

## PUBLIC HEALTH

Notifiable Communicable Diseases (Reported Cases) 1999-2003	Table 6.1, page 6-3	الأمراض المعدية المبلغ عنها 2003-1999
Notifiable Communicable Diseases Rates 1999-2003	Table 6.2, page 6-4	معدلات الأمراض المعدية 2003-1999
Immunization Coverage Among Infants and Children (1-6 years) 1999-2003	Table 6.3, page 6-5	نسبة التغطية بالتحصين للرضع والأطفال (1-6 سنوات) 2003-1999
Immunizations by Type and Place 2003	Table 6.4, page 6-6	التطعيمات حسب نوع التطعيم و المكان 2003
Immunization Coverage Among Children Under One Year 2003	Table 6.5, page 6-7	نسبة التغطية بالتحصين للأطفال في السنة الأولى من العمر 2003
Immunization Coverage Among Children (1-6 Years) and Pregnant Women 2003	Table 6.6, page 6-8	نسبة التغطية للأطفال (1-6 سنوات) والأمهات الحوامل 2003
Positive Tuberculin Test Among School Children (6-7 years) by Year	Table 6.7, page 6-9	معدل انتشار السلين الموجب بين أطفال المدارس (6-7 سنوات) حسب السنة
Selected Communicable Diseases Rates by Age Groups 2003	Table 6.8, page 6-10	معدلات الإصابة بالأمراض المعدية المختارة حسب فئات السن 2003
Selected Communicable Diseases by Age Groups 2003	Figure 6.1, page 6-11	معدلات الإصابة بالأمراض المعدية المختارة حسب فئات السن 2003
Selected Communicable Diseases Rates by Geographical Region 2003	Table 6.9, page 6-12	معدلات الإصابة بالأمراض المعدية المختارة حسب المنطقة الجغرافية 2003
Selected Communicable Diseases by Geographical Region 2003	Figure 6.2, page 6-13	معدلات الإصابة بالأمراض المعدية المختارة حسب المنطقة الجغرافية 2003
Water Supply Bacteriological and Chemical Test Results by Source 1999-2003	Table 6.10, page 6-14	نتائج الاختبارات الجرثومية والكيميائية لعينات المياه حسب المصدر 2003-1999
Mosquito Breeding Spots 1999-2003	Table 6.11, page 6-15	بؤر تكاثر البعوض 2003-1999
Malaria Cases by Country of Origin 2003	Table 6.12, page 6-16	حالات الملاريا حسب بلد المنشأ 2003
Serological Test Results (Selected) 2002-2003	Table 6.13, page 6-17	اختبارات مختارة للأصصال التي تم إجراؤها خلال 2003-2002
Road and Traffic Related Accidents by Seriousness of Injuries and Sex 1999-2003	Table 6.14, page 6-18	عدد السواق والركاب والمشاة المصابين حسب درجة خطورة الإصابة والنوع 2003-1999
Road and Traffic Related Accidents by Seriousness of Injuries and Sex 1999-2003	Figure 6.3, page 6-19	عدد السواق والركاب والمشاة المصابين حسب درجة خطورة الإصابة والنوع 2003-1999
Occupational Accidents and Deaths by Nationality and Division of Economic Activity 2003	Table 6.15, page 6-20	إصابات العمل والوفيات حسب الجنسية ونوع النشاط الاقتصادي 2003
Occupational Accidents and Deaths Rates by Nationality and Division of Economic Activity 1999-2003	Table 6.16, page 6-21	معدلات إصابات العمل والوفيات حسب الجنسية ونوع النشاط الاقتصادي 2003-1999
Occupational Accidents Rates 1999-2003	Figure 6.4, page 6-22	معدلات إصابات العمل 2003-1999



	<i>Disease</i>	2003	2002	2001	2000	1999	ICD-10 Code
I M M U N I Z A B L E	Typhoid fever	15	34	41	21	35	A01.0
	Pulmonary TB	132	128	110	160	98	A15-A16
	Non-pulmonary TB	109	66	49	54	46	A17-A19
	Diphtheria	-	-	-	-	-	( ) A36
	Whooping cough	-	-	-	-	-	( ) A37
	Neonatal tetanus	-	-	-	-	-	( ) A33
	Non-neonatal tetanus	1	-	-	-	-	A34-A35
	Meningococcal meningitis	-	-	3	1	1	A39.0
	Haemophilus Influenza (b) meningitis	-	-	-	3	2	G00.0
	Poliomyelitis	-	-	-	-	-	( ) A80
	Measles	12	8	5	6	38	B05
	Mumps	35	31	31	167	48	( ) B26
	Rubella	7	2	2	2	4	B06
	Chickenpox	2,579	2,469	1,684	1,998	1,385	( ) B01
Influenza	4,400	2,629	2,274	2,477	2,073	( ) J10-J11	
Yellow Fever (Jaundice)	-	-	-	-	-	( ) P58-P59	
Viral hepatitis: total	293	244	241	161	205	: B15-B19	
	A	236	206	179	143	184	
	B	21	18	21	18	19	
	C	14	-	-	-	2	
N O N - I D M M U N I Z E A B L E	Other meningitis	22	20	41	NA	NA	G02-G03
	Paratyphoid fever	44	37	40	59	48	A01.1
	Other salmonella infection	10	3	2	3	6	A02
	Acute Flaccid Paralysis	339	903	229	257	319	A02
	Shigellosis	2	3	7	2	4	G82.0
	Shigellosis	162	187	118	190	162	A03
	Food poisoning	156	123	121	58	58	A05
	Amoebiasis	13	10	4	13	29	A06
	Malaria (P.falciparum)	32	15	8	5	14	B50
	Malaria (P.vivax)	55	30	46	53	65	B51
	Syphilis	242	248	149	220	105	( ) A50-A53
	Gonococcal infection	488	417	238	235	193	( ) A54
	Streptococcal sore throat	775	190	183	146	150	A40
	Leprosy	12	6	7	2	6	A30
AIDS	11	17	7	8	8	B20-B24	

Note: Cause of death is based on (ICD-10) effective from 2003. (ICD-10 - ) :

