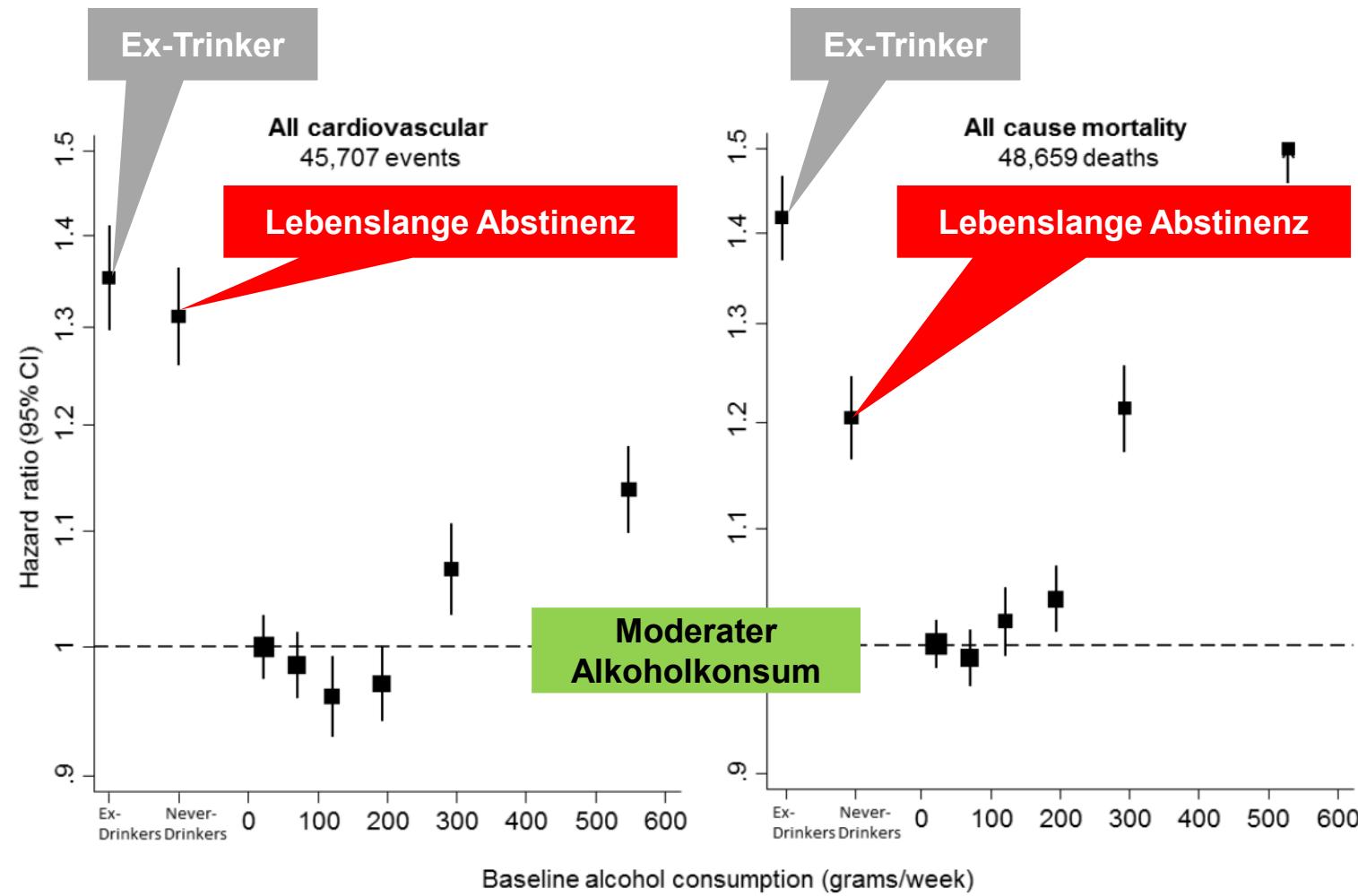


eFigure 10: Shape of association between baseline alcohol consumption, including ex- and non-drinkers, with all cardiovascular disease and all-cause mortality.



Adjusted for age, smoking and history of diabetes, and stratified by sex and EPIC centre. Alcohol consumption categories amongst current drinkers were >0 - ≤ 50 grams/week, >50 - ≤ 100 grams/week, >100 - ≤ 150 grams/week, >150 - ≤ 250 grams/week, >250 - ≤ 350 grams/week and >350 grams/week. The reference category is the lowest baseline alcohol consumption category (>0 and ≤ 50 g/week). Studies with fewer than five events of any outcome were excluded from the analysis of that outcome. The sizes of the boxes are proportional to the inverse of the variance of the log-transformed hazard ratios. Vertical lines represent 95% CIs. Individuals for whom we were unable to distinguish as ex- or never- drinkers were excluded from the analysis.

A scenic view of a vineyard and a church in autumn. The foreground shows the dark roofs and spires of a Gothic church. The middle ground is a vast, rolling vineyard with rows of grapevines. In the background, there are hills covered in autumn-colored trees and a small, square stone tower on a hilltop. The sky is blue with some white clouds.

Moderater Weingenuss als Teil eines gesunden Lebensstils

Dr. med. Johannes Scholl
www.preventionfirst.de

Interessenkonflikte zum Thema Wein

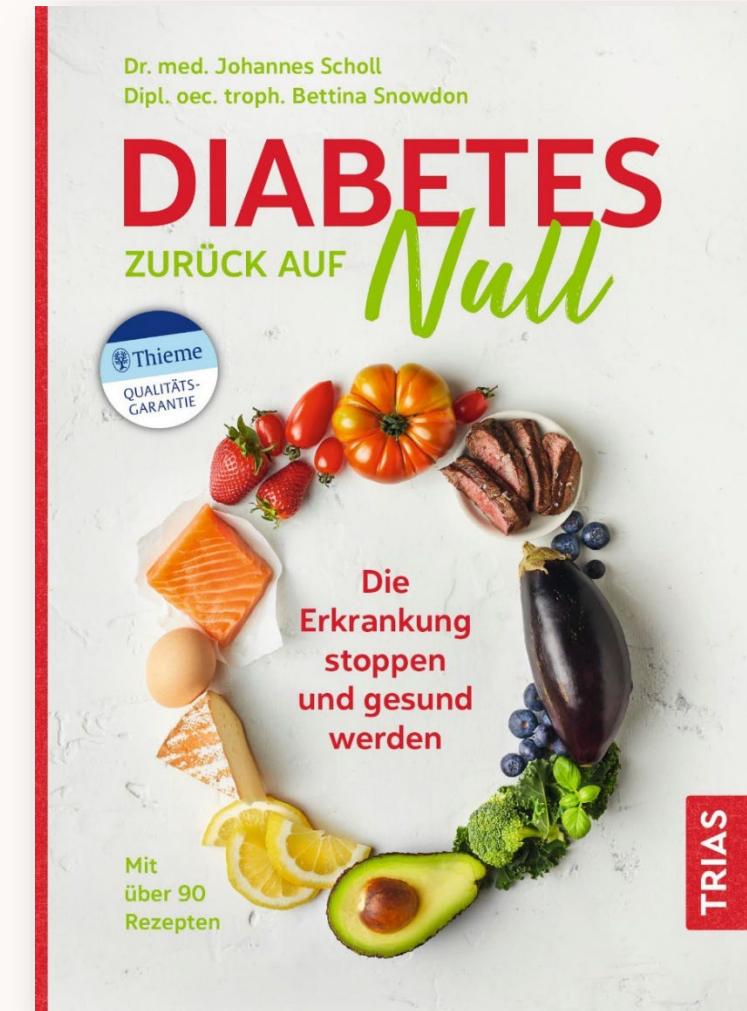
Dr. med. Johannes Scholl

- Aufgewachsen in einem Weindorf
- Seit der Kindheit mit (heutigen) Winzern befreundet
- 1970 mit dem Opa Weinberg Im Kolsterberg gepflanzt
- 0,5 ha Weinberge in Familienbesitz (verpachtet)
- Mitglied der Weinloge „Die Kranenmeister zu Oestrich“
- Weinsammler, Weinverkostungen



Dr. med. Johannes Scholl

- Facharzt für Innere Medizin, Ernährungsmedizin, Sportmedizin, Notfallmedizin, **Präventivmedizin**
- Privatärztlich niedergelassen seit 2001 (Prevention First) mit Praxen in Rüdesheim, Frankfurt, München und Berlin
- 16 Ärzte machen >6000 Check-up-Untersuchungen für die Mitarbeitenden von >80 Unternehmen
- Gründungspräsident 2005 der Deutschen Akademie für Präventivmedizin e.V. (www.akaprev.de)
- Gastdozent an der Uni Mainz (Q10 Prävention)
- **Buchautor: „Diabetes – zurück auf Null“, TRIAS-Verlag** (Einnahmen aus Verkauf -> Werbung für das Buch)



Ebenen der Diskussion

Gesundheitspolitik: Es kann nicht dieselben Empfehlungen „für alle“ geben. Aufruf zur „Mäßigung“ und Hinweis auf die Bedeutung der Einbettung in einen gesunden Lebensstil.

