

Priority Area 20: Immunization and infectious diseases objective status

Objective	Baseline year	Baseline	1990	1991	1992	1993	1994	1995	1996	1997	1998	p/1999	Target 2000
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20.1 Vaccine-preventable diseases (number of cases)													
Diphtheria among people 25 years and under	1988	1	2	2	3	0	2	0	0	3	1	---	0
Tetanus among people 25 years and under	1988	3	6	4	7	4	5	5	3	9	9	---	0
Polio (wild-type virus)	1988	0	0	0	0	0	0	0	0	0	0	---	0
Measles	1988	a/3,396	26,527	9,411	2,237	312	963	309	508	138	100	---	0
Rubella	1988	225	1,125	1,401	160	192	227	128	238	181	364	---	0
Congenital Rubella Syndrome	1988	6	11	47	11	5	7	6	4	5	7	---	0
Mumps	1988	4,866	5,292	4,264	2,572	1,692	1,537	906	751	683	666	---	500
Pertussis	1988	3,450	4,570	2,719	4,083	6,586	4,617	5,137	7,796	6,564	7,405	---	1,000
20.2 Epidemic-related pneumonia and influenza deaths among people 65 years and over (per 100,000)	1979-87	1/19.9	2/22.6	3/18.6	4/20.0	5/15.7	6/21.0	7/19.2	8/17.3	---	---	---	15.9
20.3* Viral hepatitis cases (per 100,000)													
Hepatitis B	1987	63.5	50.6	42.6	37.7	30.9	28.7	25.0	23.9	23.6	22.5	---	40.0
Hepatitis A	1987	33.0	37.9	29.0	27.2	28.2	30.9	36.4	31.1	33.9	25.8	---	16.1
Hepatitis C	1987	18.3	13.1	8.3	5.6	4.4	4.1	2.7	2.9	2.4	---	---	13.7
Hepatitis B (number of cases)													
a. Injecting drug users	1987	44,348	17,615	12,666	10,576	15,136	14,180	10,216	9,199	11,132	p/10,963	---	7,932
b. Heterosexually active people	1987	33,995	33,971	43,795	46,152	26,289	25,375	19,831	25,659	23,436	p/23,080	---	22,663
c. Men who have sex with men	1987	13,598	13,840	14,598	6,730	9,560	9,702	9,615	11,135	11,132	p/10,963	---	4,568
d. Children of Asians/Pacific Islanders	1987	10,817	8,807	7,514	6,730	5,576	5,224	4,207	4,440	4,347	4,281	---	1,500
e. Occupationally exposed workers	1987	3,090	1,258	2,576	1,923	727	506	407	391	383	377	---	623
f. Infants (chronic infections)	1987	6,012	3,003	2,235	2,464	2,464	1,682	1,682	1,682	1,046	1,046	---	1,111
g. Alaska Native (number of new carriers)	1987	15	15	15	15	1	0	0	0	0	0	---	1
Hepatitis B (cases per 100,000)													
h. Black	1992	52.8	...	...	...	57.0	52.3	45.3	41.5	39.5	32.4	---	40
Hepatitis A (cases per 100,000)													
i. Hispanic	1992	53.8	...	...	...	50.6	61.9	44.9	62.9	72.6	41.0	---	a/26.9
j. American Indian/Alaska Native	1992	256.0	...	...	...	192.7	363.7	240.7	142.3	69.4	30.0	---	128
Hepatitis C (cases per 100,000)													
k. Hispanic	1992	17.2	...	...	...	11.1	6.7	3.9	7.7	---	---	---	a/13.7
20.4 Tuberculosis new cases (per 100,000)	1988	9.1	10.3	10.4	10.5	9.8	9.4	8.7	8.0	7.4	6.8	---	3.5
a. Asians/Pacific Islander	1988	36.3	41.6	41.8	46.6	44.5	45.3	45.9	41.6	40.6	36.6	---	15.0
b. Black	1988	28.3	33.0	31.9	31.7	29.1	26.8	23.9	22.3	20.5	17.8	---	10.0
c. Hispanic	1988	18.3	21.4	22.8	22.4	20.6	19.5	18.0	16.0	14.4	13.6	---	5.0
d. American Indian/Alaska Native	1988	18.1	18.9	16.3	16.3	14.6	17.4	16.5	14.5	13.4	12.6	---	5.0
20.5 Surgical wound and nosocomial infections													
Device-associated nosocomial infection rates in ICU patients (per 1,000 device-days)													
Bloodstream Infections													
Medical/coronary ICUs	1986-90	6.9	...	---	6.5	5.9	5.4	5.7	5.7	5.9	5.8	5.0	6.2
Surgical/medical-surgical ICUs	1986-90	5.3	...	---	5.8	4.9	4.6	4.3	4.9	5.4	5.7	5.0	4.8
Pediatric ICUs	1986-90	11.4	...	---	7.9	8.3	8.0	7.8	7.5	7.8	7.8	6.4	10.3
Urinary Tract Infections													
Medical/coronary ICUs	1986-90	10.7	...	---	10.1	8.5	7.9	7.3	6.9	6.7	6.4	5.7	9.6
Surgical/medical-surgical ICUs	1986-90	7.6	...	---	6.3	5.9	5.8	4.9	5.1	4.9	5.2	5.4	6.8

