



Childhood Immunization Status (CIS)

The percentage of children 2 years of age who had a four diphtheria, tetanus and acellular pertussis (DTaP); three polio (IPV); one measles, mumps and rubella (MMR); three haemophilus influenza type B (HiB); three hepatitis B (HepB), one chicken pox (VZV); four pneumococcal conjugate (PCV); one hepatitis A (HepA); two or three rotavirus (RV); and two influenza (flu) vaccines by their second birthday.

The measure calculates a rate for each vaccine and nine separate combination rates.

WHY IT MATTERS?

Childhood vaccines protect children from a number of serious and potentially life-threatening diseases such as diphtheria, measles, meningitis, polio, tetanus and whooping cough, at a time in their lives when they are most vulnerable to disease.^{1,2} Approximately 300 children in the United States die each year from vaccine preventable diseases.³

Immunizations are essential for disease prevention and are a critical aspect of preventable care for children. Vaccination coverage must be maintained in order to prevent a resurgence of vaccine-preventable diseases.⁴

RESULTS

INFLUENZA

	Commercial			Medicaid		Medicare	
Year	HMO	PPO		HMO		HMO	PPO

INFLUENZA

2017	66.1	64.5	47.4	--	--
2016	64.5	62.3	45.3	--	--
2015	64.8	61.0	45.7	--	--
2014	66.6	63.5	51.1	--	--
2013	65.3	61.3	50.0	--	--
2012	63.3	59.8	49.5	--	--
2011	61.1	57.3	44.8	--	--
2010	57.1	51.1	43.6	--	--

**CHILDHOOD
IMMUNIZATION
COMBINATION 2****(DTAP, IPV, MMR, HIB,
HEPATITIS B AND VZV)**

Year	Commercial		Medicaid	Medicare	
	HMO	PPO		HMO	PPO
2017	78.6	71.2	72.9	--	--
2016	78.5	69.6	73.0	--	--
2015	78.4	66.8	72.5	--	--
2014	80.1	68.5	73.8	--	--
2013	78.8	67.5	74.0	--	--
2012	79.7	68.1	75.7	--	--
2011	78.0	64.8	74.5	--	--
2010	78.5	48.5	74.1	--	--
2009	77.7	43.1	74.3	--	--
2008	81.2	30.6	73.7	--	--

**CHILDHOOD
IMMUNIZATION
COMBINATION 2****(DTAP, IPV, MMR, HIB,
HEPATITIS B AND VZV)**

2007	80.8	30.1	72.1	--	--
2006	79.8	24.5	73.4	--	--
2005	77.7	54.8	70.5	--	--
2004	72.5	--	63.1	--	--
2003	69.8	--	58.5	--	--
2002	62.5	--	53.2	--	--
2001	57.6	--	52.5	--	--
2000	53.5	--	--	--	--
1999	47.5	--	--	--	--

**CHILDHOOD
IMMUNIZATION
COMBINATION 3****(DTAP, IPV, MMR, HIB,
HEPATITIS B, VZV AND
PCV)**

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO
2017	76.8	69.5	69.4	--	--
2016	76.5	68.9	69.7	--	--
2015	76.3	68.4	69.0	--	--
2014	78.0	69.0	70.4	--	--
2013	76.6	66.5	70.8	--	--
2012	76.8	65.8	72.1	--	--
2011	75.7	63.1	70.6	--	--
2010	75.1	46.1	69.9	--	--

**CHILDHOOD
IMMUNIZATION
COMBINATION 3****(DTAP, IPV, MMR, HIB,
HEPATITIS B, VZV AND
PCV)**

2009	73.4	40.4	69.4	--	--
2008	76.6	28.5	67.6	--	--
2007	75.5	27.6	65.4	--	--
2006	65.7	22.4	60.9	--	--

**CHILDHOOD
IMMUNIZATION
COMBINATION 10****(DTAP, IPV, MMR, HIB, HEPATITIS
A, HEPATITIS B, VZV, PCV,
ROTAVIRUS AND INFLUENZA)**