„Kein risikoloser Alkoholkonsum“: Orthorexie und Abstinenz vs. Lebensstil und Genuss. Religiöse Hintergründe (USA), moralische Empörung, Trittbrettfahrer (Hirschhausen, Kast...)

Differenzierung nach Getränken: klare Überlegenheit von Wein gegenüber Bier / Spirituosen wird ignoriert. Offene Frage: Macht das Getränk und/oder der Lebensstil / die Ernährungsweise der Konsumenten den Unterschied?

Gesundheitliche Effekte: Datenlage zu den positiven Wirkungen des moderaten Konsums ist eindeutig, aber Studienergebnisse werden manipuliert bzw. absichtlich falsch dargestellt.



Neue Studie

Bereits kleine Mengen Alkohol schädlich

Stand: 13.04.2018 10:34 Uhr



Ein Gläschen in Ehren kann niemand verwehren, heißt es. Eine neue Studie allerdings besagt: Schon geringe Mengen Alkohol sind schädlich. Experten empfehlen, auch die deutschen Richtwerte zu überprüfen.

AUS DEM ARCHIV

["Jahrbuch Sucht" - Alkohol bleibt Gesellschaftsdroge, 28.03.2018](#)

[Alkohol und Tabak schaden der Gesellschaft am meisten, 18.08.2017](#)

TOP 5

Nachrichten > Gesundheit > Ernährung & Fitness > Alkohol > Alkohol: Schon kleine Mengen verkürzen laut Studie das Leben

Studie

Schon kleine Mengen Alkohol verkürzen das Leben

Ein Glas Wein am Tag schadet nicht - heißt es. Doch laut einer aktuellen Studie sind schon geringe Mengen Alkohol schädlich und verkürzen die Lebenszeit. Auch die deutschen Richtwerte sollten demnach überprüft werden.





Nachrichten > Gesundheit > News > Bier und Wein: Schon mäßiger Alkoholkonsum verkürzt die Lebenserwartung

Nicht jeden Tag ein Glas Bier oder Wein

Schon mäßiger Alkoholkonsum verkürzt die Lebenserwartung

Teilen

★★★★★ 0



Richtwert oft zu hoch: Schon geringe Menge Alkohol verkürzt die Lebenserwartung

FOCUS Online/Wochit

Sonntag, 15.04.2018, 12:30

Metaanalyse 2018: „Es gibt keinen risikolosen Konsum!“

Wood, AM et al., Lancet 2018; 391: 1513–23; Published: April 14, 2018 DOI:[https://doi.org/10.1016/S0140-6736\(18\)30134-X](https://doi.org/10.1016/S0140-6736(18)30134-X)

Risk thresholds for alcohol consumption: combined analysis of individual-participant data for 599 912 current drinkers in 83 prospective studies



Angela M Wood, Stephen Kaptoge, Adam S Butterworth, Peter Willeit, Samantha Warnakula, Thomas Bolton, Ellie Paige, Dirk S Paul, Michael Sweeting, Stephen Burgess, Steven Bell, William Astle, David Stevens, Albert Koulman, Randi M Selmer, WM Monique Verschuren, Shinichi Sato, Inger Njølstad, Mark Woodward, Veikko Salomaa, Børge G Nordestgaard, Bu B Yeap, Astrid Fletcher, Olle Melander, Lewis H Kuller, Beverley Balkau, Michael Marmot, Wolfgang Koenig, Edoardo Casiglia, Cyrus Cooper, Volker Arndt, Oscar H Franco, Patrik Wennberg, John Gallacher, Agustín Gómez de la Cámara, Henry Völzke, Christina C Dahm, Caroline E Dale, Manuela M Bergmann, Carlos J Crespo, Yvonne T van der Schouw, Rudolf Kaaks, Leon A Simons, Pagona Lagiou, Josje D Schoufour, Jolanda M A Boer, Timothy J Key, Beatriz Rodriguez, Conchi Moreno-Iribas, Karina W Davidson, James O Taylor, Carlotta Sacerdote, Robert B Wallace, J Ramon Quiros, Rosario Tumino, Dan G Blazer II, Allan Linneberg, Makoto Daimon, Salvatore Panico, Barbara Howard, Guri Skeie, Timo Strandberg, Elisabete Weiderpass, Paul J Nietert, Bruce M Psaty, Daan Kromhout, Elena Salamanca-Fernandez, Stefan Kiechl, Harlan M Krumholz, Sara Grioni, Domenico Palli, José M Huerta, Jackie Price, Johan Sundström, Larraitz Arriola, Hisatomi Arima, Ruth C Travis, Demosthenes B Panagiotakos, Anna Karakatsani, Antonia Trichopoulou, Tilman Kühn, Diederick E Grobbee, Elizabeth Barrett-Connor, Natasja van Schoor, Heiner Boeing, Kim Overvad, Jussi Kauhanen, Nick Wareham, Claudia Langenberg, Nita Forouhi, Maria Wennberg, Jean-Pierre Després, Mary Cushman, Jackie A Cooper, Carlos J Rodriguez, Masaru Sakurai, Jonathan E Shaw, Matthew Knuiman, Trudy Voortman, Christa Meisinger, Anne Tjønneland, Hermann Brenner, Luigi Palmieri, Jean Dallongeville, Eric J Brunner, Gerd Assmann, Maurizio Trevisan, Richard F Gillum, Ian Ford, Naveed Sattar, Mariana Lazo, Simon G Thompson, Pietro Ferrari, David A Leon, George Davey Smith, Richard Peto, Rod Jackson, Emily Banks, Emanuele Di Angelantonio, John Danesh, for the Emerging Risk Factors Collaboration/EPIC-CVD/UK Biobank Alcohol Study Group*



Metaanalyse 2018: „Es gibt keinen risikolosen Konsum!“

Wood, AM et al., Lancet 2018; 391: 1513–23; Published: April 14, 2018 DOI:[https://doi.org/10.1016/S0140-6736\(18\)30134-X](https://doi.org/10.1016/S0140-6736(18)30134-X)

- 83 Studien: ERF Collaboration, EPIC-CVD und U.K. Biobank
- n = 599 912 Teilnehmer, durchschnittlich 7,5 Jahre Follow-up
- n = 40 310 Todesfälle and 39 018 neue Fälle von CVD
- **Resultate:** mehr Alkohol = höheres Risiko für Gesamtsterblichkeit, Schlaganfall, “KHK ohne MI”, Herzinsuffizienz, Tod durch Hypertonie, Tod durch Aortenaneurysma
- **Fazit:** Es sind strengere Grenzwerte für den Alkoholkonsum nötig! Am besten wäre die Empfehlung zur Abstinenz!