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Pediatric ICUs Pneumonia	1986-90	5.8	...	---	5.4	5.1	5.2	5.9	4.9	4.9	5.3	4.1	5.2
Medical/coronary ICUs	1986-90	12.8	...	---	9.0	9.5	8.6	10.1	9.2	7.5	6.4	6.6	11.5
Surgical/medical-surgical ICUs	1986-90	17.6	...	---	15.1	14.1	13.6	12.9	12.7	13.7	13.4	12.7	15.8
Pediatric ICUs	1986-90	4.7	...	---	6.7	5.8	5.7	5.5	5.3	5.5	5.3	3.9	4.2

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Surgical wound infection rates (per 100 operations)													
Low-risk patients	1986-90	1.1	...	---	1.2	1.2	1.1	1.2	1.0	1.6	1.7	1.4	1.0
Medium-low risk patients	1986-90	3.2	...	---	3.2	3.2	3.1	3.4	3.2	2.7	2.7	2.3	2.9
Medium-high risk patients	1986-90	6.3	...	---	6.4	5.8	6.1	5.9	5.8	4.6	4.1	3.9	5.7
High-risk patients	1986-90	14.4	...	---	12.1	11.0	11.0	10.1	10.3	6.4	7.3	5.7	13.0
20.6 Illness among international travelers (number of cases)													
Typhoid fever	1987	280	386	351	299	308	309	258	352	279	306	---	140
Hepatitis A	1987	4,475	3,962	3,814	3,814	4,581	6,602	7,815	6,331	6,575	6,411	---	1,119
Malaria	1987	932	1,098	1,046	910	1,275	1,014	1,167	1,392	1,544	---	---	750
20.7 Bacterial meningitis cases (per 100,000)													
a. Alaska Native	1987	33	---	17	---	---	---	---	0.7	---	---	---	8
20.8 Infectious diarrhea among children in child care centers													
Children 0-5 years	1991	32%	...	...	---	---	---	---	---	---	---	---	24%
Children 0-3 years	1991	38%	...	...	---	---	---	---	---	---	---	---	28%
20.9 Ear infections among children 4 years and under (restricted activity days per 100 children)													
	1987	135.4	125.0	155.7	155.2	196.3	137.0	134.4	103.4	---	---	---	105.0
20.10 Pneumonia-related restricted activity days (per 100 people)													
People 65 years and over	1987	19.1	46.2	78.5	63.5	45.1	71.3	58.8	80.7	---	---	---	15.1
Children 4 years and under	1987	29.4	51.3	10/24.1	10/19.4	10/22.5	39.5	10/23.2	10/17.1	---	---	---	24.0
20.11 Immunization (percent immunized)													
Basic immunization series among children													
Children 2 years and under	1985	11,12/54-64%	---	---	---	---	---	---	---	---	---	---	90%
Children 19-35 months													
Diphtheria-tetanus-pertussis (3 or more doses)	...	---	---	69%	83%	88%	90%	95%	95%	95%	96%	---	...
Polio (3 or more doses)	...	---	---	53%	72%	79%	79%	88%	91%	91%	91%	---	...
Measles-containing	...	---	---	82%	83%	84%	90%	90%	91%	91%	92%	---	...
Haemophilus influenzae b (3 or more doses)	...	---	---	2%	28%	55%	75%	92%	92%	93%	93%	---	...
Hepatitis B (3 or more doses)	...	---	---	---	---	16%	34%	68%	82%	84%	87%	---	...
4DTP/3polio/IMMR	...	---	---	---	55%	67%	68%	76%	78%	78%	81%	---	...
Children in licensed child care facilities/11,12	1987-88	13/94-95%	14/94-96%	15/94-96%	16/94-96%	17/95-98%	18/97-98%	19/98-99%	20/95%	---	---	---	95%
Children in kindergarten through post-secondary education institutions/11,12	1987-88	13/97-98%	14/97-98%	15/96-98%	16/96-98%	17/92-94%	18/93-94%	19/94-95%	20/98-99%	---	---	---	95%
Hepatitis B immunizations													
Infants of antigen-positive mothers	1991	40%	...	...	71%	71%	78%	78%	79%	82%	---	---	90%
Occupationally-exposed workers/21	1989	37%	---	---	50%	---	67%	---	---	---	---	---	90%
Injecting drug users in drug treatment programs	...	---	---	---	---	---	---	---	---	---	---	---	50%
Men who have sex with men	1992-93	3%	...	...	...	...	...	...	...	22/9%	---	---	50%
Pneumococcal immunizations													
Institutionalized chronically ill people or older people	1995	23/22%	---	---	---	---	---	---	---	---	---	---	80%
Non-institutionalized people 65 years and over	1989	a/15%	---	21%	---	28%	30%	34%	---	43%	---	---	60%
a. Black 65 years and over	1989	a/6%	---	14%	---	14%	15%	23%	---	22%	---	---	60%
b. Hispanic 65 years and over	1989	a/11%	---	12%	---	12%	14%	23%	---	23%	---	---	60%
Influenza immunizations (in last 12 months)													
Institutionalized chronically ill people or older people	1995	24/61%	---	---	---	---	---	---	---	---	---	---	80%
Non-institutionalized people 65 years and over	1989	a/33%	---	42%	---	52%	55%	58%	---	64%	---	---	60%
a. Black 65 years and over	1989	a/20%	---	27%	---	33%	39%	40%	---	45%	---	---	60%
b. Hispanic 65 years and over	1989	a/28%	---	---	---	47%	38%	50%	---	53%	---	---	60%
20.12 Post exposure rabies treatments (number)													
	1987	18,000	---	18,800	24,700	25,000 - 43,000	22,000 - 43,000	---	16,000 - 39,000	20,000 - 40,000	---	---	9,000
20.13 Immunization laws (number of States)/25													
	1989	10-49	---	---	34-50	---	---	26/42-50	---	27/44-50	---	---	50

