



# A new Ebola vaccine: the journey so far

Accelerating 10 years to 10 months

GSK shipped first batch of vaccine to Liberia



Next steps...

Mar 2015

**Phase II**  
3,000 healthy adults and children in clinical trials  
▪ Mali, Nigeria, Ghana, Senegal, Cameroon

**Phase III**  
30,000 volunteers including frontline healthcare workers  
▪ Liberia

Vaccines normally take 10-15 years to develop

GSK already collaborating with NIH to develop an Ebola vaccine

**First case of current strain of Ebola in West Africa**

Outbreak recognised as a major incident in Guinea (March 2014), Sierra Leone (May 2014) and Liberia (July 2014)

Dec 2013

GSK supports humanitarian aid partners, helping with critical supplies, equipment and training of additional health workers



Jan 2015

Initial trials suggest candidate vaccine has acceptable benefit risk profile

Doses have been manufactured and are ready to be shipped

Financial support ensures vaccine development stays on track



Dec 2014

£25m  
Partners commit a total of nearly £25m

£11.1m European Commission (EC)  
£1.8m Bill & Melinda Gates Foundation  
£1.1m Swiss Government  
£2.8m UK partners  
£8m BARDA

Mar 2014

Grant from UK partners enables manufacture of new vaccine lots

UK partners  
▪ Wellcome Trust  
▪ Medical Research Council (MRC)  
▪ UK Department for International Development (DFID)

On 8 August, WHO declared the epidemic to be a "public health emergency of international concern."

Aug 2014

GSK, together with private and public partners, form international consortium to accelerate the development of candidate vaccine



Nov 2014

**Phase I: 200 volunteers**  
▪ Mali  
▪ Switzerland  
▪ UK  
▪ USA

10,000  
GSK begin manufacturing another 10,000 doses

Sept 2014

Multiple trials run in parallel with the development of the manufacturing process. The aim is to have stocks ready if the trials are successful

Quality, safety and efficacy standards are fully observed

GSK begin manufacturing an additional 20,000 doses at the same time as initial clinical trials

