

Table 2: Leading causes of death by income group, 2004



World			Low-income countries ^a		
Disease or injury	Deaths (millions)	Per cent of total deaths	Disease or injury	Deaths (millions)	Per cent of total deaths
1 Ischaemic heart disease	7.2	12.2	1 Lower respiratory infections	2.9	11.2
2 Cerebrovascular disease	5.7	9.7	2 Ischaemic heart disease	2.5	9.4
3 Lower respiratory infections	4.2	7.1	3 Diarrhoeal diseases	1.8	6.9
4 COPD	3.0	5.1	4 HIV/AIDS	1.5	5.7
5 Diarrhoeal diseases	2.2	3.7	5 Cerebrovascular disease	1.5	5.6
6 HIV/AIDS	2.0	3.5	6 COPD	0.9	3.6
7 Tuberculosis	1.5	2.5	7 Tuberculosis	0.9	3.5
8 Trachea, bronchus, lung cancers	1.3	2.3	8 Neonatal infections ^b	0.9	3.4
9 Road traffic accidents	1.3	2.2	9 Malaria	0.9	3.3
10 Prematurity and low birth weight	1.2	2.0	10 Prematurity and low birth weight	0.8	3.2
Middle-income countries			High-income countries		
1 Cerebrovascular disease	3.5	14.2	1 Ischaemic heart disease	1.3	16.3
2 Ischaemic heart disease	3.4	13.9	2 Cerebrovascular disease	0.8	9.3
3 COPD	1.8	7.4	3 Trachea, bronchus, lung cancers	0.5	5.9
4 Lower respiratory infections	0.9	3.8	4 Lower respiratory infections	0.3	3.8
5 Trachea, bronchus, lung cancers	0.7	2.9	5 COPD	0.3	3.5
6 Road traffic accidents	0.7	2.8	6 Alzheimer and other dementias	0.3	3.4
7 Hypertensive heart disease	0.6	2.5	7 Colon and rectum cancers	0.3	3.3
8 Stomach cancer	0.5	2.2	8 Diabetes mellitus	0.2	2.8
9 Tuberculosis	0.5	2.2	9 Breast cancer	0.2	2.0
10 Diabetes mellitus	0.5	2.1	10 Stomach cancer	0.1	1.8



Todesursachenstatistik in Deutschland (2010):

1. Platz: Herz-Kreislauf-Erkrankungen (25.3%)
2. Platz: Krebs (8.9%)
3. Platz: Schlaganfall (7.3%)

Weltweit (WHO 2008):

Platz 2. (5.7% aller Todesfälle)

Behinderung

häufigste Ursache für lebenslange Behinderung
im Erwachsenenalter (35%)

Krankheitskosten

2 Milliarden Euro/ Jahr (direkte Kosten)



Table 2. Nonmodifiable Risk Factors

Factor	Incidence	Population Attributable Risk	Relative Risk	Risk Reduction With Treatment
Age ¹⁰	Doubling of stroke rate each 10 years after age 55	...	...	...
Race ¹¹	Blacks: 233/100 000	...	...	...
	Hispanics: 196/100 000	...	...	...
	Whites: 93/100 000	...	...	...
Sex ⁸	Men: 174/100 000	...	...	...
	Women: 122/100 000	...	...	...
	Total: 145/100 000	...	...	...
Family history of stroke/TIA ²⁷	RR paternal history: 2.4 (95% CI 0.96–6.03)	...
	RR maternal history: 1.4 (95% CI 0.60–3.25)	...

RR indicates relative risk.



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Original Contribution

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Association Between Chlorthalidone Treatment of Systolic Hypertension and Long-term Survival

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ABSTRACT

Context In the Systolic Hypertension in the Elderly Program (SHEP) trial, conducted between 1985 and 1990, antihypertensive therapy with chlorthalidone-based stepped-care therapy resulted in a lower rate of cardiovascular events than placebo but effects on mortality were not significant.

