Disease Incidence Before Vaccination		cidence After	Effects of Disease	Side Effects of Vaccine
	Vac	ccination		
Polio				
Spread by faeces and saliva. Incubation: 1-2 weeks.			1% of infections have clinical symptoms, but about 1 in 20 hospitalized patients dies and 50% of survivors	IPV used in Canada so vaccine associated polio though very rare, is no longer a risk.
Infection may lead to fever, headache, nausea and vomiting, muscle weakness and paralysis.  Range 2.5-28.3 /100,000  Indigenous disease				
Range 2.5-28.3 /100,000 Epidemic years had up to 20,000 cases of paralytic disease.	era fror end	igenous disease dicated n the Americas. Still lemic ther parts of the world.	remain paralysed.	Local discomfort or inflammation in 5% of recipients.
				- see side effects of DtaP vaccine below for combination use.
Diphtheria		•	Case fatality rate 5-10%.	DTaP vaccine - about 20% have local
Spread by nasal droplets. Incubation: 2-5 days.			Toxin may lead to myocardial and neurological complications.	discomfort or inflammation, 5% have fever. A translent nodule may develop at the injection site, lasting a few weeks. Up to 70% at the 4-6yr booster develop redness and
nfection leads to severe pharyngitis and cervical adenopathy.				
atient is infectious for up to 2 weeks.				
Highest in 1924 with 9,000 cases that year.		2-5 reported cases per r, none reported in 1996.	THE PROPERTY OF THE PROPERTY O	swelling.
nus			Case fatality about 10%. Risk is greatest for the very young or old.	See above – side effects of DTaP vaccine. Local erythema and swelling not uncommon with adult boosters, and increasing with age. Peripheral neuropathies have been rarely
acteria present in soil and animal faeces. Incubation: 3-21 days.				
auses painful muscular contractions and convulsions.				
Average 40-50 deaths per year.	only	cases per year reported, 5 deaths in the last 18 rs and none since 1991.		reported.
ertussis			About 1% case fatality in patients under 6 months,	
Spread by cough and nasal droplets. Incubation: 7-10 days.			from pneumonia or fatal encephalopathy (usually hypoxic). Several deaths still occur every year,	Rate of reactions to acellular pertussis
symptoms include runny nose and Irritating cough, which may develop into whooping cough.  Average 153 /100,000  Average 10 /100,000			particularly in unimmunized infants.	vaccine is less than with whole cell.
Average 153 /100,000 Hib	Avei	age 10 /100,000	Case fatality of	5% have discomfort or
read by nasal droplets. Incubation: 2-4 days. Presents as an acute illness with fever, vomiting, and hargy (symptoms of meningitis) in 55-65%. In the remainder, it can also cause epiglottitis, pneumonia, cteremia and other complications			meningitis is 5% (10- 15% of survivors have permanent neurologic	local inflammation, 2% have fever. Usually given in combination with DT (see above – side effects of DTaP
Leading cause of bacterial meningitis in Infancy. About 2,000 cases per year	bein	vanecdotal cases now g reported, less than 60 s per year in the last few s.		vaccine).
Measles  Spread by cough and nasal droplets. Incubation: 1-2 weeks.			Complications such as bronchopneumonia and otitis media in about 10%.	5-10% have discomfort, local inflammation or fever with or without a non-infectious rash.
Symptoms include fever, sore throat, cough, runny nose, itchy eyes and a red rash that starts on the face				1/1 million recipients
ond spreads to the rest of the body.  Cyclic with increasing incidence every 2-3 years.	Recent outbreaks with 11,000		(case fatality 10%, permanent sequelae 25%).	develop encephalitis.
About 300,000 to 400,000 cases per year estimated.	(199 sche	s (1989) and 2,300 15). With 2 dose dule, now fewer than 400 s per year.		About 1/24,000 develop transient thrombocytopenia.
mps			1/ 200 children develops encephalitis. 20-30% of post-pubertal males develop orchitis, 5% of females develop	Fever and a mild skin rash occasionally occurs.
oread by saliva. Incubation: 2-3 weeks. Symptoms include fever nd parotitis.				1% of recipients may
lighest in 1942 with 52,344 cases	17	Average incidence 2.35 100,000, or about 500	oophoritis.	develop parotitis.
everage incidence 136 /100,000		cases annually.	Occasionally, mumps causes infertility or deafness.	1 in 3 million recipients may develop aseptic meningitis.
belia			50% develop a rash and adenopathy; 50% of	About 10% have discomfort, local
denopathy and rash.			adolescents and adults have acute arthralgias or arthritis; 1/6,000	inflammation or fever. About 5% have swollen glands, stiff neck or joint
lighest in 1936 with 69,401 cases	Aver			pains. About 1% develor a noninfectious rash.
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