

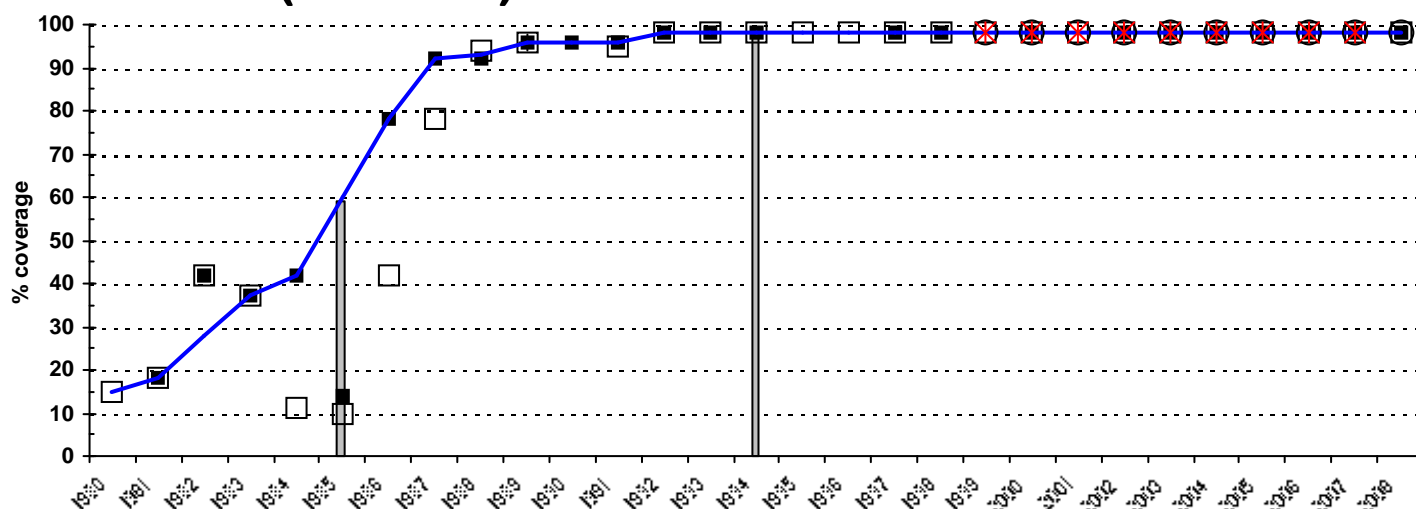
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

United Arab Emirates

July, 2009

United Arab Emirates

BCG (1980-2008)



Description of trend

Estimates based on reported data supported by surveys.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) | Reported to:* | | Government official estimate (%) | Reported doses administered (%)** | Survey data (%)*** | |
|------|-----------------------------------|---------------|---------------|---|--|---------------------------|-------------------------|
| | | WHO (%) | UNICEF (%) | | | Survey 12-23 months | Survey <12 months |
| 1980 | 15 | 15 | | | | | |
| 1981 | 18 | 18 | 18 | | | | |
| 1982 | 28 | 42 | 42 | | | | |
| 1983 | 37 | 37 | 37 | | | | |
| 1984 | 42 | 11 | 42 | | | | |
| 1985 | 60 | 10 | 14 | | | 59 | |
| 1986 | 78 | 42 | 78 | | | | |
| 1987 | 92 | 78 | 92 | | | | |
| 1988 | 93 | 94 | 92 | | | | |
| 1989 | 96 | 96 | 96 | | | | 96 |
| 1990 | 96 | | 96 | | | | |
| 1991 | 96 | 95 | 96 | | | | |
| 1992 | 98 | 98 | 98 | | | | |
| 1993 | 98 | 98 | 98 | | | | |
| 1994 | 98 | 98 | 98 | | | 97 | |
| 1995 | 98 | 98 | | | | | |
| 1996 | 98 | 98 | | | | | |
| 1997 | 98 | 98 | 98 | | | | |
| 1998 | 98 | 98 | 98 | | | | |
| 1999 | 98 | 98 | | 98 | 98 | | |
| 2000 | 98 | 98 | 98 | 98 | 98 | | |
| 2001 | 98 | 98 | | 98 | 98 | | |
| 2002 | 98 | 98 | 98 | 98 | 98 | | |
| 2003 | 98 | 98 | 98 | 98 | 98 | | |
| 2004 | 98 | 98 | 98 | 98 | 98 | | |
| 2005 | 98 | 98 | 98 | 98 | 98 | | |
| 2006 | 98 | 98 | 98 | 98 | 98 | | |
| 2007 | 98 | 98 | 98 | 98 | 98 | | |
| 2008 | 98 | 98 | 98 | 98 | | | |