Objective To study the gain in life expectancy of participants randomized to active therapy at the 22-year follow-up.

Design, Setting, and Participants A National Death Index ascertainment of death in the long-term follow-up of a randomized, placebo-controlled, clinical trial (SHEP) of patients aged 60 years or older with isolated systolic hypertension. Recruitment was between March 1, 1985, and January 15, 1988. After the end of a 4.5-year randomized phase of the SHEP trial, all participants were advised to receive active therapy. The time interval between the beginning of recruitment and the ascertainment of death by National Death Index (December 31, 2006) was approximately 22 years (21 years 10 months).

Nach Berechnungen der SHEP-Autoren resultiert folgende Formel:

Mit jedem Monat, den ein Hypertoniker unter kontinuierlicher antihypertensiver Therapie verbringt, **erhöht sich die Lebenszeit**, die er ohne eine tödliche kardiovaskuläre Komplikation verbringt, **um einen zusätzlichen Tag**.

Häufigkeit

60-70% aller Personen > 60 Jahre



15 Millionen betroffen

5 Millionen nicht ausreichend behandelt

5 Millionen wissen dies nicht

Schlaganfall-Risiko

6-12fach

Haupt-Risikofaktor

bei 35-50% aller Hirninfarkte

bei 60-70% aller Hirnblutungen

Ursachen

versteckte Salze:

z.B. Japan: Soja-Sauce

z. B. Neufundland: Pökelprodukte

Deutschland: Wurstwaren, Sandwiches usw.



Studien

UK Preventive Diabetes Study (5102 Patienten)
Nachverfolgung von Diabetikern über 10 Jahre

Prävention

Senkung des Schlaganfall-Risikos
um 12% pro 1% Senkung des **HbA1c (BZ-Gedächtnis)**

Behandlung

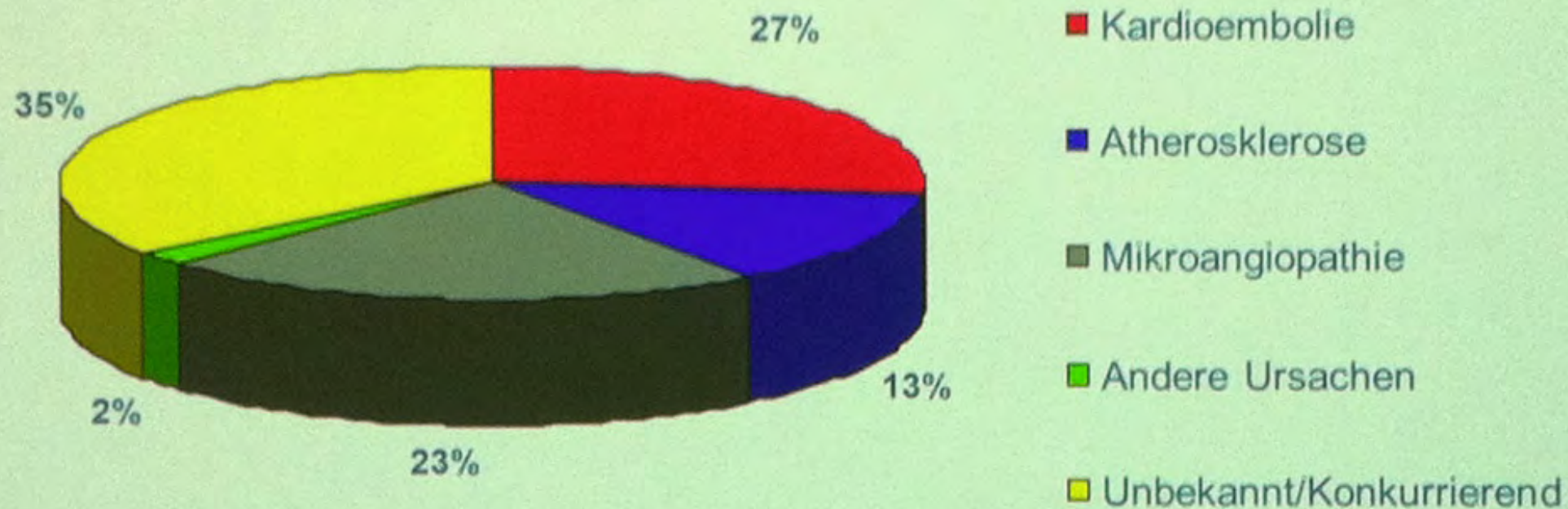
Gewichtsreduktion, Diät
orale Antidiabetika
Insulin