	<i>Disease</i>	<i>%Change 02-03</i>	<i>2003</i>	<i>2002</i>	<i>2001</i>	<i>2000</i>	<i>1999</i>		<i>ICD-10 Code</i>
I M M U N I Z A B L E  D I S E A S E S	Typhoid fever	-57.0	2.2	5.1	6.3	3.0	5.3		A01.0
	Pulmonary TB	0.5	19.1	19.0	16.8	23.2	14.7		A15-A16
	Non-pulmonary TB	61.0	15.8	9.8	7.5	7.8	6.9		A17-A19
	Diphtheria	-	-	-	-	-	-	( )	A36
	Whooping cough	-	-	-	-	-	-	( )	A37
	Neonatal tetanus	-	-	-	-	-	-	( )	A33
	Non-neonatal tetanus	100	0.1	-	-	-	-		A34-A35
	Meningococcal meningitis	-	-	-	0.5	0.1	0.2		A39.0
	Haemophilus Influenza (b) meningitis	-	-	-	-	0.4	0.3		G00.0
	Poliomyelitis	-	-	-	-	-	-	( )	A80
	Measles	46.2	1.7	1.2	0.8	0.9	5.7		B05
	Mumps	10.1	5.1	4.6	4.7	24.2	7.2	( )	B26
	Rubella	241.2	1.0	0.3	0.3	0.3	0.6		B06
	Chickenpox	1.8	374.1	367.4	257.3	289.2	208.0	( )	B01
Influenza	63.2	638.2	391.2	347.4	358.6	311.0	( )	J10-J11	
Yellow Fever (Jaundice)	-	-	-	-	-	-	( )	P58-P59	
Viral hepatitis: total	17.1	42.5	36.3	36.8	23.3	30.8	:	B15-B19	
	A	11.9	34.2	30.6	27.3	20.7	27.6		
	B	13.7	3.0	2.7	3.2	2.6	2.9		
	C	100	2.0	-	-	-	0.3		
N O N - I D M S U E N A I S Z E A S B L E	Other meningitis	7.2	3.2	3.0	6.3	NA	NA		G02-G03
	Paratyphoid fever	15.9	6.4	5.5	6.1	8.5	7.2		A01.1
	Other salmonella infection	225.0	1.5	0.4	0.3	0.4	0.9		A02
	Acute Flaccid Paralysis	-63.4	49.2	134.4	35.0	37.2	47.9		A02
	Shigellosis	-35.0	0.3	0.4	1.1	0.3	2.0		G82.0
	Shigellosis	-15.5	23.5	27.8	18.0	27.5	24.3		A03
	Food poisoning	23.6	22.6	18.3	18.5	8.4	8.7		A05
	Amoebiasis	26.7	1.9	1.5	0.6	1.9	4.4		A06
	Malaria (P.falciparum)	108.0	4.6	2.2	1.2	0.7	2.1		B50
	Malaria (P.vivax)	78.7	8.0	4.5	7.0	7.7	9.8		B51
	Syphilis	-4.9	35.1	36.9	22.8	31.8	15.8	( )	A50-A53
	Gonococcal infection	14.1	70.8	62.0	36.4	34.0	28.9	( )	A54
	Streptococcal sore throat	297.7	112.4	28.3	28.0	21.1	22.5		A40
Leprosy	95.0	1.7	0.9	1.1	0.3	0.9		A30	
AIDS	-36.9	1.6	2.5	1.1	1.2	1.2		B20-B24	

Note: Cause of death is based on (ICD-10) effective from 2003.

Rates are per 100,000 population .

(ICD-10 - ) :  
. 2003  
100,000

<i>Vaccine</i>	<i>2003</i>	<i>2002</i>	<i>2001</i>	<i>2000</i>	<i>1999</i>	
<b>Infant &lt; 1 Year</b>						<b>1 &gt;</b>
Third dose of DPT (Diphtheria, Tetanus, Pertussis)	97.3%	98%	99%	97%	97%	( )
Third dose of OPV ( Oral Polio )	97.3%	98%	99%	97%	97%	( )
Third dose of Hepatitis B (HB)	98%	98%	99%	97%	97%	( )
Third dose of Haemophilus Influenza B (Hib)	97.2%	98%	99%	97%	96%	( )
<b>Children of age 1 Year</b>						<b>1 Ø</b>
MMR <sub>1</sub> ( Mumps, Measles, Rubella - dose 1 ) *	100%	99.9%	97%	98%	93%	* ( )
<b>Children of age 6 Years</b>						<b>6 Ø</b>
MMR <sub>2</sub> ( Mumps, Measles, Rubella - dose 2 ) <sup>1</sup>	99.5%	97%	99%	92%	98%	<sup>1</sup> ( )

\* For more details on 1<sup>st</sup> and 2<sup>nd</sup> doses of MMR, please refer to Conventions used in the report .

<sup>1</sup> MMR<sub>2</sub>: The National coverage of the vaccine was 97%, while the calculated figure is 45%. This miss-match in the two figures was due to the National Campaign in 1999 where children been given vaccine were exempted.

Type of Immunization	الجملة Total	1		2		Health Centres	
		Hospitals & Clinics <sup>1</sup>	BDF Hospital	Sh.Sabah H.C. <sup>2</sup>	Schools		
DPT ( Diphtheria, Pertussis, Tetanus )	65,894	3,847	3,031	-	-	59,016	
OPV ( Oral Polio Vaccine)	66,867	3,948	3,048	-	-	59,871	
DT -Diphtheria, Tetanus (children)	1,140	259	25	-	-	856	( )
TD - Tetanus, Diphtheria (Adult)	60,698	9,188	709	820	12,331	37,650	( )
TT ( Tetanus Toxoid ) Pregnant women	10,868	1,095	729	-	-	9,044	( )
MMR ( Mumps, Measles, Rubella )	35,168	1,742	749	-	13,143	19,534	
BCG ( Bacillus Calmette Guerin) <sup>3</sup>	3,235	1,501	977	750	-	7	3
Cholera	1	-	1	-	-	-	
Typhoid fever	9,269	254	-	777	-	8,238	
Yellow fever	552	-	31	521	-	-	
Meningococcal	44,949	943	21	2,070	-	41,915	
Hepatitis B (HB)	122,541	4,815	3,424	410	33,009	80,883	-
Haemophilus Influenzae B (Hib)	55,428	3,390	3,015	-	-	49,023	( )
Rabies	18	-	-	18	-	-	
Pneumococcal	210	207	2	-	-	1	
Hepatitis A	680	593	-	-	-	87	-
Chickenpox	799	752	-	-	-	47	( )
Influenza	1,945	1,126	1	202	-	616	( )

Source: Public Health Directorate .