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO
2017	53.4	47.9	35.4	--	--
2016	51.0	45.4	33.3	--	--
2015	51.0	45.4	33.3	--	--
2014	51.5	43.4	36.1	--	--
2013	49.3	38.7	34.7	--	--
2012	37.9	29.5	31.4	--	--
2011	22.9	17.0	17.3	--	--
2010	18.5	10.4	15.2	--	--

**DIPHTHERIA, TETANUS, ACELLULAR
PERTUSSIS (DTAP/DT)**

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO
2017	85.3	80.4	76.3	--	--

**DIPHTHERIA, TETANUS, ACELLULAR
PERTUSSIS (DTAP/DT)**

2016	85.3	79.6	76.8	--	--
2015	85.9	77.5	76.3	--	--
2014	87.3	80.2	78.0	--	--
2013	86.7	80.3	79.0	--	--
2012	87.2	80.0	80.9	--	--
2011	86.5	76.8	79.8	--	--
2010	86.3	64.7	80.2	--	--
2009	85.4	59.9	79.6	--	--
2008	87.2	47.7	78.6	--	--
2007	86.9	42.4	77.8	--	--
2006	87.2	39.2	79.3	--	--
2005	86.1	62.8	76.9	--	--
2004	85.9	--	75.6	--	--
2003	84.3	--	72.6	--	--
2002	80.1	--	69.4	--	--
2001	81.5	--	71.2	--	--
2000	80.4	--	--	--	--
1999	78.7	--	--	--	--

HEPATITIS B (HEP B)

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO

HEPATITIS B (HEP B)

2017	86.3	78.6	88.2	--	--
2016	85.4	77.1	88.0	--	--
2015	86.5	74.8	87.7	--	--
2014	88.9	77.9	89.3	--	--
2013	88.1	76.8	88.6	--	--
2012	89.2	77.3	89.5	--	--
2011	87.9	74.7	88.8	--	--
2010	90.2	58.7	90.1	--	--
2009	90.1	53.7	89.1	--	--
2008	91.8	38.7	88.3	--	--
2007	91.3	35.8	87.2	--	--
2006	91.0	31.1	88.4	--	--
2005	90.0	57.7	85.4	--	--
2004	87.2	--	81.9	--	--
2003	85.8	--	79.5	--	--
2002	81.9	--	76.2	--	--
2001	79.9	--	75.4	--	--
2000	77.9	--	--	--	--
1999	75.5	--	--	--	--

HAEMOPHILUS INFLUENZA TYPE B (HIB)

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO

HAEMOPHILUS INFLUENZA TYPE B (HIB)

2017	91.6	86.8	87.7	--	--
2016	91.3	86.0	88.1	--	--
2015	91.9	84.5	87.6	--	--
2014	93.7	87.5	89.3	--	--
2013	93.5	88.1	90.7	--	--
2012	94.3	88.3	92.0	--	--
2011	94.1	86.1	91.0	--	--
2010	94.3	75.5	90.3	--	--
2009	94.8	74.8	93.7	--	--
2008	94.8	66.3	93.4	--	--
2007	93.1	53.6	87.7	--	--
2006	93.4	49.2	89.1	--	--
2005	92.9	72.6	86.8	--	--
2004	87.7	--	79.1	--	--
2003	86.1	--	77.7	--	--
2002	83.2	--	73.8	--	--
2001	83.4	--	74.9	--	--
2000	82.7	--	--	--	--
1999	80.7	--	--	--	--

INACTIVATED POLIO VIRUS (IPV)

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO

INACTIVATED POLIO VIRUS (IPV)

2017	90.6	85.5	88.2	--	--
2016	90.4	84.9	88.7	--	--
2015	90.7	82.5	87.7	--	--
2014	92.3	85.7	89.0	--	--
2013	92.2	86.2	90.0	--	--
2012	92.8	86.3	91.6	--	--
2011	92.4	83.4	90.5	--	--
2010	91.8	71.1	90.8	--	--
2009	91.1	65.3	89.0	--	--
2008	92.1	52.6	87.9	--	--
2007	91.5	47.5	87.3	--	--
2006	91.4	43.0	87.9	--	--
2005	90.3	66.7	84.7	--	--
2004	90.1	--	84.8	--	--
2003	88.7	--	83.1	--	--
2002	86.0	--	80.3	--	--
2001	85.4	--	79.1	--	--
2000	84.2	--	--	--	--
1999	82.6	--	--	--	--