Regel

Senkung HbA1c unter 7% egal wie !!!



Häufigkeit	0.8% der Gesamtbevölkerung
Altersabhängigkeit	Framingham Heart Study 0.7% in Altersgruppe 50-59 18% in Altersgruppe >85
Schlaganfall-Risiko	6-fach
Hauptrisiko-Faktor	28% der Hirninfarkte in Altersgruppe 80-89 Jahre





Tab. 6 Übersicht der oralen Antikoagulanzen (modifiziert nach: [55, 112]).

	Phenprocoumon	Dabigatran	Apixaban	Rivaroxaban
Wirkmechanismus	Vitamin-K-Antagonist	Thrombin-Inhibitor	Faktor Xa-Inhibitor	Faktor Xa-Inhibitor
Dosis	Nach INR	2 × täglich	2 × täglich	1 × täglich
orale Bioverfügbarkeit (%)	Variabel	80	65	47
Plasmaspitze (h)	Variabel	1–3	1–3	2–4
Halbwertszeit (h)	Ca. 40	17	Ca. 12	9–12
Elimination	Hepatisch	Renal 80%	Renal 25%	Renal 54%
Antidot	Ja	Nein	Nein	Nein
Interaktionen	zahlreich	P-Glykoprotein-Inhibitor	CYP3A4-Inhibitor P-Glykoprotein-Inhibitor	CYP3A4-Inhibitor P-Glykoprotein-Inhibitor

Sander D et al. Primärprävention des Schlaganfalls ... Akt Neurol 2011; 38: 414–427