<sup>1</sup> Hospitals & Clinics: include government and private facilities .

<sup>2</sup> Sh. Sabah H.C: vaccinations are carried out at this Health Center on behalf of the Public Health Directorate, which include vaccinations to travelers and schools. Those vaccinations carried out for patients within its own catchment area are included under "Health Center" .

<sup>3</sup> BCG vaccination, which provides protection against tuberculosis, is given at pre-school age (4-6 years old) to those children who are found to be tuberculin negative .

6-4

Immunization Coverage																
( ) 3rd dose of Haemophilus Influenzae b (Hib)				3rd dose of Viral Hepatitis B (HB)				3rd dose of Diphtheria, Tetanus & Pertussis (DPT & DT)				3rd dose of Oral polio (OPV)				Health Center
%	الجملة Total	% غير بحريني Non- Bah	% بحريني Bah	%	الجملة Total	% غير بحريني Non- Bah	% بحريني Bah	%	الجملة Total	% غير بحريني Non- Bah	% بحريني Bah	%	الجملة Total	% غير بحريني Non- Bah	% بحريني Bah	
93.9	2,375	89.8	95.1	93.9	2,375	89.8	95.1	93.9	2,375	89.8	95.1	93.9	2,375	89.8	95.1	
84.7	668	90.0	81.8	84.7	668	90.0	81.8	84.7	668	90.0	81.8	84.7	668	90.0	81.8	Muharraq
102.0	713	103.2	101.5	102.0	713	103.2	101.5	102.0	713	103.2	101.5	102.0	713	103.2	101.5	Sh.Salman
91.2	600	64.5	94.7	91.2	600	64.5	94.7	91.2	600	64.5	94.7	91.2	600	64.5	94.7	NBB
102.6	394	45.8	106.4	102.6	394	45.8	106.4	102.6	394	45.8	106.4	102.6	394	45.8	106.4	Dair
<b>84.3</b>	<b>2,052</b>	<b>79.0</b>	<b>90.5</b>	<b>85.2</b>	<b>2,074</b>	<b>80.8</b>	<b>90.4</b>	<b>84.5</b>	<b>2,057</b>	<b>79.5</b>	<b>90.4</b>	<b>84.5</b>	<b>2,057</b>	<b>79.5</b>	<b>90.4</b>	<b>Region II</b>
91.5	734	82.8	101.6	92.1	739	84.0	101.6	91.5	734	82.8	101.6	91.5	734	82.8	101.6	Naim
83.7	401	85.5	80.7	84.3	404	86.5	80.7	83.7	401	85.5	80.7	83.7	401	85.5	80.7	Ibn Sinna
80.7	565	67.4	89.5	80.9	566	67.7	89.5	80.7	565	67.4	89.5	80.7	565	67.4	89.5	Sh.Sabah Al Salem
80.2	352	78.3	84.3	83.1	365	82.9	83.6	81.3	357	80.3	83.6	81.3	357	80.3	83.6	Al Hoora
<b>89.4</b>	<b>4,138</b>	<b>37.6</b>	<b>93.9</b>	<b>89.4</b>	<b>4,137</b>	<b>37.1</b>	<b>93.9</b>	<b>89.4</b>	<b>4,136</b>	<b>37.4</b>	<b>93.8</b>	<b>89.4</b>	<b>4,136</b>	<b>37.4</b>	<b>93.8</b>	<b>Region III</b>
84.6	1,246	47.8	88.3	84.6	1,246	47.8	88.3	84.6	1,246	47.8	88.3	84.6	1,246	47.8	88.3	Isa Town
95.3	1,153	40.7	97.8	95.0	1,150	35.2	97.8	95.1	1,151	38.9	97.8	95.1	1,151	38.9	97.8	Jidhafs
86.2	912	18.9	96.7	86.2	912	18.9	96.7	86.2	912	18.9	96.7	86.2	912	18.9	96.7	Budayia
100.8	396	100.0	100.8	101.3	398	106.3	101.1	100.8	396	100.0	100.8	100.8	396	100.0	100.8	Bilad Al Kadeem
87.4	431	46.7	88.7	87.4	431	46.7	88.7	87.4	431	46.7	88.7	87.4	431	46.7	88.7	A'Ali
<b>80.2</b>	<b>3,900</b>	<b>53.3</b>	<b>86.6</b>	<b>80.2</b>	<b>3,903</b>	<b>53.3</b>	<b>86.7</b>	<b>80.2</b>	<b>3,903</b>	<b>53.4</b>	<b>86.7</b>	<b>80.3</b>	<b>3,905</b>	<b>53.3</b>	<b>86.8</b>	<b>Region IV</b>
69.6	539	1.3	77.1	69.9	541	1.3	77.4	69.6	539	1.3	77.1	69.6	539	1.3	77.1	Hamad Town
98.5	870	70.0	99.2	98.5	870	70.0	99.2	98.5	870	70.0	99.2	98.5	870	70.0	99.2	Sitra
59.7	635	46.7	66.8	59.7	635	46.7	66.8	59.7	635	46.7	66.8	59.7	635	46.7	66.8	Hamad Kanoo & Jaw & Asker Clinic *
70.1	775	74.0	67.7	70.1	775	74.0	67.7	70.1	775	74.0	67.7	70.1	775	74.0	67.7	East Riffa
92.5	466	13.0	96.3	92.7	467	13.0	96.5	92.9	468	17.4	96.5	93.3	470	13.0	97.1	Kuwait & Zallaq Clinic *
115.2	615	13.5	122.7	115.2	615	13.5	122.7	115.4	616	13.5	122.9	115.4	616	13.5	122.9	Mohammed Jassim Kanoo
86.2	12,465	68.8	91.2	86.4	12,489	69.5	91.2	86.3	12,471	69.0	91.2	86.3	12,473	69.0	91.2	% HC Coverage to Registered Live Births
11.0	1,611	20.7	8.3	11.6	1,679	21.4	8.7	11.0	1,602	20.2	8.4	11.0	1,595	20.3	8.3	% Private Coverage to Registered Live Births
97.2	13,080	89.5	99.5	98.0	13,104	90.9	99.9	97.3	13,087	89.2	99.6	97.3	13,089	89.3	99.5	Total & %

For more clarification of the calculation of the data, please refer to Formulas/Definitions at the end of the report.

