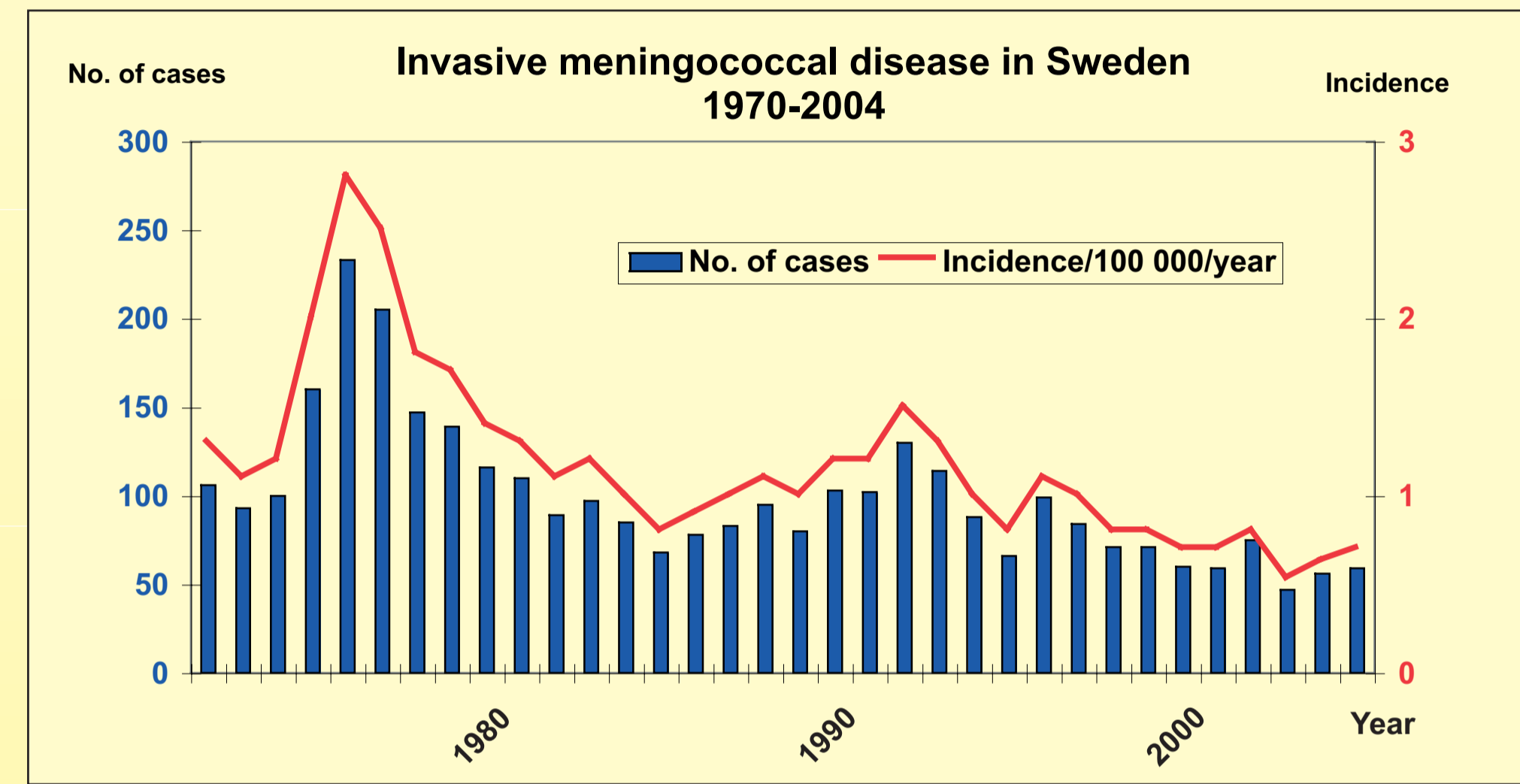
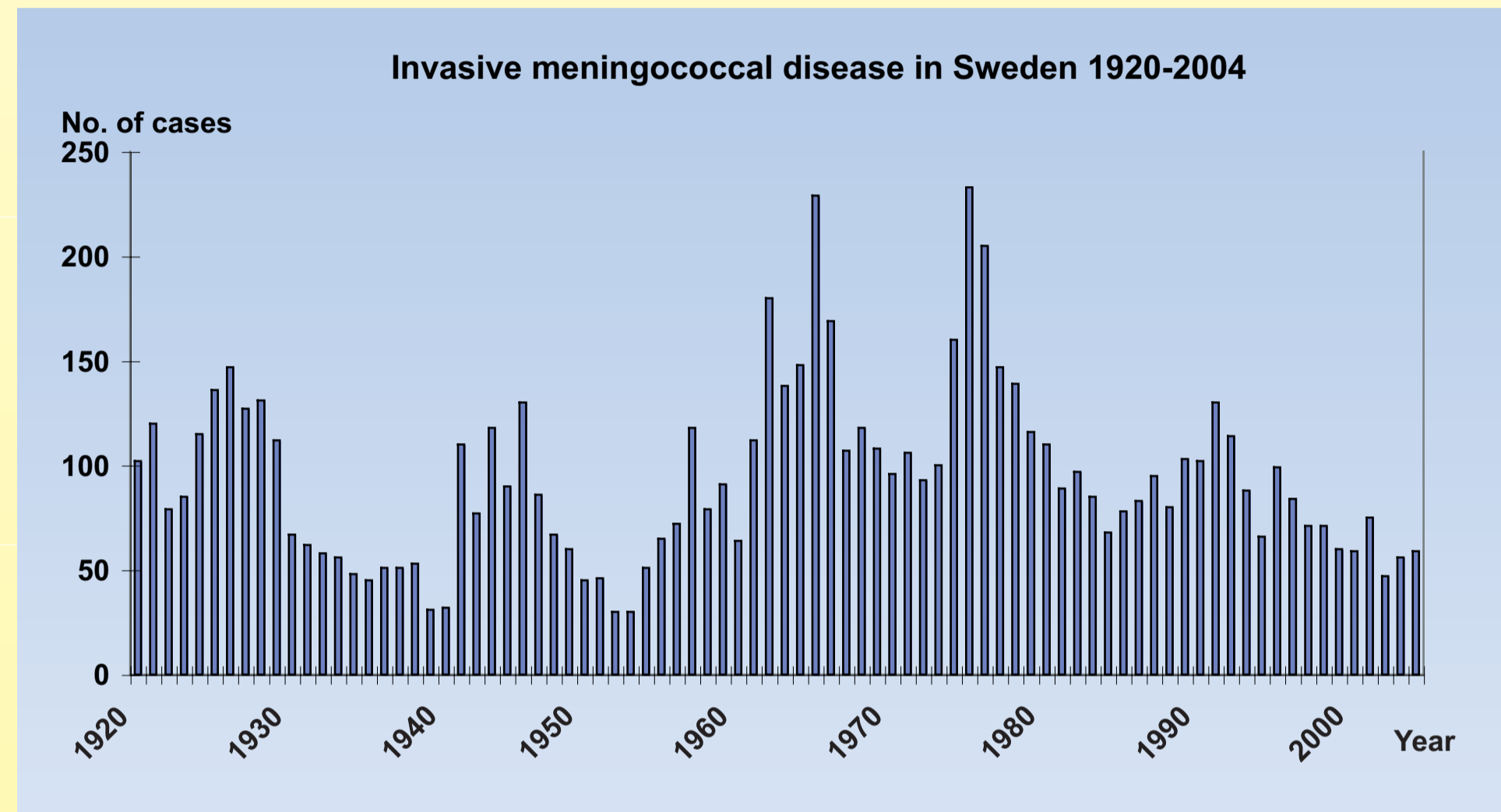