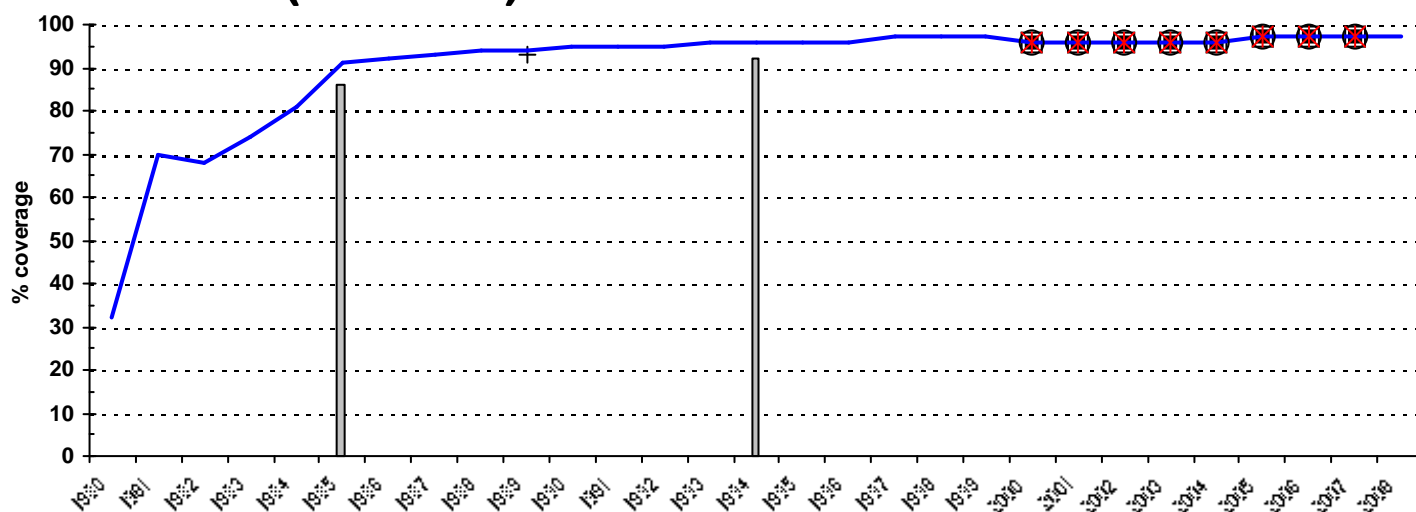
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

DTP1 (1980-2008)



Description of trend

WHO and UNICEF began requesting data on DTP1 coverage in 2001 and have received national reports reflecting DTP1 coverage from 2001 onward. The DTP1 estimates from 2000-2004 are based on these reports. For years prior to 2000 the estimates are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the levels of DTP3 coverage and the drop-out between DTP1 and DTP3. This relationship results from an analysis of 282 surveys conducted in 101 countries which were published between 1980 and 2004.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) | Reported to:* | | Government official estimate (%) | Reported doses administered (%)** | Survey data (%)*** | |
|------|-----------------------------------|---------------|---------------|---|--|---------------------------|-------------------------|
| | | WHO (%) | UNICEF (%) | | | Survey 12-23 months | Survey <12 months |
| 1980 | 32 | | | | | | |
| 1981 | 70 | | | | | | |
| 1982 | 68 | | | | | | |
| 1983 | 74 | | | | | | |
| 1984 | 81 | | | | | | |
| 1985 | 91 | | | | | 86 | |
| 1986 | 92 | | | | | | |
| 1987 | 93 | | | | | | |
| 1988 | 94 | | | | | | |
| 1989 | 94 | | | | | | 93 |
| 1990 | 95 | | | | | | |
| 1991 | 95 | | | | | | |
| 1992 | 95 | | | | | | |
| 1993 | 96 | | | | | | |
| 1994 | 96 | | | | | 92 | |
| 1995 | 96 | | | | | | |
| 1996 | 96 | | | | | | |
| 1997 | 97 | | | | | | |
| 1998 | 97 | | | | | | |
| 1999 | 97 | | | | | | |
| 2000 | 96 | 96 | 96 | 96 | 96 | | |
| 2001 | 96 | 96 | 96 | 96 | 96 | | |
| 2002 | 96 | 96 | 96 | 96 | 96 | | |
| 2003 | 96 | 96 | 96 | 96 | 96 | | |
| 2004 | 96 | 96 | 96 | 96 | 96 | | |
| 2005 | 97 | 97 | 97 | 97 | 97 | | |
| 2006 | 97 | 97 | 97 | 97 | 97 | | |
| 2007 | 97 | 97 | 97 | 97 | 97 | | |
| 2008 | 97 | | | | | | |