MEASLES, MUMPS, RUBELLA (MMR)

	Commercial		Medicaid		Medicare
Year	HMO	PPO	HMO	HMO	PPO

MEASLES, MUMPS, RUBELLA (MMR)

2017	92.5	90.4	88.8	--	--
2016	92.8	90.5	89.5	--	--
2015	93.0	89.9	89.2	--	--
2014	92.1	89.1	90.0	--	--
2013	91.5	88.7	90.5	--	--
2012	91.8	88.3	91.6	--	--
2011	91.5	86.9	90.9	--	--
2010	90.8	82.7	90.6	--	--
2009	90.6	80.5	91.2	--	--
2008	93.5	76.4	90.9	--	--
2007	93.5	76.3	90.4	--	--
2006	93.6	75.0	91.1	--	--
2005	93.0	86.2	89.6	--	--
2004	92.3	--	88.1	--	--
2003	91.5	--	87.4	--	--
2002	90.1	--	84.4	--	--
2001	89.4	--	83.7	--	--
2000	88.4	--	--	--	--
1999	87.0	--	--	--	--

PNEUMOCOCCAL CONJUGATE (PCV)

	Commercial		Medicaid	Medicare	
Year	HMO	PPO	HMO	HMO	PPO

PNEUMOCOCCAL CONJUGATE (PCV)

2017	85.7	80.9	76.8	--	--
2016	85.4	79.9	77.2	--	--
2015	85.9	77.7	76.5	--	--
2014	87.5	80.4	78.3	--	--
2013	87.0	78.3	79.2	--	--
2012	86.7	78.9	80.1	--	--
2011	87.0	77.7	79.3	--	--
2010	85.6	65.6	79.4	--	--
2009	84.6	60.1	77.6	--	--
2008	84.8	47.8	75.6	--	--
2007	83.6	42.3	73.8	--	--
2006	72.8	37.1	68.3	--	--

VARICELLA (VZV)

Year	Commercial		Medicaid		Medicare
	HMO	PPO	HMO	HMO	PPO
2017	92.0	90.0	88.6	--	--
2016	92.0	89.5	89.0	--	--
2015	91.9	88.6	88.8	--	--
2014	92.0	88.6	88.8	--	--
2013	91.5	88.3	90.2	--	--
2012	91.6	88.0	91.1	--	--
2011	91.3	86.9	90.5	--	--

VARICELLA (VZV)

2010	90.8	82.2	90.0	--	--
2009	90.6	79.7	90.6	--	--
2008	92.0	74.8	89.7	--	--
2007	91.9	74.4	88.7	--	--
2006	90.9	72.0	88.9	--	--
2005	89.9	82.0	86.6	--	--
2004	87.5	--	84.7	--	--
2003	85.7	--	81.8	--	--
2002	82.0	--	76.4	--	--
2001	75.3	--	73.6	--	--
2000	70.5	--	--	--	--
1999	63.8	--	--	--	--

HEPATITIS A (HEP A)

Year	Commercial		Medicaid		Medicare
	HMO	PPO	HMO	HMO	PPO
2017	87.8	85.8	84.3	--	--
2016	86.8	84.6	84.2	--	--
2015	85.5	83.1	83.7	--	--
2014	83.7	81.8	83.4	--	--
2013	82.5	79.3	81.9	--	--
2012	65.5	61.1	76.4	--	--
2011	39.0	32.2	39.2	--	--

HEPATITIS A (HEP A)

2010	35.4	28.6	36.5	--	--
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ROTAVIRUS (RV)

	Commercial		Medicaid		Medicare
Year	HMO	PPO	HMO	HMO	PPO
2017	81.8	77.0	70.1	--	--
2016	80.5	75.5	69.0	--	--
2015	80.2	72.8	67.9	--	--
2014	80.8	74.6	68.1	--	--
2013	79.9	71.9	67.7	--	--
2012	76.7	69.8	66.0	--	--
2011	75.1	67.2	62.4	--	--
2010	63.5	51.9	57.6	--	--

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