Invasive meningococcal disease in Sweden 2004

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In year 2004 a total of 59 cases of invasive meningococcal disease were identified in Sweden (9 milj.inhabitants) via the mandatory combined clinical and laboratory reporting system (incidence rate 0.7).

The number of cases per age group, the corresponding serogroup and mortality is presented in the table.

2004		Serogroup					Mortality					
age	number	B	C	Y	W-135	unknown	B	C	Y	W-135	unknown	total
0-4*	14	8	1	-	2	3	-	-	-	-	-	-
5-9	2	1	1	-	-	-	-	-	-	-	-	-
10-14	4	-	2	-	-	2	-	-	-	-	-	-
15-19	15	5	5	3	-	2	-	-	1	-	1	2
20-24	6	5	1	-	-	-	-	-	-	-	-	-
25-44	6	1	-	1	1	3	-	-	-	-	1	1
45-64	7	4	-	-	1	2	1	-	-	-	-	1
65+	5	1	-	2	2	-	-	-	1	1	-	2
Total	59	25	10	6	6	12	1	0	2	1	2	6

* 6 children <1 year

The total case fatality rate was 10% (n=6). Two fatal cases were teenagers.

It can be noted that there were no group A isolates and that group B dominated.

There were no clusterings of cases during the year known to the reference bodies.

Five cases were without laboratory confirmation (8%).

Capture-recapture analysis has indicated that <5% of cases are unnoticed.

Antibiotic sensitivity was documented with the Etest for invasive isolates.

The range of MIC values (mg/L) were as follows during the years 1994 and 2004

Antibiotic	MIC, 1994	MIC, 2004
Penicillin G	0.006-0.19 (11% >0.064)	0.012-0.5 (23% >0.064)
Cefotaxime	≤ 0.008	≤ 0.012
Ciprofloxacin	≤ 0.006	≤ 0.008
Chloramphenicol	0.38-6	0.25 - 1.5
Rifampicin	≤ 0.047	≤ 0.25

No β-lactamase positivity was found.

Vaccination against meningococcal disease was not used in the generally. Single persons travelling to “risk” areas were vaccinated.

With a low incidence and mortality rate in children/young people general vaccinations against group C has at present few supporters.

Non-culture methods for diagnoses and characterisation are increasingly requested (50 samples 2004).

Invasive meningococcal disease in Sweden 1995 – 2004, including serogroup

Year	No. of cases	Incidence*	Mortality number	A	B	C	Y	W-135	Other	Serogroup not known	PCR diagnosis	Clinical diagnosis **
1995	99	1.1	13		51	27	6	2	1	12		12
1996	84	1.0	9		49	8	8	3		16		14
1997	71	0.8	4		33	24	6			8		8
1998	70	0.8	7		37	14	4	4	3	8	1	7
1999	60	0.7	3		27	12	7	2		18	5	1
2000	59	0.7	7		23	15	1	5		15	5	15
2001	75	0.8	5		33	14	8	2		18	4	9
2002	47	0.5	9		24	11	5	1		6	5	5
2003	56	0.6	9		31	11	2	2		10	9	10
2004	59	0.7	6		25	10	6	6		12	5	5
Total	686	0.8	72 (10 %)	0	333	146	53	27	4	123		86 (13 %)

* Incidence = cases/100 000/year

** Clinical diagnosis = not microbiologically verified