∅		∅		Immunization Coverage								Health Center
Child protection rate at birth by TT2 (PAB)		% of pregnant women received 2 or more doses of tetanus toxoid (TT2+)		<sup>3</sup> 2nd dose of Mumps, Measles, Rubella (MMR2) <sup>3</sup>				1st dose of Mumps, Measles, Rubella (MMR1)				
%	الجملة Total	%	الجملة Total	%	الجملة Total	% بحريني N-Bah	% بحريني Bah	%	الجملة Total	% بحريني N-Bah	% بحريني Bah	
89.4	2,132	52.7	1,346	58.0	1,318	42.0	62.4	94.7	2,215	91.9	95.5	Region I
83.9	572	75.2	599	61.7	438	52.3	66.4	85.9	592	90.3	83.5	Muharraq
79.3	554	53.5	379	23.8	163	33.5	20.2	99.4	680	100.9	98.7	Sh.Salman
93.8	579	51.4	341	109.3	590	34.5	118.3	93.1	578	68.3	95.7	NBB
110.1	427	7.0	27	37.6	127	7.7	38.8	105.5	365	86.7	106.3	Dair <sup>1</sup>
66.8	1,433	55.7	1,365	47.9	1,030	42.5	53.3	89.0	2,121	89.7	88.3	Region II
77.7	600	57.2	462	26.7	179	15.1	36.0	91.7	729	88.5	95.2	Naim
74.4	302	71.0	342	22.8	94	17.9	29.7	89.7	401	93.7	82.7	ibn Sinna
46.3	273	44.5	314	72.5	451	70.0	74.0	85.3	607	77.6	90.7	Sh.Sabah al Salem
68.4	258	55.6	247	68.6	306	68.2	69.3	89.7	384	101.2	72.0	Al Hooraa
85.7	3,593	53.6	2,493	45.7	1,810	14.1	48.3	92.9	3,991	40.8	97.2	Region III
91.9	1,146	51.7	766	61.7	758	26.1	65.4	84.6	1,174	49.3	88.6	Isa Town
85.1	965	56.7	689	53.2	564	17.3	55.1	94.4	1,133	40.8	96.7	Jidhafs
83.5	793	50.6	536	8.9	81	-	10.1	94.8	880	32.7	103.2	Budayia
95.4	374	41.5	163	46.2	172	6.7	47.9	99.5	370	26.1	104.3	Bilad Al Kadeem
66.9	315	67.5	339	60.9	235	30.0	61.7	105.9	434	45.5	107.5	A'Ali
78.7	2,993	41.3	2,023	66.1	2,693	44.7	70.1	79.0	3,527	51.4	86.0	Region V
75.3	384	28.7	224	36.6	421	-	38.8	67.3	509	2.0	77.5	Hamad Town
87.1	775	63.0	561	86.6	609	9.5	89.0	88.2	711	20.0	90.4	Sitra
82.5	515	39.7	424	64.6	416	39.5	80.3	60.8	581	50.6	66.1	Hamad Kanoo & Jaw & Asker Clinic <sup>2</sup>
64.0	461	24.6	274	55.3	564	65.9	51.2	72.3	728	74.5	71.0	East Riffa
97.3	437	64.2	328	65.4	364	-	68.4	101.7	490	6.7	108.0	Kuwait & Zallaq Clinic <sup>2</sup>
69.0	421	39.6	212	NA	319	NA	NA	111.4	508	9.4	119.1	Mohammed Jassim Kanoo
81.0	10,151	49.6	7,227	55.4	6,851	39.5	58.9	87.9	11,854	16.4	71.5	% HC Coverage to Registered Live Births
9.5	1,768	5.9	853	5.3	654	13.5	3.2	12.6	1,702	23.5	9.5	% Private Coverage to Registered Live Births
90.5	1,768	55.5	853	60.7	654	53.0	62.1	100.5	1,702	39.9	81.0	Total & %

For more clarification of the calculation of the data, please refer to Formulas / Definitions at the end of the report.

<sup>1</sup> Dair H.C. Antenatal services is done at Muharraq H.C.

<sup>2</sup> MCH services are not available on these clinics, but the services are given at the corresponding HC.

<sup>3</sup> MMR2: children receive this vaccine are age 4-6 years.

Note: (NA) the registered births data of this health center were not available due to the official opening end of 2001.

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<sup>1</sup> Ø <b>Prevalence<sup>1</sup></b>	<b>Induration size</b>	<sup>2</sup> <b>Tuberculin concentration<sup>2</sup></b>	<b>Year</b>
1.9%	>10mm	5 TU	1994
0.6%	>10mm	5 TU	1995
0.6%	>10mm	5 TU	1996
1.5%	>10mm	5 TU	1997
1.8%	>10mm	5 TU	1998
1.7%	>10mm	5 TU	1999
1.9%	>10mm	5 TU	2000
1.5%	>10mm	5 TU	2001
1.1%	>10mm	5 TU	2002
1.0%	>10mm	5 TU	2003

<sup>1</sup> The information in this table is based on tuberculin screening of children at school entry.

<sup>2</sup> Tuberculin concentration: the number of tuberculin units (TU).

1

2

Measles		Typhoid fever		Paratyphoid fever		Shigellosis		Salmonellosis		Viral Hepatitis		* Population	( )
Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Estimates * 2003	Age Groups (Years)
-	-	-	-	-	-	34.9	4	392.4	45	-	-	11,468	Less than 1 Year
6.0	3	6.0	3	4.0	2	101.8	51	219.5	110	57.9	29	50,107	1-4
7.0	9	1.6	2	1.6	2	44.3	57	24.1	31	89.5	115	128,532	5-14
-	-	1.7	2	1.7	2	12.9	15	19.7	23	79.8	93	116,561	15-24
-	-	2.0	3	-	-	8.6	13	29.2	44	23.2	35	150,861	25-34
-	-	0.8	1	2.3	3	7.0	9	30.4	39	10.1	13	128,482	35-44
-	-	6.4	4	1.6	1	7.9	5	38.2	24	7.9	5	62,909	45-54
-	-	-	-	-	-	8.6	2	38.9	9	8.6	2	23,123	55-64
-	-	-	-	-	-	34.5	6	80.6	14	5.8	1	17,376	65+
1.7	12	2.2	15	1.5	10	23.5	162	49.2	339	42.5	293	689,418	Total الجملة

