

# HERD IMMUNITY?

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## TETANUS

Not a communicable disease; the vaccine is for personal protection against tetanus due to a contaminated wound.

## PERTUSSIS

The vaccine can't prevent infection or transmission of the bacteria only reduce personal risk of whooping cough.

Newborns are catching whooping cough from fully-vaccinated siblings and adults.

## MUMPS

Mumps is being spread & caught in fully-vaccinated populations; the vaccine fails often & wanes rapidly.

## MEASLES

The vaccine fails in 2-10% and its protective effect wanes in 20 years for about  $\frac{1}{3}$  of fully-vaccinated people. Studies show a 3rd dose doesn't extend protection beyond several months. In 1984, researchers warned that soon there will be more people susceptible to measles among the fully-vaccinated than there were non-immune children in the pre-vaccine era, when nearly everyone over the age 15 had acquired natural lifetime immunity.

## HEPATITIS B

The vaccine doesn't play a role in preventing Hepatitis B (a blood-borne and sexually-transmitted disease) in a public setting. Infected children can attend school without posing a risk to others.

## POLIO

The inactivated vaccine (IPV) only prevents the symptoms of polio, it doesn't prevent gut colonization and excretion of the virus in stool. Countries with circulating wild polio do not rely on IPV to stop transmission.

## INFLUENZA (FLU)

The vaccine doesn't generate the proper type of mucosal immune response to prevent upper respiratory tract infection in the nose and throat; it can't prevent the transmission of the flu virus.