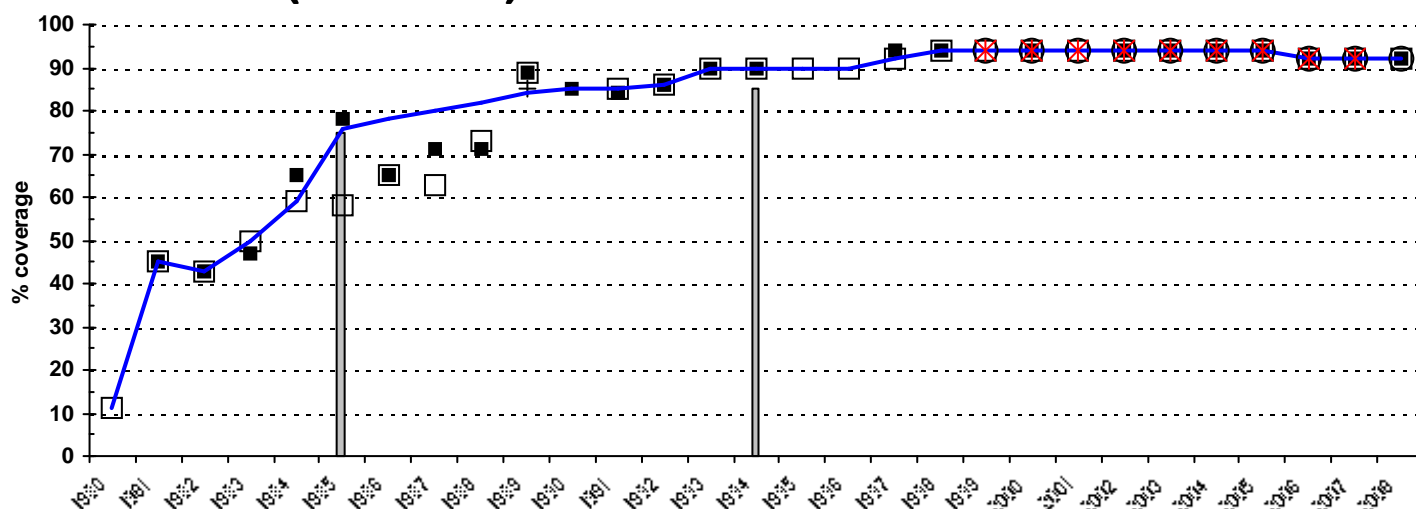
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

DTP3 (1980-2008)