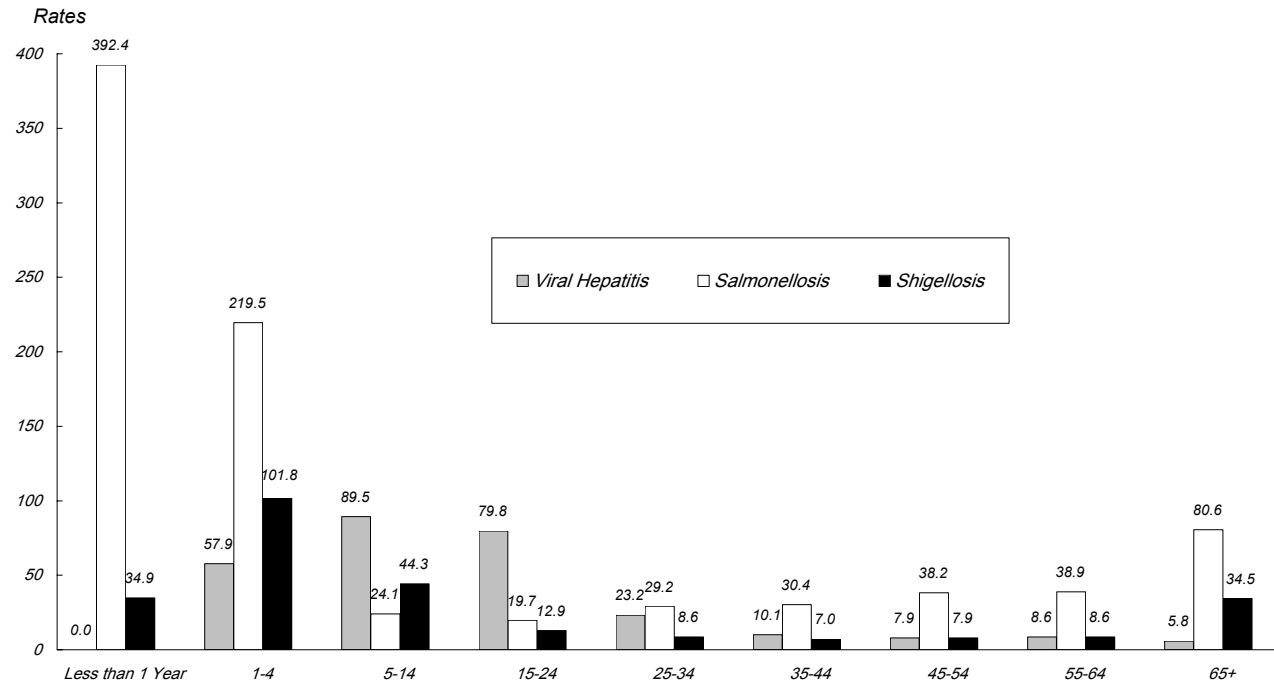
Rates are per 100,000 population .

\* Population Estimates - 1st July 2003 .

100,000

2003 1 - \*

**2003**  
**Selected Communicable Diseases Rates by Age Groups 2003**



Rates per 100,000 population

المعدلات لكل 100,000 من السكان

Refer: Table 6.8

مرجع: جدول 6.8

Typhoid fever		Shigellosis		Salmonellosis		Viral hepatitis		Non-Pulmonary TB		Pulmonary TB		Population Estimates <sup>1</sup> 2003	Region
Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases	Ø Rate	Cases		
-	-	24.2	3	32.2	4	24.2	3	-	-	16.1	2	12,407	Hidd
1.0	1	25.5	25	31.6	31	55.1	54	13.3	13	22.4	22	98,025	Muharraq
4.3	7	11.0	18	39.7	65	28.7	47	21.4	35	23.2	38	163,660	Manama
1.8	1	23.3	13	35.8	20	55.5	31	14.3	8	7.2	4	55,905	Jidhafs
2.1	1	17.2	8	66.6	31	21.5	10	17.2	8	8.6	4	46,581	North Region
2.1	1	17.1	8	32.0	15	12.8	6	19.2	9	21.4	10	46,816	Sitra
-	-	20.6	11	35.7	19	45.0	24	20.6	11	28.2	15	53,275	Central Region
2.5	1	15.3	6	45.9	18	40.8	16	2.5	1	20.4	8	39,256	Isa Town
-	-	46.9	40	100.8	86	52.8	45	25.8	22	24.6	21	85,303	Riffa
-	-	35.9	10	39.5	11	21.5	6	3.6	1	7.2	2	27,873	Western Region
-	-	-	-	-	-	-	-	-	-	-	-	4,134	Southern Region
5.3	3	35.6	20	69.4	39	90.8	51	1.8	1	10.7	6	56,183	Hamad Town
2.2	15	23.5	162	49.2	339	42.5	293	15.8	109	19.1	132	689,418	Total

