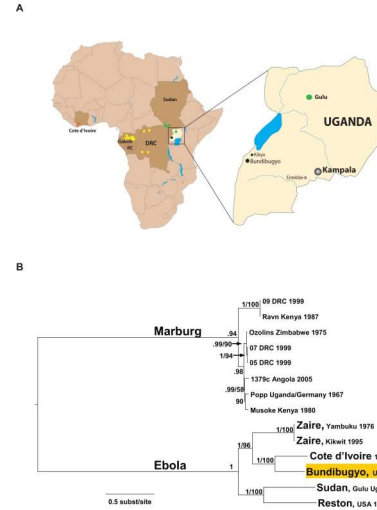


## Natural History of Bundibugyo Virus Disease (BDBV)

- **Filoviridae diversity** : Filoviridae family includes *Marburgvirus* and *Ebolavirus*, which likely evolved from a common ancestor; ebolaviruses show **30–40% genomic divergence**, reflecting distinct ecological niches and evolutionary histories
- **Ebolavirus species** — 4 main species (Zaire, Sudan, Reston, Côte d'Ivoire); Zaire and Sudan have caused multiple large, high-fatality outbreaks (53–90%), whereas Reston and Côte d'Ivoire have not.
- **Reservoir hypotheses** : Natural reservoirs remain uncertain; evidence suggests some **arboreal fruit bats** may host Zaire ebolavirus, and a **cave-dwelling fruit bat** has been implicated for marburgvirus, supporting species-specific bat reservoirs
- **Emergence patterns** : Filovirus outbreaks are sporadic, separated by years or decades; Bundibugyo ebolavirus was identified during a major outbreak in Uganda and is genetically closest—though distantly—to Côte d'Ivoire ebolavirus



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## 2012 -Ebola Virus Disease Outbreak in Isiro, Democratic Republic of the Congo

Response supported by INRB, WHO, CDC, PHAC, UNICEF, Red Cross, and local health authorities

**2 August 2012** — 4 patients in Isiro, Haut-Uele District (Province Orientale, DRC) died from an **unknown illness with unexplained bleeding**, reported by MSF

**9 August 2012** — An **MSF team arrived** in Isiro to set up a provisional **Ebola Treatment Centre (ETC)** at the General Hospital.

**16 August 2012** — **Bundibugyo ebolavirus (BDBV)** was **confirmed** in the initial samples

**21 August 2012** — The ETC was **expanded**, with additional staff and supplies deployed

**26 November 2012** — The MoH declared the **end of the outbreak**

- Clinical management of EVD patients followed the MSF 2008 Filovirus Haemorrhagic Fever Guidelines
- Suspect cases were defined as any case with fever and at least three signs and/or symptoms compatible with EVD from a predefined list, or any unexplained death.
- Probable cases were suspect cases with prior contact with a probable or confirmed EVD case.
- Confirmed cases were defined as Polymerase Chain Reaction (PCR) or Immunoglobulin M (IgM) ELISA positive



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