Alkoholkonsum und Gesamtmortalität bzw. CVD

Wood, AM et al., Lancet 2018; 391: 1513–23; Published: April 14, 2018 DOI:[https://doi.org/10.1016/S0140-6736\(18\)30134-X](https://doi.org/10.1016/S0140-6736(18)30134-X)

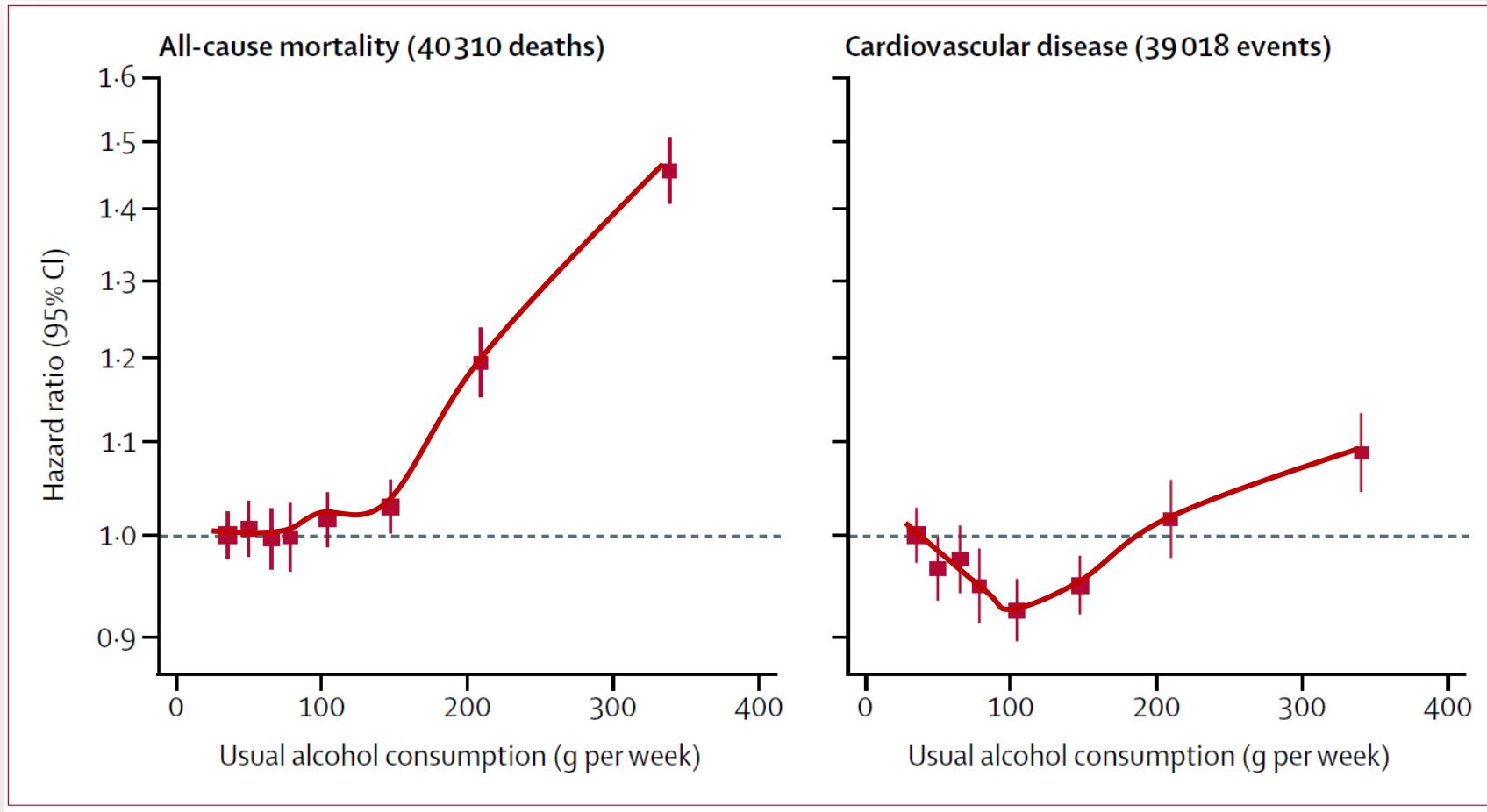


Figure 1: Associations of usual alcohol consumption with all-cause mortality and the aggregate of

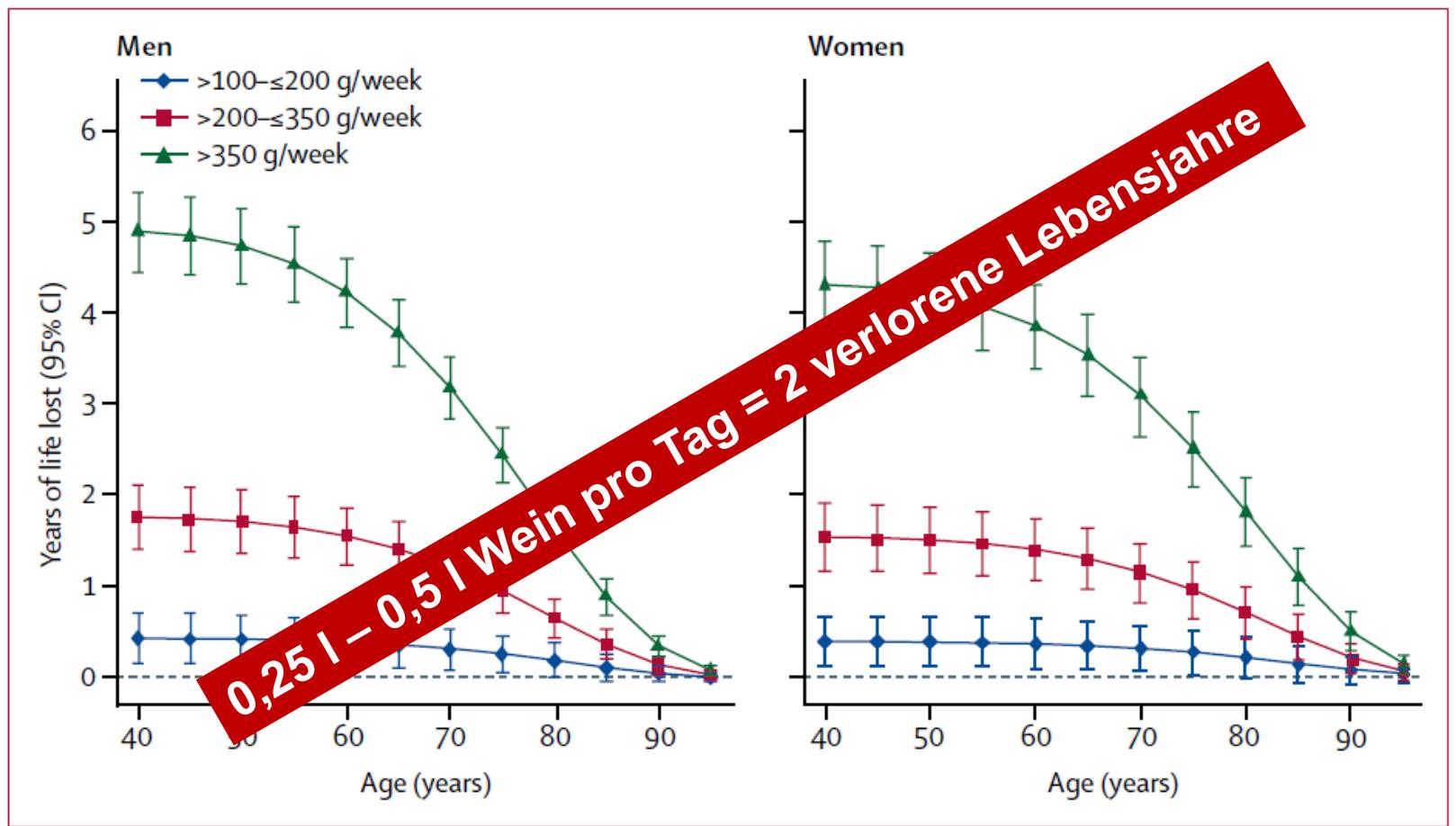


Figure 4: Estimated future years of life lost by extent of reported baseline alcohol consumption compared with those who reported consuming $>0\text{--}\leq 100$ g per week