Rates are per 100,000 population

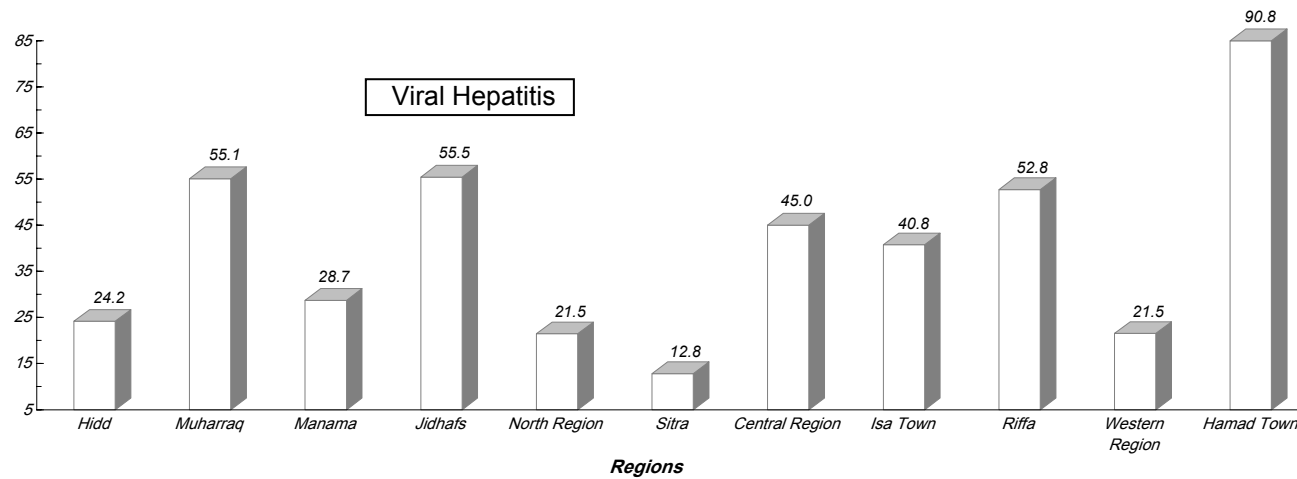
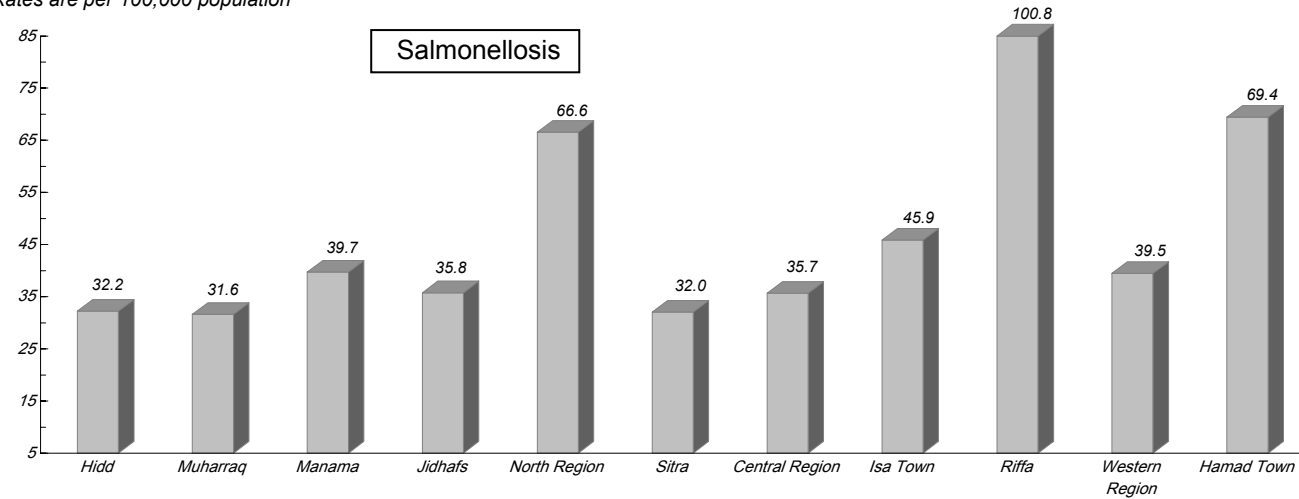
100,000

<sup>1</sup> Population Estimates - 1st July 2003

2003 1 - <sup>1</sup>

**2003**  
**Selected Communicable Diseases Rates by Geographical Region 2003**

Rates are per 100,000 population



The majority of Viral Hepatitis cases were type 'A' which is caused by poor sanitation, food hygiene & water conditions (refer to Table 6.1 for details).  
النسبة العظمى من عدد حالات الإصابة بمرض التهاب الكبد الوبائي هي من الفصيلة " أ " والتي سببها تدني مستوى النظافة والمياه والغذاء الصحي والتفصيل انظر جدول 6.1 .

Refer: Table 6.9

مرجع: جدول 6.9

Source	2003		2002		2001		2000		1999	
	% Bad	No. of samples	% Bad	عدد No. of samples	% Bad	No. of samples	% Bad	No. of samples	% Bad	No. of samples
Public water	3.8	1,900	2.7	1,881	4.1	1,974	3.8	1,862	4.9	1,529
Demineralized water	-	-	-	-	-	-	-	-	-	-
Schools, Hospitals, Hotels	13.1	3,385	10.5	2,503	8.5	1,733	10.5	2,135	8.2	2,201
Total	9.9	5,285	7.2	4,384	6.2	3,707	7.4	3,997	6.9	3,730

% Bad: the percentage of samples in which the water quality was found to be unsatisfactory .

%

<i>Description</i>	<i>2003</i>	<i>2002</i>	<i>2001</i>	<i>2000</i>	<i>1999</i>
<b>Potential spots examined</b>					
Manama	15,608	15,397	19,312	16,922	14,043
Muharraq	9,196	10,799	12,374	17,817	18,766
Jidhafs & Budayia	25,935	26,370	30,092	33,321	31,653
Isa Town	24,777	26,939	25,674	29,059	32,171
Karzakan	20,022	18,649	18,200	18,170	15,060
Riffa & Sitra	20,521	20,073	15,955	20,218	25,535
Total	116,059	118,227	121,607	135,507	137,228
<b>+ Culex spots</b>					
Manama	367	224	324	291	179
Muharraq	36	62	65	56	97
Jidhafs & Budayia	1,350	1,451	2,018	2,243	1,961
Isa Town	200	205	361	260	248
Karzakan	259	300	362	372	308
Riffa & Sitra	382	399	349	320	439
Total	2,594	2,641	3,479	3,542	3,232
<b>+ Anopheles spots</b>					
Manama	-	5	9	7	2
Muharraq	-	-	1	2	2
Jidhafs & Budayia	21	42	73	59	13
Isa Town	6	11	11	2	5
Karzakan	20	21	29	35	12
Riffa & Sitra	3	10	7	5	2
Total	50	89	130	110	36

Country of Origin	الجملة					
	Total	P.F.	P.V.	P.M.	Mixed	
India	20	-	20	-	-	
Pakistan	44	14	30	-	-	
Yemen	-	-	-	-	-	
Gana	1	1	-	-	-	
Sudan	17	14	3	-	-	
Others	4	3	1	-	-	
Total	86	32	54	-	-	

*P.F.* - *Plasmodium falciparum* - often fatal form of malaria .

*P.V.* - *Plasmodium vivax* - usually mild form of malaria .