Description of trend

Estimates based on reported data supported by surveys.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) | Reported to:* | | Government official estimate (%) | Reported doses administered (%)** | Survey data (%)*** | |
|------|-----------------------------------|---------------|---------------|---|--|---------------------------|-------------------------|
| | | WHO (%) | UNICEF (%) | | | Survey 12-23 months | Survey <12 months |
| 1980 | 11 | 11 | | | | | |
| 1981 | 45 | 45 | 45 | | | | |
| 1982 | 43 | 43 | 43 | | | | |
| 1983 | 50 | 50 | 47 | | | | |
| 1984 | 59 | 59 | 65 | | | | |
| 1985 | 76 | 58 | 78 | | | 75 | |
| 1986 | 78 | 65 | 65 | | | | |
| 1987 | 80 | 63 | 71 | | | | |
| 1988 | 82 | 73 | 71 | | | | |
| 1989 | 84 | 89 | 89 | | | | 85 |
| 1990 | 85 | 85 | 85 | | | | |
| 1991 | 85 | 85 | 84 | | | | |
| 1992 | 86 | 86 | 86 | | | | |
| 1993 | 90 | 90 | 90 | | | | |
| 1994 | 90 | 90 | 90 | | | 85 | |
| 1995 | 90 | 90 | | | | | |
| 1996 | 90 | 90 | | | | | |
| 1997 | 92 | 92 | 94 | | | | |
| 1998 | 94 | 94 | 94 | | | | |
| 1999 | 94 | 94 | | 94 | 94 | | |
| 2000 | 94 | 94 | 94 | 94 | 94 | | |
| 2001 | 94 | 94 | | 94 | 94 | | |
| 2002 | 94 | 94 | 94 | 94 | 94 | | |
| 2003 | 94 | 94 | 94 | 94 | 94 | | |
| 2004 | 94 | 94 | 94 | 94 | 94 | | |
| 2005 | 94 | 94 | 94 | 94 | 94 | | |
| 2006 | 92 | 92 | 92 | 92 | 92 | | |
| 2007 | 92 | 92 | 92 | 92 | 92 | | |
| 2008 | 92 | 92 | 92 | 92 | | | |

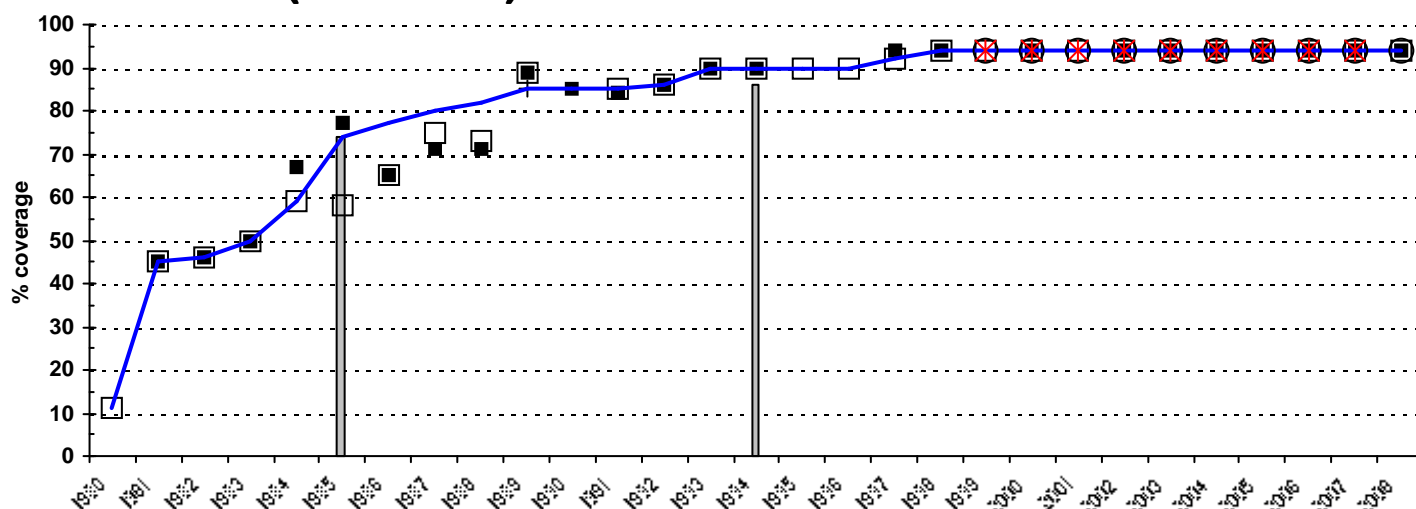
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

Pol3 (1980-2008)