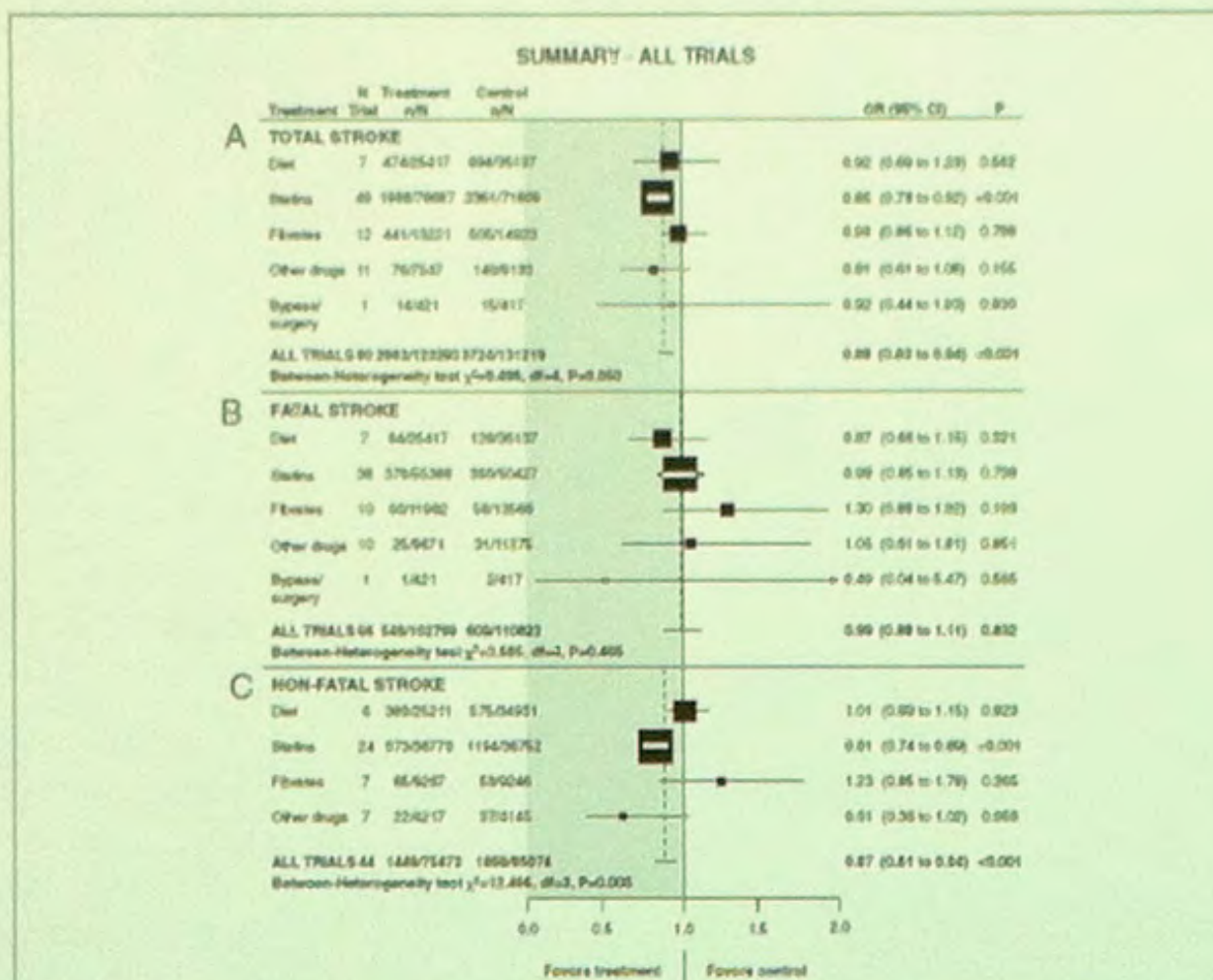