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20.17 Local health department programs that identify tuberculosis cases	1992-93	80%	---	---	---	---	---	---	90%
20.18 Preventive therapy for tuberculosis (percent of infected people completing therapy)	1987	66.3%	63.0%	64.9%	66.3%	65.3%	65%	65.40%	65.20%	62.20%	---	---	85%
20.19 Laboratory capability for influenza diagnosis													
Tertiary care hospital laboratories	1993	52%	...	...	...	...	---	57%	---	58%	---	64%	85%
Secondary care hospital laboratories	1993	45%	...	...	...	...	---	46%	---	46%	---	51%	50%
Health maintenance organization laboratories	1993	a/68%	...	...	...	...	---	56%	---	68%	---	67%	50%

---/Data not available.

.../Category not applicable.

a/Baseline and/or target have been revised.

p/Preliminary data.

1/1979-80 influenza season through 1986-87 influenza season.

2/1987-88 influenza season through 1989-90 influenza season.

3/1988-89 influenza season through 1990-91 influenza season.

4/1989-90 influenza season through 1991-92 influenza season.

5/1990-91 influenza season through 1992-93 influenza season.

6/1991-92 influenza season through 1993-94 influenza season.

7/1992-93 influenza season through 1994-95 influenza season.

8/1993-94 influenza season through 1995-96 influenza season.

9/1989 data.

10/Data are unreliable. Numerator has a relative standard error of more than 30%.

11/Range of antigen-specific immunization levels.

12/Three or more doses for DTP and polio.

13/1987-88 school year.

14/1989-90 school year.

15/1990-91 school year.

16/1991-92 school year.

17/1992-93 school year.

18/1993-94 school year.

19/1994-95 school year.

20/1995-96 school year.

21/Health care workers only.

22/1994-98 data.

23/43% of nursing home residents surveyed had unknown pneumococcal vaccination status and were counted as unvaccinated.

24/21% of nursing home residents surveyed had unknown influenza vaccination status and were counted as unvaccinated.

25/The number of states with Hepatitis B immunization laws was 2 in 1994-95 and 9 in 1998-99

26/1992-93 data.

27/1996-97 data.