Description of trend

Estimates based on reported data supported by surveys.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) — | Reported to:* | | Government official estimate (%) ○ | Reported doses administered (%)** ✕ | Survey data (%)*** | |
|------|--|---------------------|------------------------|--|---|------------------------------------|----------------------------------|
| | | WHO (%) □ | UNICEF (%) ■ | | | Survey 12-23 months ▮ | Survey <12 months + |
| 1980 | 11 | 11 | | | | | |
| 1981 | 45 | 45 | 45 | | | | |
| 1982 | 46 | 46 | 46 | | | | |
| 1983 | 50 | 50 | 50 | | | | |
| 1984 | 59 | 59 | 67 | | | | |
| 1985 | 74 | 58 | 77 | | | 74 | |
| 1986 | 77 | 65 | 65 | | | | |
| 1987 | 80 | 75 | 71 | | | | |
| 1988 | 82 | 73 | 71 | | | | |
| 1989 | 85 | 89 | 89 | | | | 85 |
| 1990 | 85 | 85 | 85 | | | | |
| 1991 | 85 | 85 | 84 | | | | |
| 1992 | 86 | 86 | 86 | | | | |
| 1993 | 90 | 90 | 90 | | | | |
| 1994 | 90 | 90 | 90 | | | 86 | |
| 1995 | 90 | 90 | | | | | |
| 1996 | 90 | 90 | | | | | |
| 1997 | 92 | 92 | 94 | | | | |
| 1998 | 94 | 94 | 94 | | | | |
| 1999 | 94 | 94 | | 94 | 94 | | |
| 2000 | 94 | 94 | 94 | 94 | 94 | | |
| 2001 | 94 | 94 | | 94 | 94 | | |
| 2002 | 94 | 94 | 94 | 94 | 94 | | |
| 2003 | 94 | 94 | 94 | 94 | 94 | | |
| 2004 | 94 | 94 | 94 | 94 | 94 | | |
| 2005 | 94 | 94 | 94 | 94 | 94 | | |
| 2006 | 94 | 94 | 94 | 94 | 94 | | |
| 2007 | 94 | 94 | 94 | 94 | 94 | | |
| 2008 | 94 | 94 | 94 | 94 | | | |

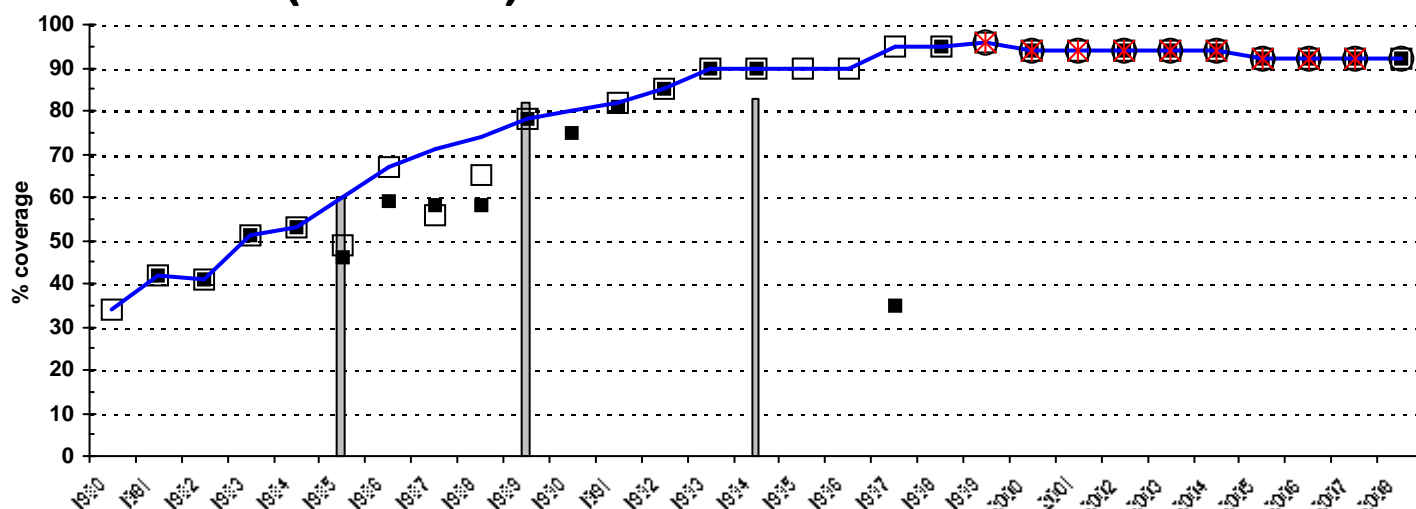
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

MCV (1980-2008)