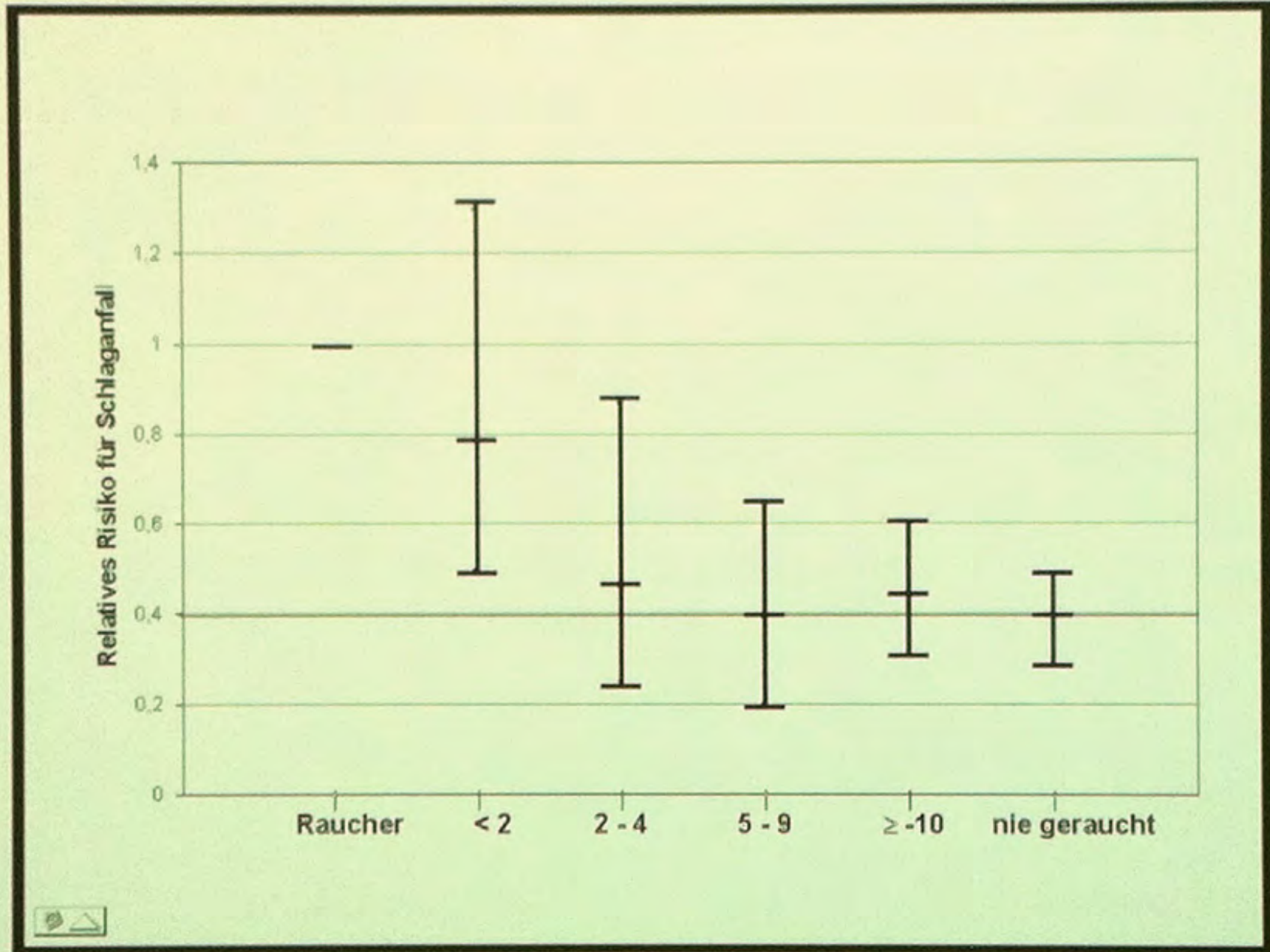


