

Where in these figures is there anything to disprove that vaccination is a life saver?

*Influence of Vaccination on Attack Rates in Children.*

Passing from the facts and figures proving the death rate of smallpox to be lower in the vaccinated than the unvaccinated, it will be interesting to consider the influence of vaccination on the attack rate, and for this purpose the returns of five recent outbreaks are given:—

Attack rate under 10 years of age.		Attack rate over 10 years of age.	
Vaccinated.	Unvaccinated.	Vaccinated.	Unvaccinated.
Sheffield.....	7.9	67.6	28.3
Warrington....	4.4	54.5	53.6
Dewsbury.....	10.2	50.8	29.9
Leicester.....	2.5	35.3	27.7
Gloucester.....	8.8	46.3	22.2
			50.

The attention of the reader is directed in this table to the lessened liability to attack of smallpox among children under ten years of age, that is the ages nearer to the date of the first or primary vaccination, than in those of older age, and if further proof of this fact is needed, the following, extracted from the British Royal Commission Report is given, the epidemic dealt with being that of Sheffield.

*Sheffield Attack Rate.*

Vaccinated population.....	268,397	Unvaccinated population....	5,715
Attacked by Smallpox.....	4,151	Attacked by Smallpox.....	552
Per cent.....	1.55	Per cent.....	9.7
Vaccinated children under 10 ..	68,236	Unvaccinated children under	
Attacked by Smallpox.....	353	10.....	2,259
Per cent.....	0.5	Attacked by Smallpox.....	228
Vaccinated 10 years and up....	196,905	Per cent.....	10.1
Attacked by Smallpox.....	3,774	Unvaccinated persons 10 years	
Per cent.....	1.9	and up.....	3,429
		Attacked by Smallpox.....	322
		Per cent.....	9.4

*Lesson Taught Regarding Beneficial Effects of Vaccination.*

Having so far considered simply the effects of what is known as primary vaccination, i.e., the first successful vaccination of an individual by bovine vaccine, some consideration will be given to revaccination statistics, but before doing so it may profit somewhat if the reader is reminded of the lesson learned, viz., *Successful (primary) Vaccination lessens both the Incidence and the Mortality of Smallpox.* The following figures will prove that *those successfully revaccinated are less frequently attacked with smallpox than those only once vaccinated.*

*Figures of Results of Revaccination.*

In Sheffield (1887), of 64,431 revaccinated persons, 27 were attacked, with one death, the attack rate being 0.04 per cent.

In Leicester (1892-3), in a group of 133 houses, with 842 inmates, 141 persons were attacked and of the 84 revaccinated inmates only one developed smallpox. Again, in 60 houses, with 392 inmates, 179 were attacked, and of the 31 revaccinated, 5 developed the disease.