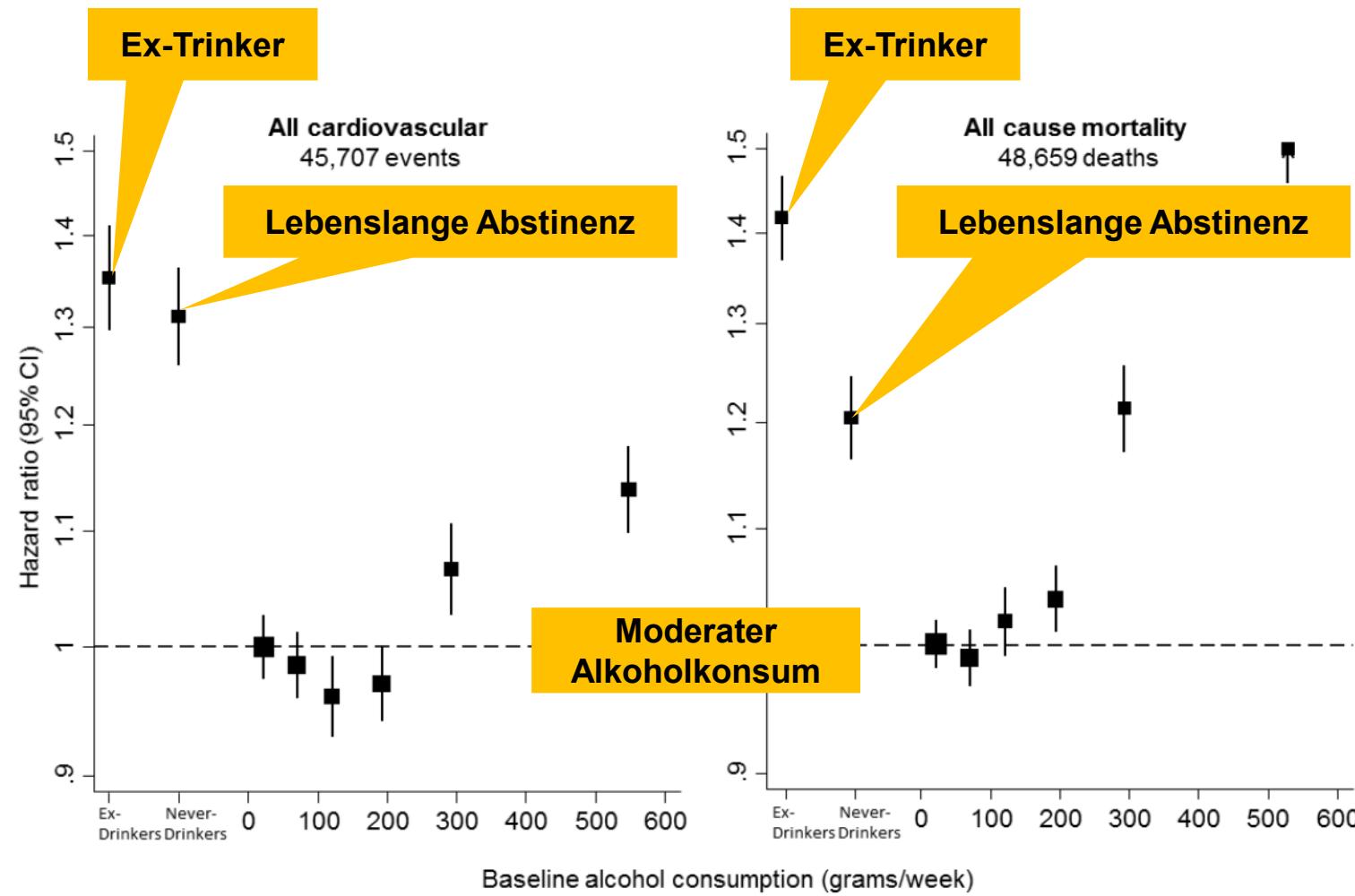
The estimates of cumulative survival from 40 years of age onwards in the alcohol-drinking groups were calculated by applying hazard ratios (specific to age at risk) for all-cause mortality associated with categorised baseline alcohol consumption to US death rates at the age of 40 years or older. Mean usual levels of alcohol consumption within each baseline alcohol consumption category were 56, 123, 208 and 367 g per week, respectively, for the groups $>0\text{--}\leq 100$ g per week, $>100\text{--}\leq 200$ g per week, $>200\text{--}\leq 350$ g per week, and >350 g per week.

Methodik der Wood-Studie: Kritikpunkte

Wood, AM et al., Lancet 2018; 391: 1513–23; Published: April 14, 2018 DOI:[https://doi.org/10.1016/S0140-6736\(18\)30134-X](https://doi.org/10.1016/S0140-6736(18)30134-X)

- Hoher Anteil von **Briten** (Engländer und Schotten trinken „anders“)
- Unpräziser Maßstab: Alkoholkonsum **pro Woche**
- Sehr **heterogene Datenerhebung** in den insgesamt 83 Studien
- Lebenserwartung wurde nicht gemessen, sondern „hochgerechnet“
- Risiko = 1,0 für den moderaten Konsum (1-100 g Alkohol/Woche)
- **Unterschlagung von 186 875 Personen**, die **KEINEN** Alkohol tranken
- Wo stecken die Abstinenzler? **...auf Seite 31 im Supplement**

eFigure 10: Shape of association between baseline alcohol consumption, including ex- and non-drinkers, with all cardiovascular disease and all-cause mortality.



Adjusted for age, smoking and history of diabetes, and stratified by sex and EPIC centre. Alcohol consumption categories amongst current drinkers were >0 - ≤ 50 grams/week, >50 - ≤ 100 grams/week, >100 - ≤ 150 grams/week, >150 - ≤ 250 grams/week, >250 - ≤ 350 grams/week and >350 grams/week. The reference category is the lowest baseline alcohol consumption category (>0 and ≤ 50 g/week). Studies with fewer than five events of any outcome were excluded from the analysis of that outcome. The sizes of the boxes are proportional to the inverse of the variance of the log-transformed hazard ratios. Vertical lines represent 95% CIs. Individuals for whom we were unable to distinguish as ex- or never- drinkers were excluded from the analysis.

Nationale Akademie der Wissenschaften der USA: Review neuer Studien von 2019-2023

National Academies of Sciences, Engineering, and Medicine. 2025. Review of Evidence on Alcohol and Health. Washington, DC: The National Academies Press. <https://doi.org/10.17226/28582>

„Eine wichtige Voraussetzung für diese Datenanalyse war, dass eine Vergleichsgruppe gebildet wurde, die Nie-Trinker von ehemaligen Trinkern trennte, um „Abstinenzverzerrungen“ zu vermeiden.“

Moderater Alkoholkonsum (multivariat adjustiert)

1 Drink/Tag = 14 g/Tag für Frauen

2 Drinks/Tag = 28 g/Tag für Männer



National Academy of Sciences USA: Alkohol und Gesamtsterblichkeit, Review neuer Studien von 2019-2023

