Liberia OR Mali OR Niger OR Nigeria OR Senegal OR "Sierra Leone" OR Togo).
Manual search	Reference lists of all included studies and relevant reviews were screened manually to identify additional eligible studies.

Search strategies were adapted to the syntax and indexing system of each source. Controlled vocabulary was used where supported, including Medical Subject Headings (MeSH) terms in PubMed. Limits: 2010–2025.

AJOL, African Journals Online.