Description of trend

Estimates based on reported data supported by surveys.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) | Reported to:* | | Government official estimate (%) | Reported doses administered (%)** | Survey data (%)*** | |
|------|-----------------------------------|---------------|---------------|---|--|---------------------------|-------------------------|
| | | WHO (%) | UNICEF (%) | | | Survey 12-23 months | Survey <12 months |
| 1980 | 34 | 34 | | | | | |
| 1981 | 42 | 42 | 42 | | | | |
| 1982 | 41 | 41 | 41 | | | | |
| 1983 | 51 | 51 | 51 | | | | |
| 1984 | 53 | 53 | 53 | | | | |
| 1985 | 60 | 49 | 46 | | | 60 | |
| 1986 | 67 | 67 | 59 | | | | |
| 1987 | 71 | 56 | 58 | | | | |
| 1988 | 74 | 65 | 58 | | | | |
| 1989 | 78 | 78 | 78 | | | 82 | |
| 1990 | 80 | | 75 | | | | |
| 1991 | 82 | 82 | 81 | | | | |
| 1992 | 85 | 85 | 85 | | | | |
| 1993 | 90 | 90 | 90 | | | | |
| 1994 | 90 | 90 | 90 | | | 83 | |
| 1995 | 90 | 90 | | | | | |
| 1996 | 90 | 90 | | | | | |
| 1997 | 95 | 95 | 35 | | | | |
| 1998 | 95 | 95 | 95 | | | | |
| 1999 | 96 | 96 | | 96 | 96 | | |
| 2000 | 94 | 94 | 94 | 94 | 94 | | |
| 2001 | 94 | 94 | | 94 | 94 | | |
| 2002 | 94 | 94 | 94 | 94 | 94 | | |
| 2003 | 94 | 94 | 94 | 94 | 94 | | |
| 2004 | 94 | 94 | 94 | 94 | 94 | | |
| 2005 | 92 | 92 | 92 | 92 | 92 | | |
| 2006 | 92 | 92 | 92 | 92 | 92 | | |
| 2007 | 92 | 92 | 92 | 92 | 92 | | |
| 2008 | 92 | 92 | 92 | 92 | | | |

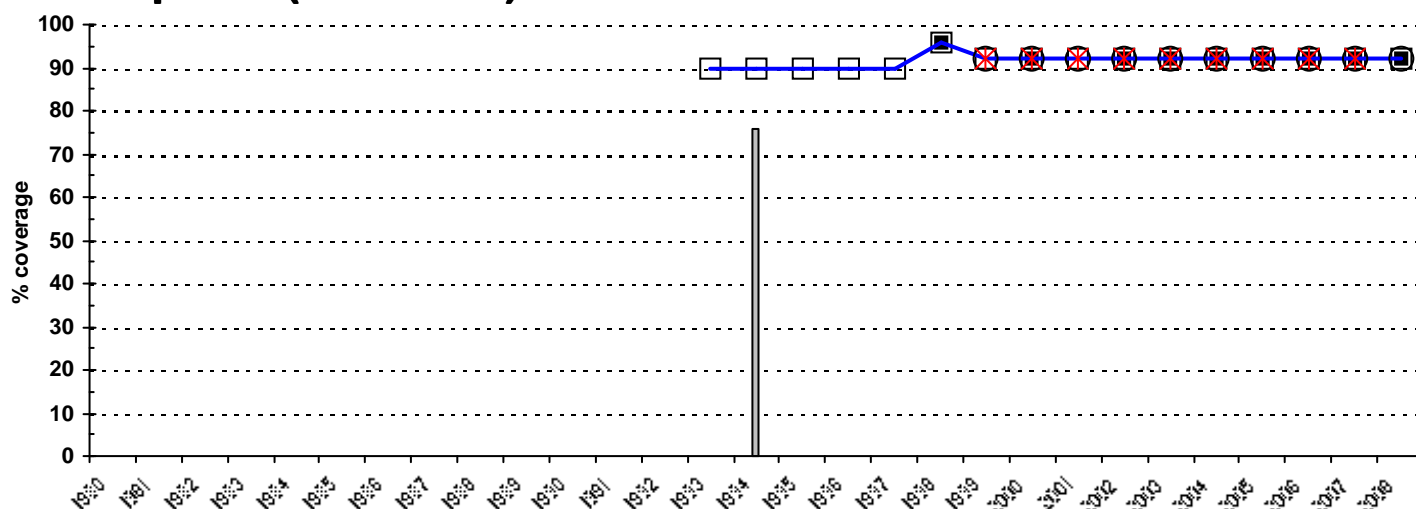
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

HepB3 (1980-2008)



Description of trend

The Hepatitis vaccine was introduced in the early 1990s. Coverage rates for Hepatitis are at 90% between 1993 and 1997. Survey data report slightly lower coverage (The United Arab Emirates Family Health Survey 1995).