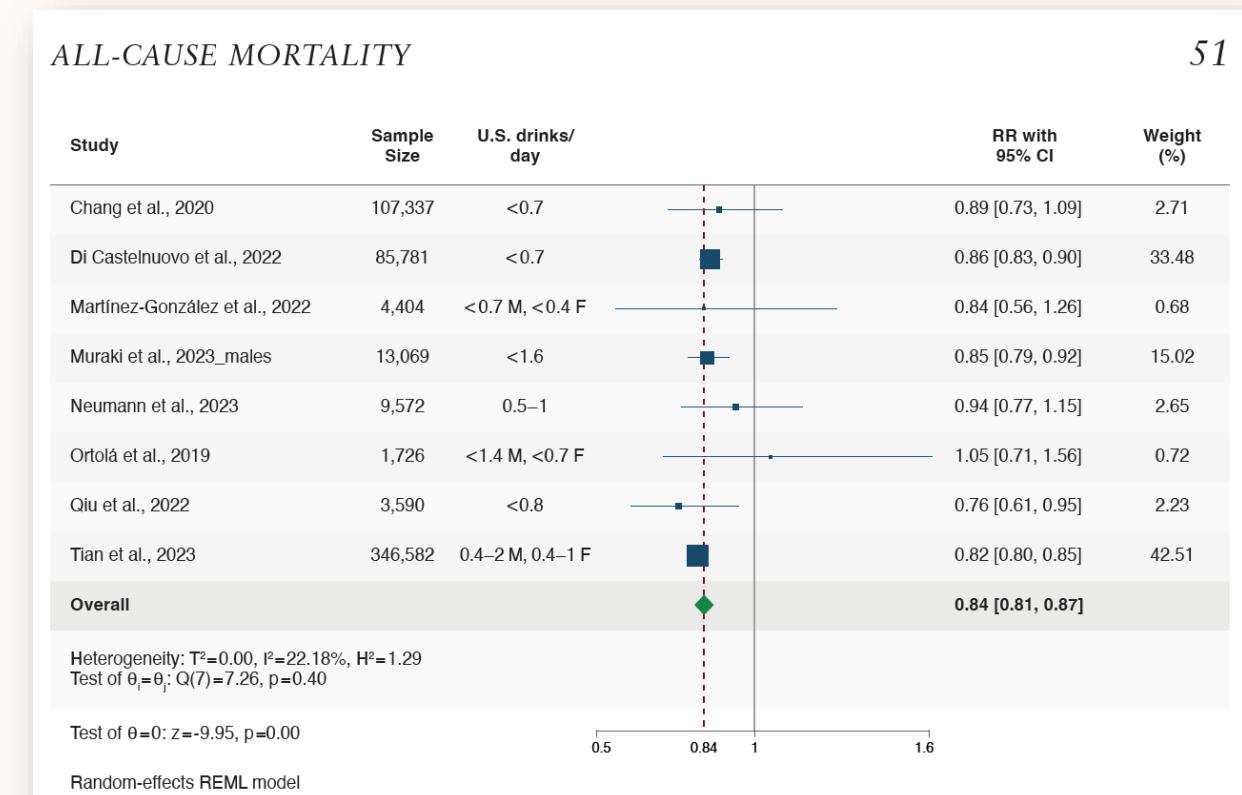
Im Vergleich zu lebenslanger Abstinenz
hatte ein moderater Alkoholkonsum
folgende Relative Risiken:

Herzinfarkt-Todesfälle: -22%

Schlaganfall-Todesfälle: -11%

Herz-Kreislauf-Todesfälle: -18%

Gesamtsterblichkeit: -16%



U.K. Biobank: Wein, „Nicht-Wein-Alkohol“, Kaffee, Tee

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>

- 354 386 Teilnehmende an der UK Biobank Studie
- Mindestens gelegentlicher Alkoholkonsum
- Ausschluss von Todesfällen innerhalb der ersten zwei Jahre
- Follow-up 12 Jahre
- 20 201 Todesfälle über 4,2 Mio. Personen-Jahre
- Unterscheidung in der Abstinenzgruppe Ex-Trinker und Niemals-Trinker
- „Kohorte S1“: Analyse nur für lebenslange Abstinenz

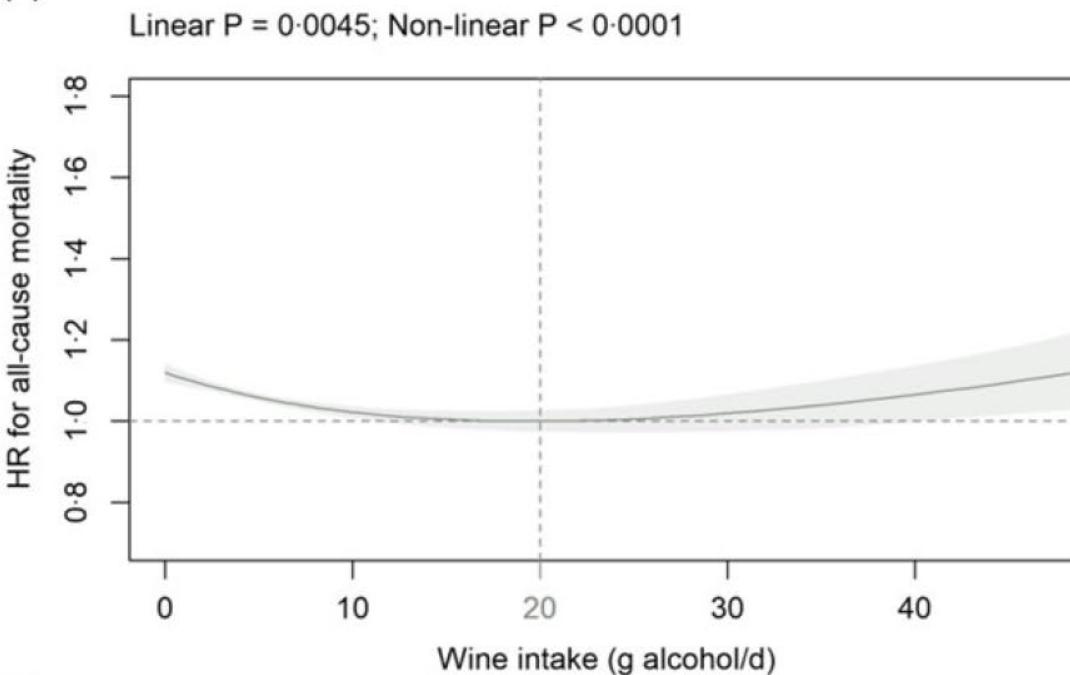
U.K. Biobank: Wein vs. „Nicht-Wein-Alkohol“

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>

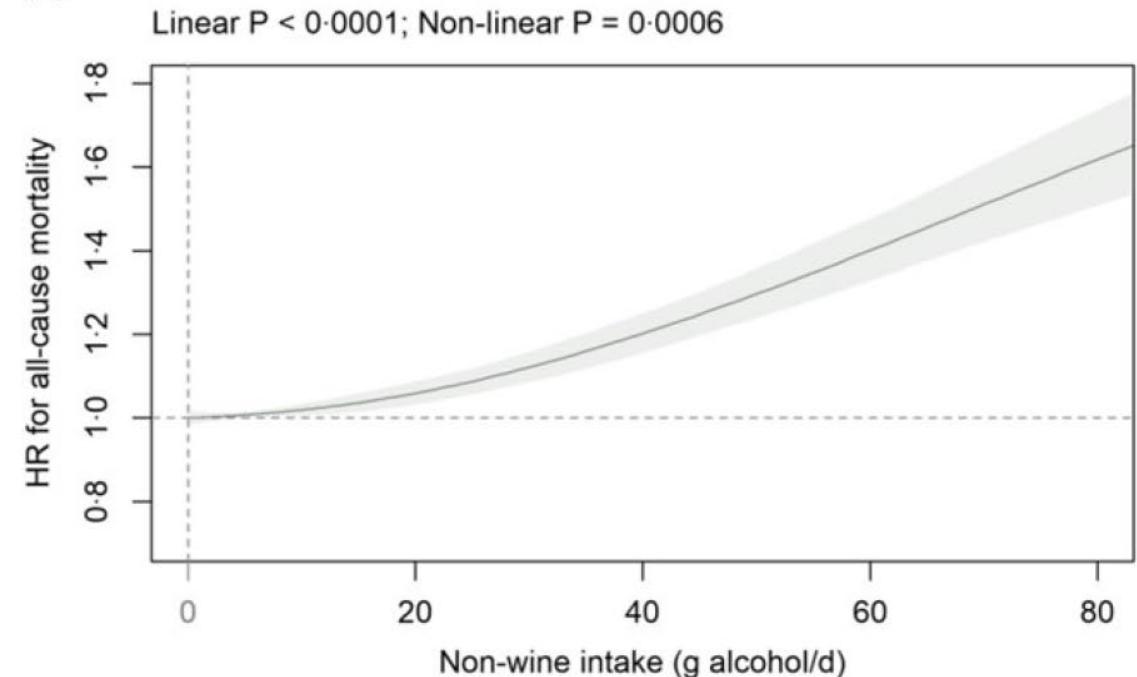
Beverages and mortality

117

(a)