*P.M.* - *Plasmodium malariae* - mild form of malaria .

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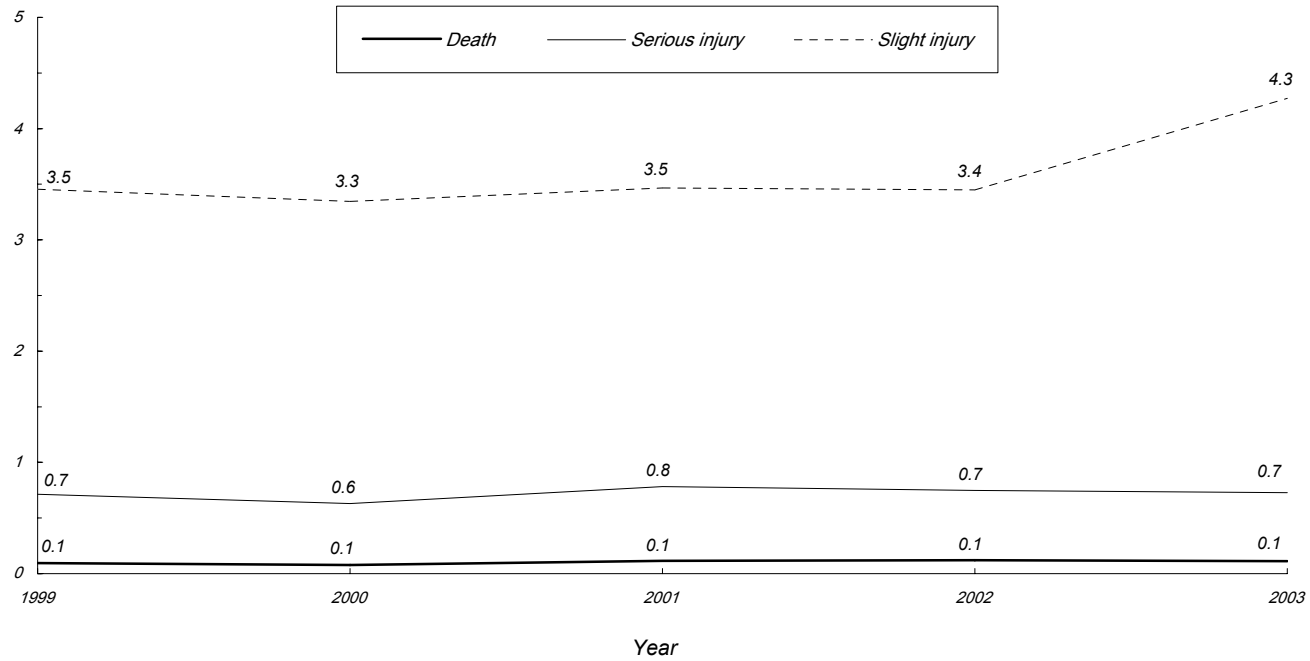
Test / Source	2003			2002			/
	Positive samples		Total Samples	Positive samples		Total Samples	
	%	No.		%	No.		
<b>Hepatitis B surface antigen (HBsAg)</b>							
Blood Bank	0.19	24	12,402	0.19	23	11,950	
Suspected cases	2.91	532	18,292	3.65	643	17,613	
<b>Anti-HBs</b>							
Postvaccination testing	60.30	524	869	62.76	450	717	
<b>Hepatitis B, E antigen (HBeAg)</b>							
HBsAg +ve cases	27.22	89	327	59.22	122	206	0
<b>Anti-HBe</b>							
HBsAg +ve cases	77.20	501	649	69.66	505	725	
<b>Hepatitis A (Igm)</b>							
Suspected cases	14.40	190	1,319	12.81	133	1,038	
<b>Rubella antibodies (IgG)</b>							
Suspected cases pregnant women at 1st antenatal visit, other women	94.84	11,061	11,663	94.41	10,226	10,831	( )
<b>Rubella antibodies (IgM)</b>							
Suspected cases	0.22	1	463	1.22	5	411	( )
<b>HIV antibodies</b>							
Blood donors	-	-	12,402	0.02	2	11,950	
Pre-employment examination	0.10	32	33,177	0.11	32	29,579	

Seriousness of Injury	Ø Rate	Total			Pedestrians		Passengers		Drivers		
		Total	Female	Male	Female	Male	Female	Male	Female	Male	
<b>1999</b>											<b>1999</b>
Death	0.09	63	13	50	4	14	6	12	3	24	
Serious injury	0.71	476	94	382	35	138	39	82	20	162	
Slight injury	3.46	2,303	705	1,598	110	276	373	495	222	827	
<b>2000</b>											<b>2000</b>
Death	0.08	53	5	48	2	15	2	13	1	20	
Serious injury	0.63	436	79	357	22	116	28	71	29	170	
Slight injury	3.35	2,312	678	1,634	89	257	407	535	182	842	
<b>2001</b>											<b>2001</b>
Death	0.11	75	10	65	4	22	4	17	2	26	
Serious injury	0.78	513	97	416	33	129	47	102	17	185	
Slight injury	3.47	2,269	695	1,574	95	292	384	489	216	793	
<b>2002</b>											<b>2002</b>
Death	0.12	81	22	59	6	22	10	17	6	20	
Serious injury	0.75	503	103	400	28	126	50	89	25	185	
Slight injury	3.45	2,318	752	1,566	96	258	417	506	239	802	
<b>2003</b>											<b>2003</b>
Death	0.11	77	8	69	4	21	4	10	-	38	
Serious injury	0.73	501	102	399	43	110	39	73	20	216	
Slight injury	4.27	2,945	953	1,992	78	273	535	601	340	1,118	

Source: Ministry of Interior - Traffic Directorate .  
Rates are per 1000 population .