28/1997-98 data.

29/Response rate for this group was too low to produce reliable estimates.

NOTE: Data include revisions and, therefore, may differ from those previously published in these reports and other publications.

Data sources:

Objective number	Data source
20.1	National Notifiable Disease Surveillance System, CDC, EPO.

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20.2		CDC, NCID.											
20.3*, 20.3a-c, i-k		National Vital Statistics System, CDC, NCHS.											
		National Notifiable Disease Surveillance System, CDC, EPO.											
		Sentinel Counties Surveillance of Acute Viral Hepatitis, Viral Hepatitis Surveillance Program, CDC, NCID.											
20.3d		CDC, NCID.											
20.3e		National Notifiable Disease Surveillance System, CDC, EPO.											
		Sentinel Counties Surveillance of Acute Viral Hepatitis, Viral Hepatitis Surveillance Program, CDC, NCID.											
20.3f		National Notifiable Disease Surveillance System, CDC, EPO.											
		Margolis, HS. Estimates and reported cases of hepatitis B infection and its sequelae in Alaskan Natives. <i>Lancet</i> (1987) 2: 1134-6.											
20.3g		Alaskan Registry, IHS.											
20.3h		National Notifiable Disease Surveillance System, CDC, EPO.											
20.4, 20.4a-d		Tuberculosis Morbidity Data, CDC, NCHSTP.											
20.5		National Nosocomial Infection Surveillance System, CDC, NCID.											
20.6		Typhoid Surveillance System, CDC, NCID.											
		Sentinel Counties Surveillance of Acute Viral Hepatitis, Viral Hepatitis Surveillance Program, CDC, NCID; National Notifiable Disease Surveillance System, CDC, EPO.											
		Malaria Surveillance System, CDC, NCID.											
20.7		Bacterial Meningitis Surveillance System, CDC, NCID.											
20.7a		Arctic Investigations Laboratory, CDC, NCID.											
20.8		National Health Interview Survey, CDC, NCHS.											
20.9		National Health Interview Survey, CDC, NCHS.											
20.10		National Health Interview Survey, CDC, NCHS.											
20.11		Basic immunization series among children:											
		Baseline for children 2 years and under: United States Immunization Survey, CDC, NCHSTP.											
		Children 19-35 months: 1991-1994 data: National Health Interview Survey, CDC, NCHS.											
		1995-96 data: National Immunization Survey, CDC, NIP.											
		Immunizations among children in licensed child care facilities and in schools:											
		State Immunization Survey, CDC, NCHSTP.											
		Hepatitis B immunizations among infants of antigen-positive women:											
		Perinatal Hepatitis B Prevention Program, CDC, NIP.											
		Hepatitis B immunizations among occupationally exposed workers:											
		Baseline: Regulatory Impact Analysis of OSHA Final Rule on Occupational Exposure to Bloodborne Pathogens, DOL, OSHA, ORA.											
		Updates: CDC, NCID.											
		Hepatitis B immunizations among men who have sex with men:											
		Baseline: Young Men's Survey, San Francisco Department of Public Health. <i>MMWR</i> Vol. 45 No.10: March 15, 1996.											
		Update: Young Men's Survey, CDC, NCHSTP.											
		Pneumococcal and influenza immunizations among non-institutionalized people:											
		National Health Interview Survey, CDC, NCHS.											
		Pneumococcal and influenza immunizations among institutionalized people:											
		National Nursing Home Survey, CDC, NCHS.											
20.11a, b		National Health Interview Survey, CDC, NCHS.											
20.12		Rabies Vaccine and Immune Globulin Manufacturers Sales Data, CDC, NCID.											
20.13		Survey of Immunization Laws, CDC, NIP.											
20.14		Baseline: Primary Care Provider Surveys, OPHS, ODPHP.											
		Update: Prevention in Primary Care Study, American College of Preventive Medicine.											
20.15		Health Insurance Association of America Employer Survey, Health Insurance Association of America.											
20.16		Baseline: Immunization Grant Program Profiles, CDC, NCPS.											
		Update: National Profile of Local Health Departments, National Association of County and City Health Officials.											
20.17		National Profile of Local Health Departments, National Association of County and City Health Officials.											
20.18		Tuberculosis Program Management Report Data on Completion of Preventive Therapy, CDC, NCHSTP.											
20.19		Survey of Laboratories using Rapid Viral Diagnosis of Influenza, CDC, NCID.											

*Duplicate objective. See full text of objective following this table.