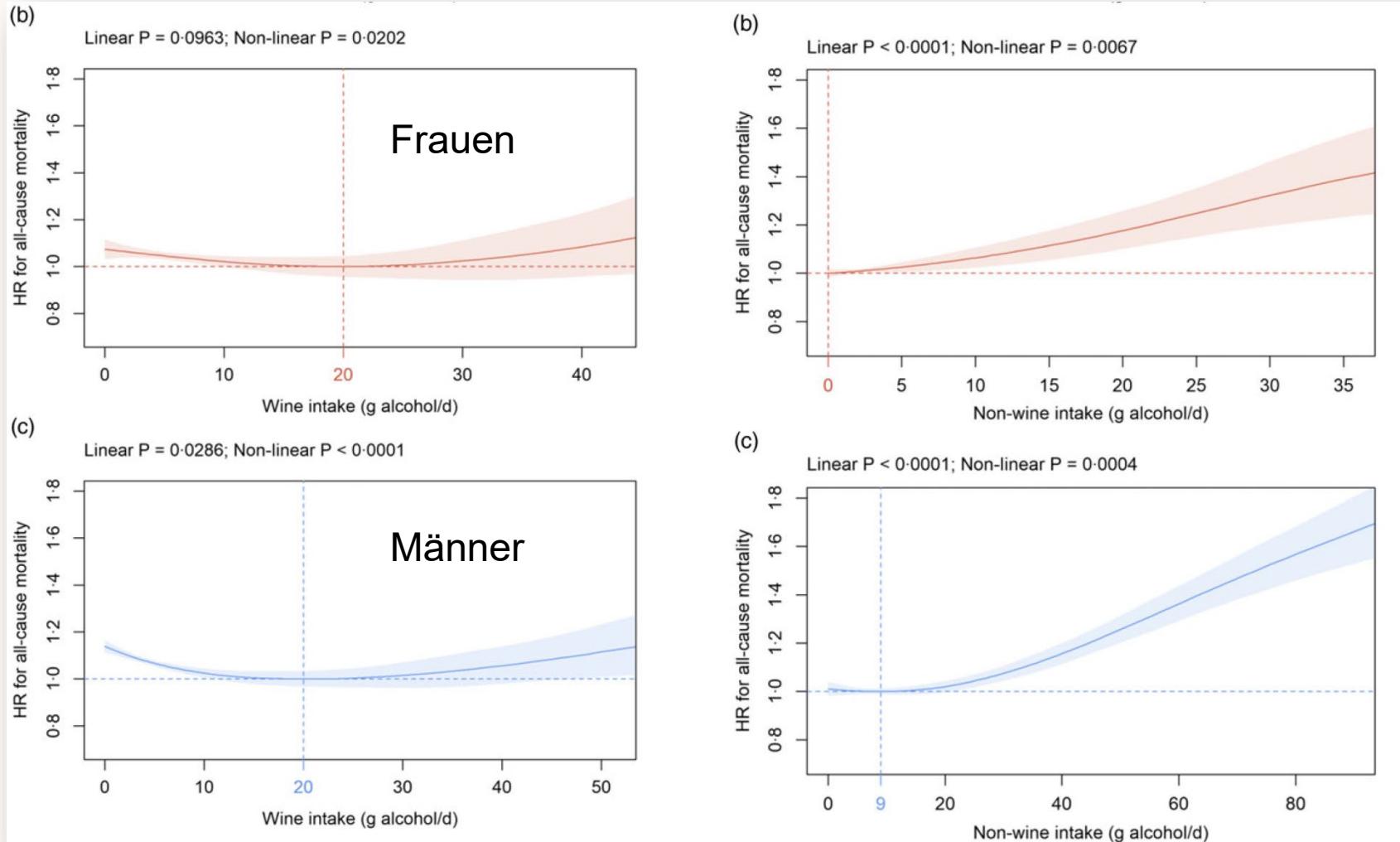


(a)



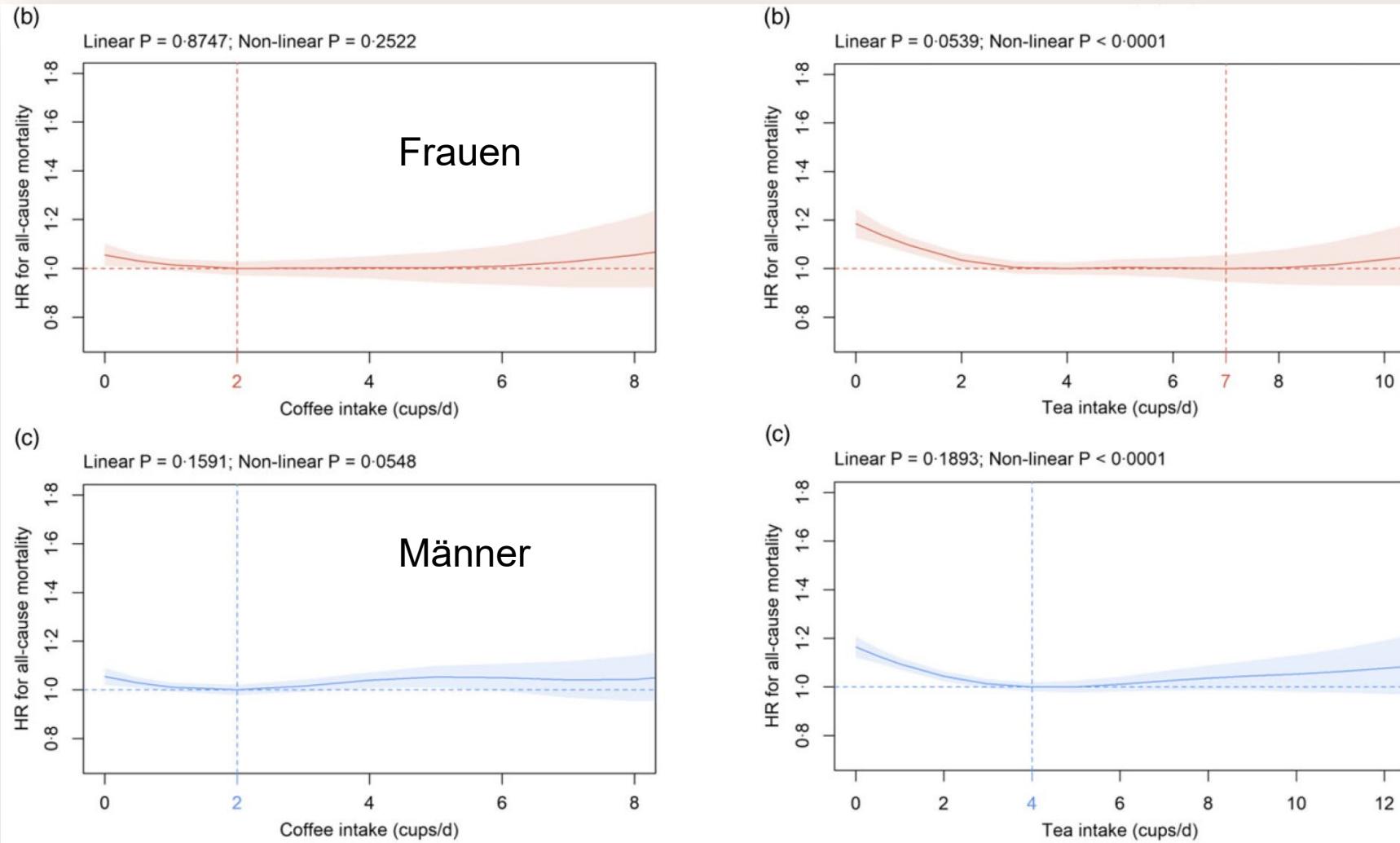
U.K. Biobank: Wein vs. „Nicht-Wein-Alkohol“

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>



U.K. Biobank: Kaffee, Tee

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>



U.K. Biobank: Wein erhöht nicht das Krebsrisiko (Daten wieder nur im Supplement)