Data presented in chart

| Year | WHO/ UNICEF estimate (%) | Reported to:* | | Government official estimate (%) | Reported doses administered (%)** | Survey data (%)*** | |
|------|-----------------------------------|---------------|---------------|---|--|---------------------------|-------------------------|
| | | WHO (%) | UNICEF (%) | | | Survey 12-23 months | Survey <12 months |
| 1980 | | | | | | | |
| 1981 | | | | | | | |
| 1982 | | | | | | | |
| 1983 | | | | | | | |
| 1984 | | | | | | | |
| 1985 | | | | | | | |
| 1986 | | | | | | | |
| 1987 | | | | | | | |
| 1988 | | | | | | | |
| 1989 | | | | | | | |
| 1990 | | | | | | | |
| 1991 | | | | | | | |
| 1992 | | | | | | | |
| 1993 | 90 | 90 | | | | | |
| 1994 | 90 | 90 | | | | 76 | |
| 1995 | 90 | 90 | | | | | |
| 1996 | 90 | 90 | | | | | |
| 1997 | 90 | 90 | | | | | |
| 1998 | 96 | 96 | 96 | | | | |
| 1999 | 92 | 92 | | 92 | 92 | | |
| 2000 | 92 | 92 | 92 | 92 | 92 | | |
| 2001 | 92 | 92 | | 92 | 92 | | |
| 2002 | 92 | 92 | 92 | 92 | 92 | | |
| 2003 | 92 | 92 | 92 | 92 | 92 | | |
| 2004 | 92 | 92 | 92 | 92 | 92 | | |
| 2005 | 92 | 92 | 92 | 92 | 92 | | |
| 2006 | 92 | 92 | 92 | 92 | 92 | | |
| 2007 | 92 | 92 | 92 | 92 | 92 | | |
| 2008 | 92 | 92 | 92 | 92 | | | |

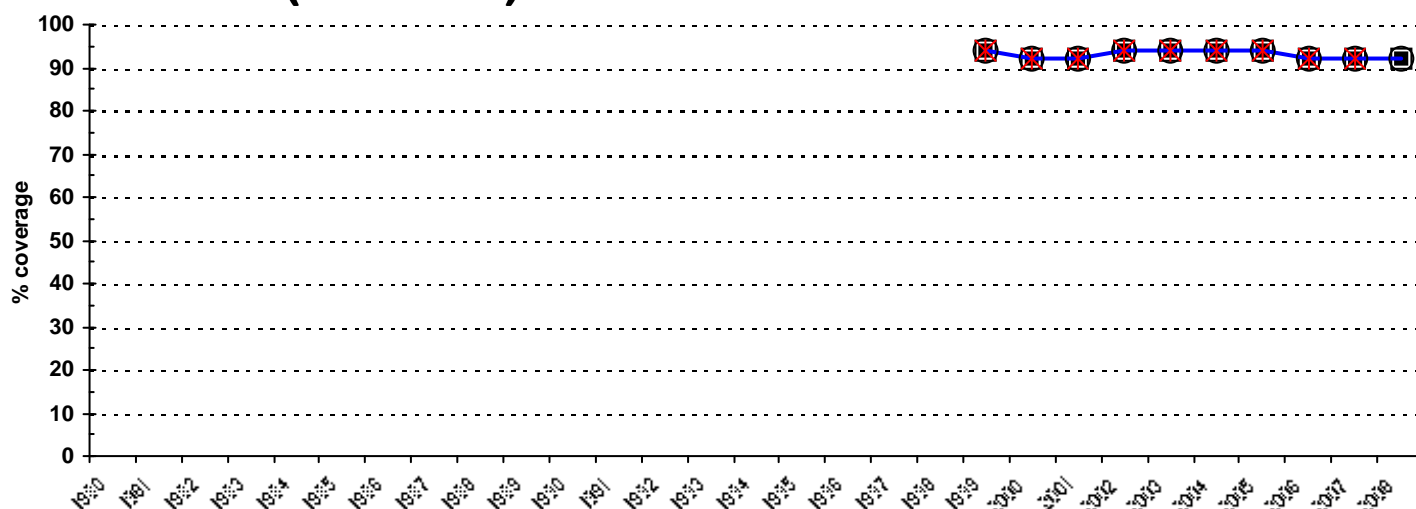
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

Hib3 (1980-2008)



Description of trend

Monovalent Hib vaccine was introduced in 1999.

