

Chronic Cerebrospinal Fluid (CSF) Leak

Recommended vaccines for those with chronic cerebrospinal fluid (CSF) leak ^A	
All routine vaccines	Immunize according to routine schedule.
Pneumococcal conjugate vaccine	Immunize according to age and pneumococcal vaccine history.

Individuals with a CSF leak (usually from a congenital malformation, skull fracture or neurologic procedure) are at increased risk for pneumococcal infection.

^A For specific vaccine schedule information, refer to [Part 4 - Biological Products](#).