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>

Supplementary Table 2 Association of beverage intake with cancer mortality¹

Beverage	Primary cohort								Cohort S1			Cohort S2			
	P ^{lin} / P ^{non-lin}	nadir	HR ⁰	HR at intake						P ^{lin} / P ^{non-lin}	nadir	HR ⁰	P ^{lin} / P ^{non-lin}	nadir	HR ⁰
Wine				10	20	30	40	50	60						
All	0.2978 / 0.2558	14	1.05 (1.02, 1.08)	1.00 (0.98, 1.02)	1.00 (0.97, 1.04)	1.02 (0.96, 1.09)	1.04 (0.96, 1.14)	1.06 (0.94, 1.20)	1.08 (0.91, 1.28)	0.2616 / 0.0600	14	1.07 (1.04, 1.10)	0.3109 / 0.0005	16	1.11 (1.08, 1.13)
Female	0.6086 / 0.7113	4	1.00 (0.95, 1.05)	1.00 (0.97, 1.03)	1.02 (0.96, 1.07)	1.03 (0.93, 1.14)	1.03 (0.88, 1.21)	1.01 (0.79, 1.30)	0.99 (0.69, 1.40)	0.5727 / 0.5197	11	1.04 (1.00, 1.09)	0.6225 / 0.1137	14	1.08 (1.04, 1.12)
Male	0.3748 / 0.0841	17	1.09 (1.06, 1.13)	1.01 (0.98, 1.04)	1.00 (0.95, 1.05)	1.02 (0.95, 1.10)	1.05 (0.95, 1.17)	1.09 (0.94, 1.26)	1.12 (0.93, 1.36)	0.3464 / 0.0595	17	1.10 (1.06, 1.13)	0.3832 / 0.0035	17	1.13 (1.10, 1.16)
Non-Wine				10	20	30	40	50	60						
All	<0.0001 / 0.0610	0	1.00 (0.98, 1.02)	1.02 (1.00, 1.04)	1.06 (1.03, 1.10)	1.13 (1.08, 1.18)	1.21 (1.14, 1.28)	1.30 (1.22, 1.39)	1.40 (1.30, 1.52)	<0.0001 / 0.0602	1	1.00 (0.98, 1.02)	<0.0001 / 0.0537	11	1.02 (1.00, 1.04)
Female	0.0017 / 0.1802	0	1.00 (0.98, 1.02)	1.04 (0.99, 1.10)	1.14 (1.05, 1.25)	1.26 (1.10, 1.44)	1.31 (1.08, 1.58)	1.30 (0.99, 1.70)	1.36 (0.97, 1.90)	0.0020 / 0.3648	3	1.00 (0.98, 1.03)	0.0045 / 0.5583	6	1.02 (1.00, 1.04)
Male	<0.0001 / 0.0728	3	1.00 (0.96, 1.04)	1.01 (0.99, 1.02)	1.03 (1.00, 1.07)	1.09 (1.05, 1.14)	1.18 (1.11, 1.24)	1.28 (1.20, 1.36)	1.38 (1.28, 1.49)	<0.0001 / 0.0530	6	1.00 (0.96, 1.04)	<0.0001 / 0.0182	14	1.04 (1.01, 1.08)

U.K. Biobank: Wein senkt das Herz-Kreislauf-Risiko

Schaefer SM et al., British Journal of Nutrition (2023), 129, 115–125. <https://doi.org/10.1017/S000711452200040X>

Supplementary Table 4 Association of beverage intake with CVD mortality¹

Beverage	Primary cohort								Cohort S1			Cohort S2			
	P ^{lin} / P ^{non-lin}	nadir	HR ⁰	HR at intake					P ^{lin} / P ^{non-lin}	nadir	HR ⁰	P ^{lin} / P ^{non-lin}	nadir	HR ⁰	
Wine				10	20	30	40	50	60						
All	0.7612 / 0.0004	20	1.22 (1.16, 1.28)	1.05 (1.01, 1.08)	1.00 (0.94, 1.06)	1.03 (0.93, 1.15)	1.09 (0.93, 1.27)	1.12 (0.91, 1.38)	1.14 (0.86, 1.50)	0.6862 / <0.0001	19	1.28 (1.22, 1.33)	0.7552 / <0.0001	19	1.32 (1.27, 1.37)
Female	0.4298 / 0.0439	19	1.31 (1.17, 1.46)	1.09 (1.02, 1.16)	1.00 (0.88, 1.15)	1.13 (0.88, 1.45)	1.36 (0.95, 1.96)	1.63 (0.97, 2.74)	1.95 (0.99, 3.83)	0.3496 / 0.0003	19	1.50 (1.36, 1.64)	0.3235 / <0.0001	19	1.51 (1.40, 1.64)
Male	0.9431 / 0.0031	21	1.20 (1.14, 1.26)	1.04 (1.00, 1.08)	1.00 (0.93, 1.08)	1.01 (0.90, 1.14)	1.03 (0.87, 1.22)	1.04 (0.83, 1.30)	1.02 (0.76, 1.39)	0.9504 / 0.0011	21	1.21 (1.15, 1.27)	0.9580 / <0.0001	20	1.25 (1.19, 1.30)
Non-Wine				10	20	30	40	50	60						
All	<0.0001 / 0.5215	4	1.00 (0.96, 1.04)	1.00 (0.97, 1.04)	1.03 (0.97, 1.09)	1.08 (1.01, 1.16)	1.15 (1.05, 1.25)	1.23 (1.11, 1.35)	1.30 (1.16, 1.46)	<0.0001 / 0.4402	12	1.03 (0.99, 1.06)	<0.0001 / 0.1075	16	1.08 (1.05, 1.11)
Female	0.3146 / 0.8300	9	1.03 (0.97, 1.09)	1.00 (0.89, 1.12)	1.05 (0.86, 1.28)	1.18 (0.88, 1.59)	1.30 (0.87, 1.94)	1.34 (0.76, 2.35)	1.33 (0.65, 2.71)	0.3545 / 0.5315	13	1.13 (1.08, 1.18)	0.3239 / 0.4776	13	1.14 (1.09, 1.19)
Male	<0.0001 / 0.4663	6	1.00 (0.94, 1.07)	1.00 (0.98, 1.03)	1.02 (0.98, 1.07)	1.07 (1.01, 1.14)	1.14 (1.06, 1.24)	1.23 (1.12, 1.35)	1.32 (1.18, 1.47)	<0.0001 / 0.4045	11	1.02 (0.96, 1.08)	<0.0001 / 0.1224	17	1.08 (1.03, 1.13)

U.K. Biobank: CVD, CKD, Gesamt mortalität

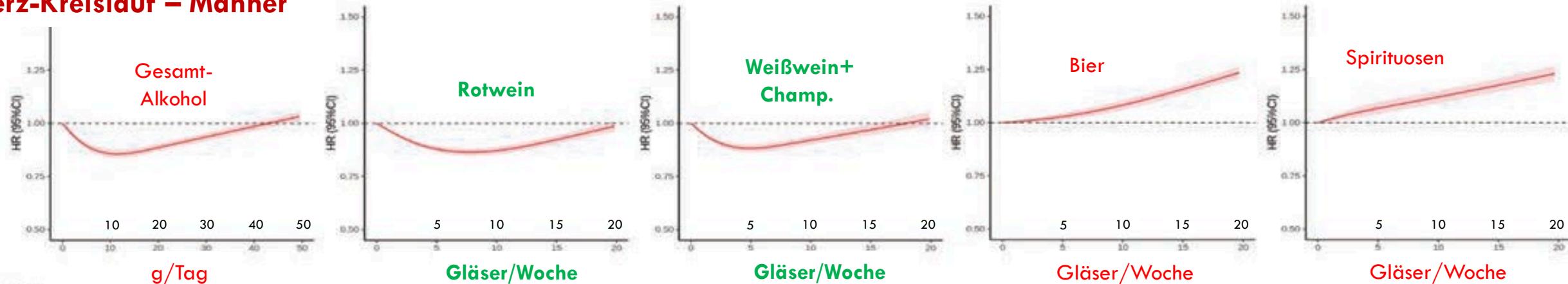
Shao L et al., Medicine 2024; 103(27):e38857. doi: 10.1097/MD.00000000000038857

- UK Biobank, n = 502 490 Teilnehmende
- Erstuntersuchung 2006-2010, Nachuntersuchung 2012-2013
- Fragebogen: Alkohol “gestern”, “pro Woche”, Rotwein, Weißwein, Champagner, Bier, Spirituosen “Fortified Weine”
- Follow-up 12 Jahre
- Endpunkte:
 - Gesamtsterblichkeit: N = 18 923
 - Herz-Kreislauf-Ereignisse: n = 79 558
 - Niereninsuffizienz: n = 2852

