## MEASLES RUBEOLA:

## Stay Healthy, Informed, and Vaccinated

## What is Measles? ${ }^{1}$

- A highly contagious viral infection known as Measles or Rubeola
* Caused by the virus Measles morbillivirus.

Common symptoms include:
$>$ High fever
> Runny nose
$>$ Cough
$>$ Eye inflammation
$>$ White spots on inside of mouth
> Red rash across entire body

* No treatment, only supportive care available
$>$ Symptoms can develop between 7 and 18 days after exposure to virus
$>$ Symptoms can last 7 to 10 days
* Childhood vaccinations provide lifelong immunity


## 140,000

Measles deaths globally in 2018: mostly among children under the age of 5

Number of children infected with Measles every year in U.S. before creation of vaccines

Estimated deaths that were prevented between 2000 2018 because of vaccines


A young child with a full-body rash caused by measles

## Why is it dangerous?

## Extremely Contagious

 Spreads through coughing, sneezing, touching contaminated surfacesIf one person has measles, 9 out of 10 unvaccinated people around him/her will also get sick

The virus can survive in the air for up to two hours

## Life-Threatening

1 in 4
Cases of Measles will result in hospitalization

1 in 1000 cases of Measles will lead to death or extreme complications. Including brain swelling or respiratory and neurological complications. ${ }^{1}$

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*Source: Morbidity and Mortality Weekly Report (MMWR), Notifiable Diseases and Mortality Tables
Measles cases in the USA: 2001-2018
People think that "eradicated" means there is no more Measles in America. This is false: there are hundreds of cases every year. Without vaccination you can still contract measles, especially if you travel abroad. ${ }^{4}$

## I can't get Measles because of herd immunity FALSE

When enough people are vaccinated, everyone is at a lower risk of infection (also known as "population immunity"). At least $\mathbf{9 3 \%}$ of the population must have the vaccine for herd immunity to work. ${ }^{5}$

Everyone should get vaccinated, so people that cannot (immunocompromised) can stay safe. If too many people don't vaccinate, herd immunity no longer works.

Measles are eradicated in the United States

Measles were classified as "eliminated" in the US in 2000. However, there are still major outbreaks such as in New York (2018). ${ }^{4}$ Measles can still be contracted abroad and without vaccination. It is still extremely dangerous to vulnerable populations.

## Vaccines: True or False?

## MMR vaccine makes you immune to the virus

 TRUEVaccines train your body to fight diseases by introducing your immune system to components of the virus (called antigens). Two doses of the MMR vaccines are $\mathbf{9 7 \%}$ effective at preventing Measles, Mumps, and Rubella. ${ }^{3}$

## Vaccines are dangerous / cause Autism <br> FALSE

Many myths exist about vaccines: each one has been studied and debunked. There is absolutely no link between vaccines and autism. Vaccines cannot give you the disease. Vaccines are healthy, safe, and extremely important for keeping diseases like Measles from spreading. ${ }^{2}$


Young girl receives her safe and life-long vaccine