1000

2003 - 1999 Ø  
 Road & Traffic Related Accidents Rates by Seriousness of Injuries 1999 - 2003



Rates are per 1000 population  
 Refer: Table 6.14

1000  
 6.14 :

Division of Economic Activity	Number of Insured Persons			Total Deaths		Total Accidents		Non-Bahraini		Bahraini	
	Total	Non-Bahraini	Bahraini	Ø	No.	Ø	No.	Death	Accident	Death	Accident
				Rate		Rate					
Agriculture & Fishing	1,485	1,173	312	-	-	22.2	33	-	2	-	31
Mining & Quarrying	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	52,485	34,654	17,831	0.1	7	15.1	791	3	260	4	531
Electricity, Gas & Water	1,493	897	596	-	-	20.8	31	-	11	-	20
Building & Construction	64,015	52,207	11,808	0.2	11	12.0	768	10	530	1	238
Wholesale, Retail trades, Restaurants & Hotels	44,376	32,433	11,943	0.0	1	5.3	234	1	96	-	138
Transport, Storage & Communications	10,980	4,933	6,047	-	-	16.0	176	-	76	-	100
Finance, Insurance, Real Estate & Business Services	10,492	3,445	7,047	-	-	4.6	48	-	16	-	32
Community Social & Personal Services	25,806	17,869	7,937	0.1	2	7.8	201	2	57	-	144
Others Activities not Elsewhere Classified	203	23	180	-	-	-	-	-	-	-	-
<b>Total</b>	<b>211,335</b>	<b>147,634</b>	<b>63,701</b>	<b>0.1</b>	<b>21</b>	<b>10.8</b>	<b>2,282</b>	<b>16</b>	<b>1,048</b>	<b>5</b>	<b>1,234</b>

Note: only accidents covered by social insurance are described in this table.

Source: General Organisation for Social Insurance.

The rates are per 1000 insured persons by Nationality.

1000

Division of Economic Activity	2003		2002		2001		2000		1999	
	Non-Bah	Bah	Non-Bah	Bah	Non-Bah	Bah	Non-Bah	Bah	Non-Bah	Bah
Agriculture & Fishing	1.7	99.4	6.2	21.5	4.4	80.2	4.8	60.6	10.6	59.4
Mining & Quarrying	-	-	-	-	-	-	-	-	4.4	-
Manufacturing	7.6	30.0	16.8	15.9	7.2	27.8	8.9	25.2	11.4	23.8
Electricity, Gas & Water	12.3	33.6	22.7	26.5	18.2	40.0	22.7	47.9	17.0	44.9
Building & Construction	10.3	20.2	46.9	6.4	16.2	34.5	17.7	30.6	21.0	30.0
Wholesale, Retail trades, Restaurants & Hotels	3.0	11.6	11.6	5.4	5.1	15.8	7.1	18.4	6.0	12.4
Transport, Storage & Communications	15.4	16.5	11.0	23.6	27.4	21.5	35.1	28.0	28.6	27.8
Financing, Insurance, Real Estate & Business Services	4.6	4.5	2.2	11.1	6.2	7.7	6.7	10.2	10.9	5.2
Community Social & Personal Services	3.3	18.1	7.3	9.4	6.9	28.1	8.6	29.4	8.5	34.4
Others Activities not Elsewhere	-	-	-	-	22.4	66.9	30.0	77.2	23.3	89.4
<b>Total</b>	<b>7.2</b>	<b>19.5</b>	<b>17.5</b>	<b>10.0</b>	<b>10.7</b>	<b>25.1</b>	<b>18.6</b>	<b>25.5</b>	<b>14.2</b>	<b>24.4</b>

Note: only accidents covered by social insurance are described in this table.

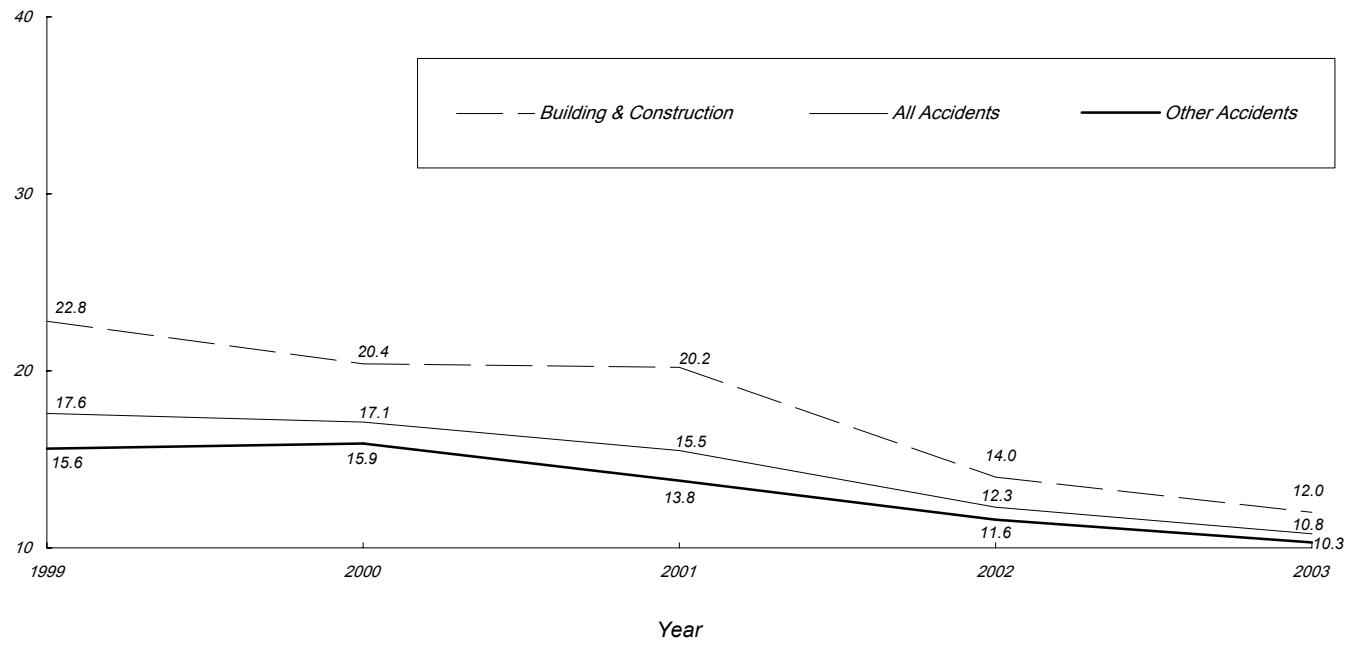
Source: General Organisation for Social Insurance.

The rates are per 1000 insured persons by Nationality.

1000

2003 - 1999 Ø  
Occupational Accidents Rates 1999 - 2003

Rates are per 1000 insured persons



Refer: Table 6.15

مرجع: جدول 6.15