Data presented in chart

| Year | WHO/ UNICEF estimate (%) — | Reported to:* | | Government official estimate (%) ○ | Reported doses administered (%)** ✕ | Survey data (%)*** | |
|------|--|---------------------|------------------------|--|---|-----------------------------------|----------------------------------|
| | | WHO (%) □ | UNICEF (%) ■ | | | Survey 12-23 months | Survey <12 months + |
| 1980 | | | | | | | |
| 1981 | | | | | | | |
| 1982 | | | | | | | |
| 1983 | | | | | | | |
| 1984 | | | | | | | |
| 1985 | | | | | | | |
| 1986 | | | | | | | |
| 1987 | | | | | | | |
| 1988 | | | | | | | |
| 1989 | | | | | | | |
| 1990 | | | | | | | |
| 1991 | | | | | | | |
| 1992 | | | | | | | |
| 1993 | | | | | | | |
| 1994 | | | | | | | |
| 1995 | | | | | | | |
| 1996 | | | | | | | |
| 1997 | | | | | | | |
| 1998 | | | | | | | |
| 1999 | 94 | 94 | 94 | 94 | 94 | | |
| 2000 | 92 | 92 | 92 | 92 | 92 | | |
| 2001 | 92 | 92 | 92 | 92 | 92 | | |
| 2002 | 94 | 94 | 94 | 94 | 94 | | |
| 2003 | 94 | 94 | 94 | 94 | 94 | | |
| 2004 | 94 | 94 | 94 | 94 | 94 | | |
| 2005 | 94 | 94 | 94 | 94 | 94 | | |
| 2006 | 92 | 92 | 92 | 92 | 92 | | |
| 2007 | 92 | 92 | 92 | 92 | 92 | | |
| 2008 | 92 | 92 | 92 | 92 | | | |

*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

United Arab Emirates

Details Survey Data

Year Source

| Antigen | Confirmation method | % coverage | Compliance with schedule | Age group | Sample size | % cards seen | Survey year | Comments |
|---|---------------------|------------|--------------------------|-----------|-------------|--------------|-------------|------------------------|
| 1994 United Arab Emirates Family Health Survey 1995, 2000 | | | | | | | | |
| BCG | Card or History | 97.1 | | 12-23 m | 1258 | 72.4 | 1995 | |
| DTP1 | Card or History | 92.5 | | 12-23 m | 1258 | 72.4 | 1995 | |
| DTP3 | Card or History | 85.2 | | 12-23 m | 1258 | 72.4 | 1995 | |
| Pol3 | Card or History | 85.9 | | 12-23 m | 1258 | 72.4 | 1995 | |
| MCV | Card or History | 83.2 | | 12-23 m | 1258 | 72.4 | 1995 | |
| HepB | Card or History | 76 | | 12-23 m | 1258 | 72.4 | 1995 | |
| 1989 Survey of Immunization Coverage and the EPI Information System 1990, 1991 | | | | | | | | |
| BCG | C or H <12 month | 96 | | 12-23 m | | | 1990 | W.A. |
| DTP1 | C or H <12 month | 93 | | 12-23 m | | | 1990 | W.A. |
| DTP3 | C or H <12 month | 85 | | 12-23 m | | | 1990 | W.A. |
| Pol3 | C or H <12 month | 85 | | 12-23 m | | | 1990 | W.A. |
| MCV | Card or History | 82 | | 12-23 m | | | 1990 | before 18 months, W.A. |
| 1985 The 1986 Review of the EPI in the United Arab Emirates | | | | | | | | |
| BCG | Card or History | 59 | | 12-23 m | 421 | 75 | 1986 | Weighted average |
| DTP1 | Card or History | 86 | | 12-23 m | 421 | 75 | 1986 | Weighted average |
| DTP3 | Card or History | 75 | | 12-23 m | 421 | 75 | 1986 | Weighted average |
| Pol3 | Card or History | 74 | | 12-23 m | 421 | 75 | 1986 | Weighted average |
| MCV | Card or History | 60 | | 12-23 m | 421 | 75 | 1986 | Weighted average |

