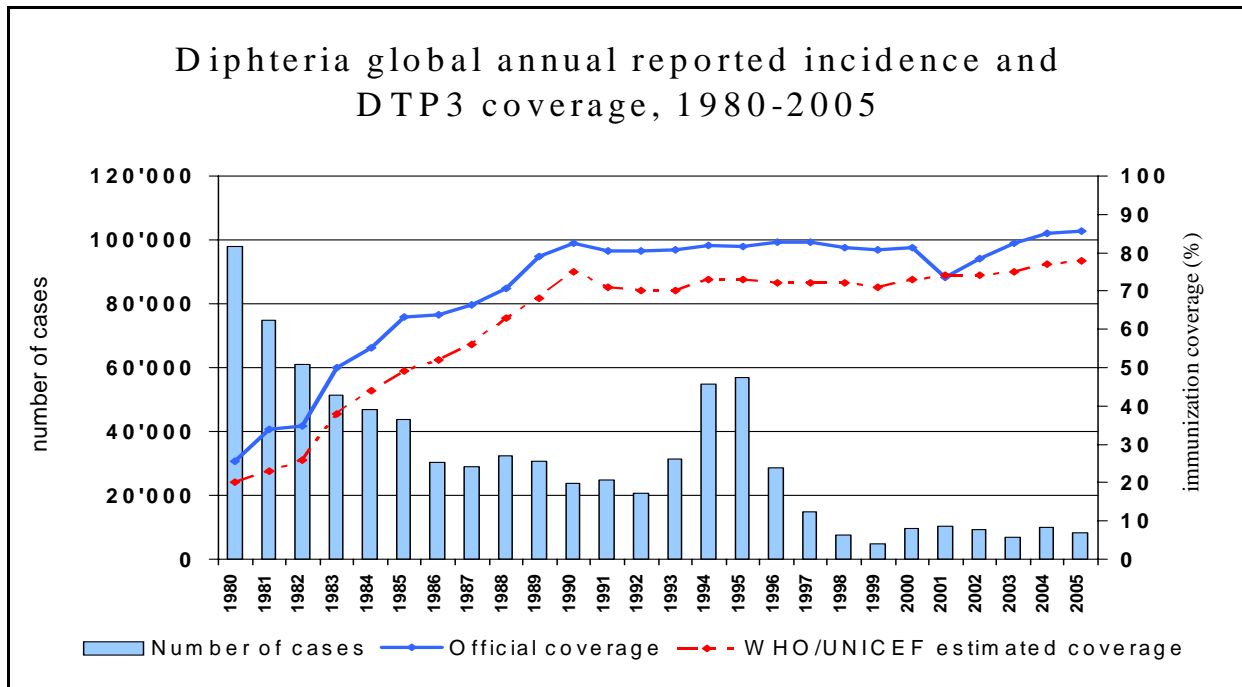


Diphtheria



The data in the graph and the tables on the next pages represent global and regional summaries using official data reported from Member States to WHO and WHO-UNICEF estimated coverage (estimation methods description starts on page 6). In all, 192 Member States are expected to report. The table shows the number of countries providing data to WHO (labelled "N° countries", which includes countries reporting zero case) and the proportion of the world's population represented by the reporting countries (labelled "% population"). Imputation procedures described above were used to complete missing reported coverage values. DTP3 coverage increased during the 1980s because increasing numbers of countries established national immunization services and also increased coverage. It peaked in 1990 as a result of the push to achieve Universal Childhood Immunization through routine services and through campaigns. Reported coverage remained high during the 1990s. The drop at global level observed from 2000 to 2001 was mainly the result of a change in the methodology used to produce official national estimates in two countries: India and China which, because of the size of the infant population, had a significant impact on the global figure. The decline was less pronounced in the WHO-UNICEF estimates and the two figures converged. The reported figures and the WHO-UNICEF estimates differ again from 2002. This is mainly because of China and India where the official estimates are higher. From 2003 to 2004, a number of regions have improved their coverage including AFR and EMR. DTP3 coverage data are used to reflect the proportion of children protected against diphtheria, pertussis and tetanus, and to indicate performance of immunization services and the health system in general. DTP3 figures are also compared with DTP1 to assess "drop-out" rates – an indicator of the quality of services and managerial capacity. The country profiles also show district achievements (% of districts achieving various levels of DTP3 coverage).

Diphtheria incidence is affected by DTP3 coverage and booster doses using DT and Td (see immunization schedules in the country profiles). The decline in reported diphtheria cases in the 1980s is consistent with the reported increasing DTP3 coverage. The sudden increase in incidence during the 1990s is due to a massive epidemic in countries of the former Soviet Union. Since 1990, outbreaks were also reported from Algeria, Iraq, Lao People's Republic, Mongolia, Papua New Guinea, Sudan, and Thailand. Reported data on diphtheria incidence should be interpreted with caution due to variations in case definitions used and performance of surveillance systems. The apparent rise in cases in Nepal in the mid-1990s is due to surveillance changes. The decrease in AFR is mainly due to Guinea (from 134 in 2003 to 8 reported in 2004).

World-wide annual deaths from diphtheria (2002) were estimated by WHO at 5'000, out of which 4'000 occurred among children under five.



Regional and global summaries of diphtheria incidence (number of reported cases): 1980, 1990, 1996-2005.

	1980	1990	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AFR	8'771	2'588	2'282	117	931	226	4'038	2'587	941	216	23	54
AMR	5'833	826	222	94	278	122	113	70	170	49	181	263
EMR	19'970	3'604	522	423	399	494	175	96	924	287	145	251
EUR	618	3'202	20'414	7'179	2'779	1'614	1'585	1'386	1'189	897	688	500
SEAR	47'354	11'582	4'671	6'549	2'091	2'170	3'439	5'674	5'754	4'596	8'669	6'402
WPR	15'228	2'062	511	405	963	184	244	543	257	736	158	759
Global	97'774	23'864	28'622	14'767	7'441	4'810	9'594	10'356	9'235	6'781	9'864	8'229
N° countries	156	165	156	163	152	149	152	154	157	152	159	162

Regional and global summaries of reported, and WHO/UNICEF estimates of, vaccination coverage (%), DTP3 < 1 year of age: 1980, 1990, 1996-2005.

	1980	1990	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AFR	6	55	51	52	48	51	56	56	61	65	68	72
	5	57	51	50	49	46	54	54	57	61	64	67
AMR	50	76	87	87	89	91	91	91	91	93	93	94
	50	74	85	86	88	90	89	90	91	92	92	92
EMR	22	80	80	79	80	82	80	80	77	78	79	86
	18	71	66	69	71	72	73	75	76	77	78	82
EUR	26	79	91	91	90	92	92	93	93	92	94	95
	63	78	89	91	92	93	93	94	93	91	93	95
SEAR	38	94	92	93	88	89	89	67	72	82	86	88
	7	70	69	67	65	62	64	66	65	65	66	66
WPR	11	93	94	93	94	85	85	78	93	94	96	87
	9	93	84	83	85	84	85	86	85	87	87	87
Global	26	83	83	83	81	81	81	74	78	83	85	86
	20	75	72	72	72	71	73	74	74	75	77	78
% population	53	95	99	98	95	90	98	95	95	95	99	95
N° countries	95	157	179	182	168	168	175	177	174	177	182	183