

Combined MMR vaccine – mumps

Numbers for people who either received the full MMR vaccination series in childhood or not, if exposed to the mumps virus later in life.

	10,000 people without vaccination exposed to the mumps virus	10,000 people with vaccination exposed to the mumps virus
Benefits*/**		
How many people contract mumps?	2,400-4,800	72-912
How many people suffer from inflammation of the parotid glands below the ears due to mumps?	2,280-4,560	68-866
How many people suffer from inflammation of the acoustic nerve with possible hearing loss due to mumps?	5-19	0-4
How many people suffer from inflammation of the heart muscle due to mumps?	144-288	4-55
How many people suffer from meningitis due to mumps?	120-240	4-46
Harms***		
How many children suffer from a low platelet count (thrombocytopenia) due to the vaccination?	–	0-1
How many children suffer from febrile seizures due to the vaccination?	–	2-16

*The combined MMR vaccination also protects against measles and rubella. **Numbers given under benefits are based on model calculations. ***Redness, pain, or swelling at the injection site are possible.

Short summary: A vaccination may protect against mumps in case of exposure to the virus or reduce severe symptoms if infected despite vaccination. Redness, pain, or swelling at the injection site are possible; severe reactions to the vaccination are very rare.

Sources: [1] Demicheli et al. *Cochrane Database Syst Rev* 2012;2:CD004407. [2] Doerr & Gerlich. Georg Thieme 2010.[3] Plotkin et al. *Vaccines*. 6 ed: Saunders 2012. [4] RKI (ed.). *RKI-Ratgeber für Ärzte: Masern*. 2014. [5] Wichmann & Ultsch. *Bundesgesundheitsbl Gesundheitsforsch Gesundheitssch* 2013;56(9):1260-9. [6] Friese et al. (ed.). *Infektionserkrankungen der Schwangeren und des Neugeborenen*. Springer 2013. [7] Quast & Stück. *Ärzte Merkblatt* 2002. [8] Black et al. *BJCP* 2003;55(1):107-11. [9] Patja et al. *Pediatrics* 2001;107(2):e27. [10] Vestergaard et al. *JAMA* 2004;292(3):351-7. [11] Wilson et al. *PLoS One* 2011;6(12):e27897.