Figure 3. Cumulative OR and 95% CI for Total, Facial, and Nonfatal Stroke

Cumulative odds ratios (ORs) and 95% confidence intervals (CIs) for the occurrence of total stroke (A), facial stroke (B), and nonfatal stroke (C), each also separated by stroke type and trials involving other interventions: diet, fibrates, "other drugs," and surgery. The OR of an event in the treatment group compared with that in the control group is plotted for each trial (the black square indicates size proportional to the amount of statistical information contributed by trial) along with its 95% CI (horizontal line). The black squares to the left of the solid vertical line indicate benefit, which is significant at $p < 0.05$ only where the entire CI is to the left of the vertical line. The overall result of all trials (and 95% CI) is represented by a vertical dashed line (with a horizontal line at the bottom of each panel indicating its 95% CI). The OR and 95% CI are given to the right for each subcategory analyzed.



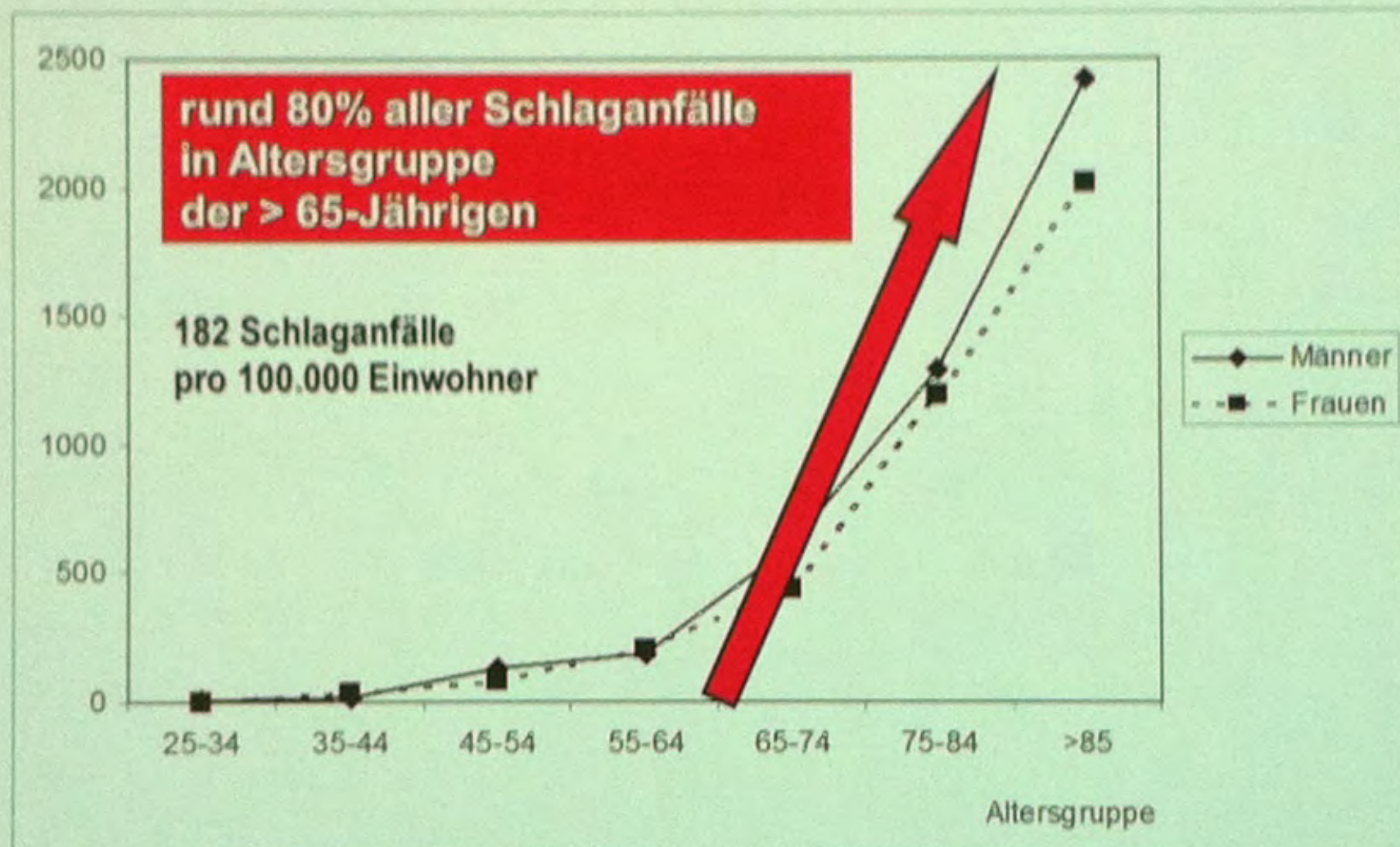


1. Die risikoarme Schwellendosis im Umgang mit Alkohol beim gesunden Menschen ohne zusätzliches genetisches oder erworbenes Risiko liegt beim

Mann bis 24 g Alkohol pro Tag	(0,6 Liter Bier oder 0,3 Liter Wein)
Frau bis 12 g Alkohol pro Tag	(0,3 Liter Bier oder 0,15 Liter Wein)

2. Auch bei dieser Alkoholdosis sollten mindestens 2 alkoholfreie Tage pro Woche eingehalten werden.

**Die Menge des Alkohols entscheidet !
Art des Getränkes unbedeutend !**





Horizont	Männer		Frauen		Gesamt	
	Fälle	Milliarden	Fälle	Milliarden	Fälle	Milliarden
2006-2010	331,000	13.8	425,000	16.1	756,000	29.9
2006-2015	701,000	27.1	880,000	30.9	1,581,000	58.0
2006-2020	1,108,000	39.7	1,367,000	44.6	2,475,000	84.3
2006-2025	1,547,000	51.5	1,883,000	57.1	3,430,000	108.6