

#### **Draft Guidance for Industry**

Slide 2

## **Tropical Disease Priority Review Vouchers**

Encouraging a business model for the development of new medicines with limited market potential in under-developed nations



#### **Tropical Disease**

## **Applications that Qualify for a Priority Review**

Applying the Guidance for Adding to the List of Qualifying Diseases



#### Tropical Disease Priority Review Voucher Slide 4

## **Proposed Criteria for Adding** Named Diseases to the **Qualified List**

Any other infectious disease for which:

- •There is no significant market for treatment in developed nations
- Disproportionately affects poor and marginalized populations



#### **Proposed Qualification Criteria**

Slide 5

#### No Significant Market in Developed Nations

- Prevalence in developed nations
- Incidence intermittent or unpredictable
- No reasonable expectation to recover costs
- Identified by WHO as neglected disease

#### Affects Poor Marginalized Populations

- Primarily affect underdeveloped countries
- Affect areas with minimal healthcare
- Health care workers at higher risk
- Zoonotic disease
- Identified by WHO as neglected disease



#### No Significant Market Developed Nations

Slide

#### **Low Prevalence in Developed Nations**

"rare disease" definition of the Orphan Drug Act

#### Intermittent or Unpredictable

Due to pathogens not generally present in human populations

#### **Cost Recovery**

- Small sales expectations due to both incidence of disease and healthcare economics within affected nations
- · Stockpiling and distribution challenges

#### **WHO Classification**

Neglected disease definition considers lack of market in developed nations



#### **Effects Poor Marginalized Populations**

Slide 7

#### **Affects Underdeveloped Countries**

· Ratio of incidence in under developed vs developed nations

#### **Minimal Health Care Infrastructure**

Implicit in definition of "underdeveloped country"

#### **Healthcare Workers at Risk**

 Loss of healthcare workers compounds problems of treatment and care

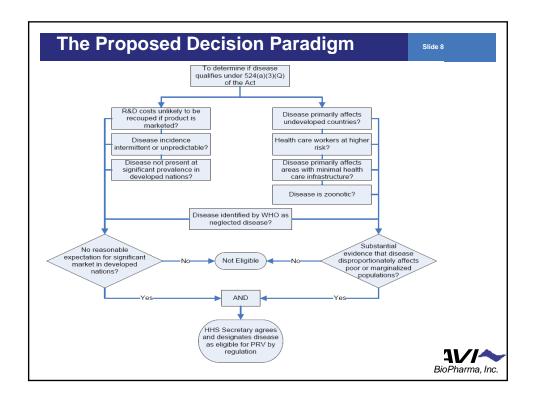
#### Zoonotic

Poor marginalized populations and proximity to possible disease reservoirs

#### WHO Classification

 Neglected disease definition considers primary affects on poor or disadvantage populations





#### "Weight of Evidence"

Slide 9

- If a disease does not meet one of these specific criteria, it is not automatically excluded from eligibility.
- Rather does evidence support whether an infectious disease has both:
  - no significant market in developed nations
     AND
  - disproportionately affects poor and marginalized populations.



#### **Adding to the List of Named Diseases**

Slide 10

# Eligibility for a Priority Review Voucher;

The Case for Ebola and Marburg
Hemorrhagic Fever



### **Ebola and Marburg Virus** (CDC)

Slide 1

|                  | Ebola Virus         |            | Marburg Virus       |            |
|------------------|---------------------|------------|---------------------|------------|
|                  | Human<br>Infections | Fatalities | Human<br>Infections | Fatalities |
| Africa           | 2245                | 1507       | 414                 | 360        |
| Europe           | 1                   | 0          | 31                  | 7          |
| North<br>America | 6                   | 0          | 0                   | 0          |
| Australia        | 0                   | 0          | 0                   | 0          |
| Asia             | 2                   | 0          | 2                   | 0          |
| South<br>America | 0                   | 0          | 0                   | 0          |



#### Do these Diseases Meet the Criteria?

Slide 12

- Outbreaks are isolated and sporadic due to unknown reservoir for the Ebola and Marburg viruses
- No known curative or preventative treatments
- Treatment is limited to supportive care
- Outbreaks of EHV limited strictly to African continent
- Incidence of Marburg is >10-fold higher on the African continent than in the entire rest of the world combined
- Economic hardship effects healthcare infrastructure



Slide 13

#### Do these Diseases Meet the Criteria?

- Transmission due to direct contact, exposure to body fluids
- Disease transmission mode puts healthcare workers at risk
- Often transmitted to caregiver and family members; nosocomial infection of health care workers repeatedly documented
- Poor socio-economic status in health care facilities often favor disease transmission rather than containment
- Designated by WHO (and ASTMH) neglected tropical disease within the zoonotic disease classification

