



Health Profile: Vaccine Preventable Disease

Gwinnett County 2015

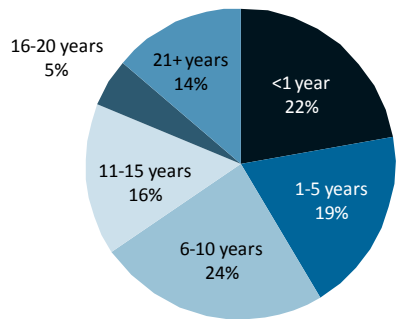
Common Childhood Illness

Vaccine preventable diseases are immediately notifiable in the state of Georgia. Over the past ten years anti-vaccination movements have caused an increase in vaccine preventable illnesses across the county. Outbreaks of Measles and Pertussis are showing up on both coasts. Luckily, Measles has not entered the Gwinnett County, although epidemiology staff facilitate testing of suspect cases. Varicella (Chickenpox) became a notifiable disease in 2011 and early reports were most likely sporadic as providers were not accustomed to reporting it.

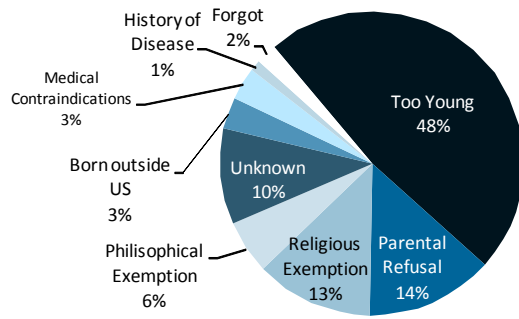
Hepatitis (Acute & Chronic)

All reported viral hepatitis cases are evaluated for acute symptoms of illness by Gwinnett County epidemiology staff. Preventative medication can be given to close contacts of hepatitis A and B cases to prevent illness. Hepatitis A is of significant concern to epidemiology staff, even with its low prevalence, due to the potential for outbreaks within the community. Unlike hepatitis B and C that are spread through contact to blood and other bodily fluids, hepatitis A is spread either through person-to-person or through food or water that has been contaminated with the feces from a human infected with the virus. Vaccination is available for hepatitis A and B. Approximately 90% of hepatitis B infected infants will develop chronic infection. The risk goes down as a child gets older. Approximately 30% of children infected between the ages of 1 and 5 years will develop chronic hepatitis. The risk drops to <5% when a person is infected over 5 years of age.

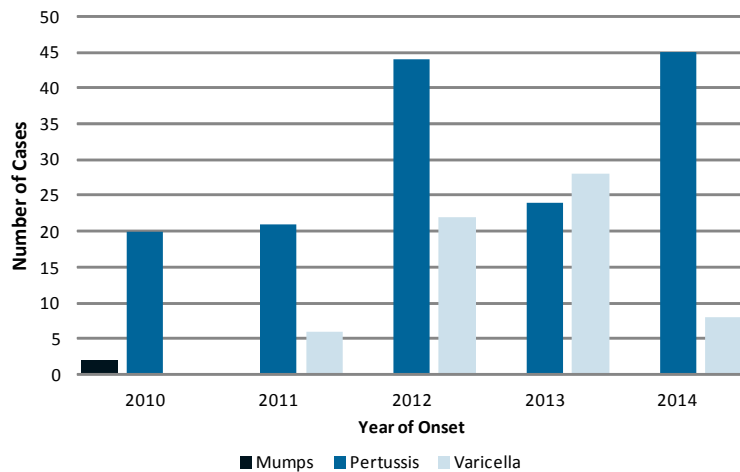
Vaccine Preventable Illness by Age of Case
Gwinnett County 2010-2014 (N=220)



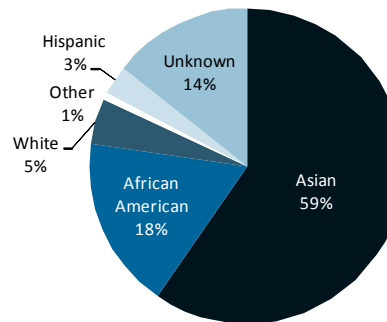
Vaccine Preventable Illness by Reason Not Vaccinated
Gwinnett County 2010-2014 (N=88)



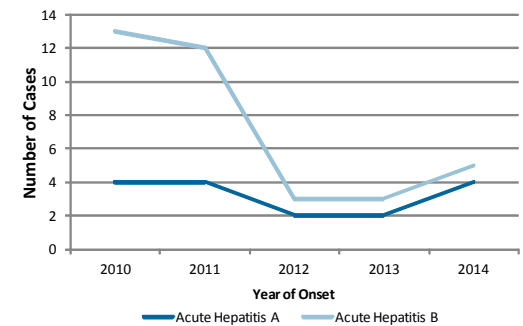
Vaccine Preventable Illness by Disease
Gwinnett County 2010-2014 (N=220)



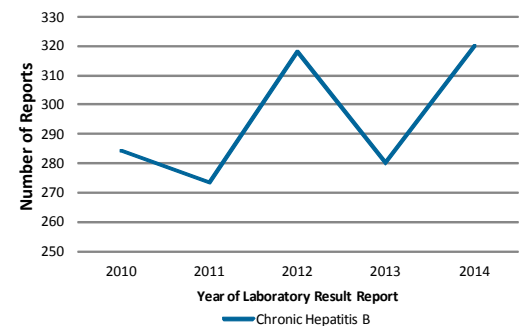
Hepatitis B by Race/Ethnicity
Gwinnett County
2010-2014 (N=1,403)



Acute Hepatitis by Type
Gwinnett County 2010-2014 (N=65)



Chronic Hepatitis B
Gwinnett County 2010-2014 (N=2,699)



Data: Georgia State Electronic Notifiable Disease Surveillance System (SendSS)

Hepatitis B Statistics: McMahon BJ, Alward WL, Hall DB, et al. Acute hepatitis B virus infection: relation of age to the clinical expression of disease and subsequent development of the carrier state. J Infect Dis 1985; 151:599-603.