U.K. Biobank: CVD, CKD, Gesamt mortalität

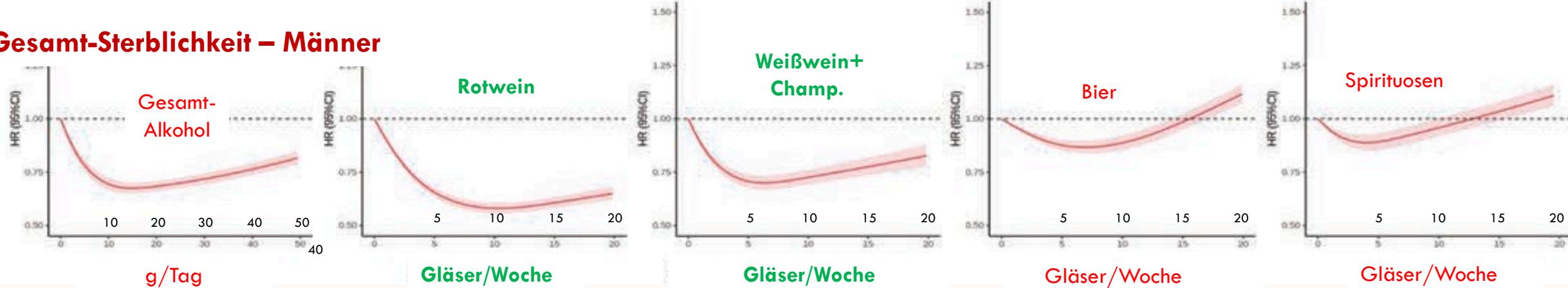
Shao L et al., Medicine 2024; 103(27):e38857. doi: 10.1097/MD.00000000000038857

Herz-Kreislauf – Männer



M

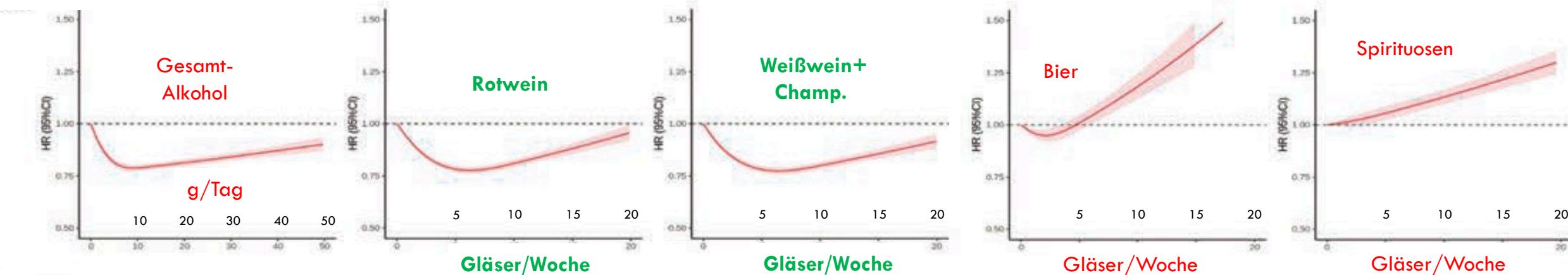
Gesamt-Sterblichkeit – Männer



U.K. Biobank: CVD, CKD, Gesamt mortalität

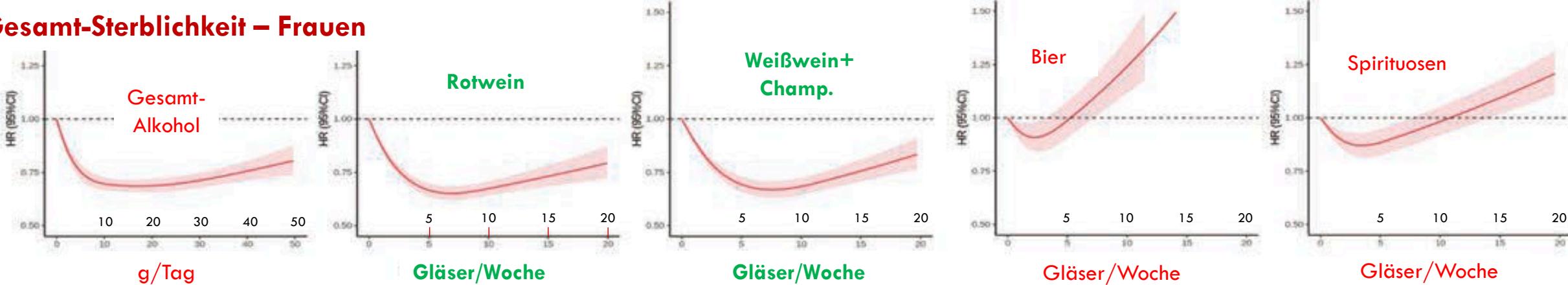
Shao L et al., Medicine 2024; 103(27):e38857. doi: 10.1097/MD.00000000000038857

Herz-Kreislauf – Frauen



M

Gesamt-Sterblichkeit – Frauen



Sichere Alkoholdosis Männer – Ausschluss von Ex-Trinkern (Daten nur im Supplement)

Shao L et al., Medicine 2024; 103(27):e38857. doi: 10.1097/MD.00000000000038857

Supplemental table2A Threshold of safe dose of alcohol consumption for male excluding former drinker. |

	Cutoff	Subgroup	CKD			CVD			All-cause mortality		
			Case/Total	HR(95%CI)	P value	Case/Total	HR(95%CI)	P value	Case/Total	HR(95%CI)	P value
Total alcohol intake	11	0 g/day	4913/146133	1[Ref]	-	12561/34735	1[Ref]	-	4143/48452	1[Ref]	-
		0 - 11 g/day	963/35652	0.87(0.81,0.93)	0.0002	11698/34622	0.86(0.84,0.89)	< 0.0001	3280/46276	0.79(0.75,0.82)	< 0.0001
		more than 11 g/day	653/28279	0.76(0.70,0.83)	< 0.0001	34171/94290	0.94(0.92,0.96)	< 0.0001	9379/126266	0.79(0.76,0.82)	< 0.0001
		0 glasses/week	3641/97195	1[Ref]	-	27286/73493	1[Ref]	-	9389/102188	1[Ref]	-
Red wine intake	7	0 - 7 glasses/week	2166/81731	0.71(0.67,0.75)	< 0.0001	22007/65543	0.86(0.85,0.88)	< 0.0001	5349/86222	0.68(0.66,0.71)	< 0.0001
		more than 7 glasses/week	722/31138	0.61(0.56,0.66)	< 0.0001	9137/24611	0.94(0.92,0.97)	< 0.0001	2064/32584	0.65(0.62,0.68)	< 0.0001
champagne plus white wine intake	5	0 glasses/week	4647/134382	1[Ref]	-	37580/102356	1[Ref]	-	11824/141215	1[Ref]	-
		0 - 5 glasses/week	1416/55777	0.77(0.72,0.81)	< 0.0001	15097/45201	0.89(0.87,0.91)	< 0.0001	3614/58874	0.78(0.75,0.81)	< 0.0001
Beer intake	0	-	6529/210064	0.89(0.87,0.91)	< 0.0001	54390/152502	1.07(1.06,1.07)	< 0.0001	15707/206031	1.1(1.08,1.11)	< 0.0001
		-	6529/210064	0.99(0.97,1.01)	0.2939	58430/163647	1.04(1.03,1.04)	< 0.0001	16802/220994	1.07(1.06,1.08)	< 0.0001
Spirits intake	0	0 glasses/week	6141/195910	1[Ref]	-	58430/163647	1[Ref]	-	16802/220994	1[Ref]	-
		0 - 4 glasses/week	337/12717	0.80(0.71,0.89)	0.0001	3592/10090	0.92(0.89,0.95)	< 0.0001	951/13450	0.89(0.83,0.95)	0.0005
Fortified wine intake	4	more than 4 glasses/week	51/1437	0.90(0.68,1.18)	0.4414	448/1055	1.01(0.92,1.11)	0.7949	144/1513	0.97(0.82,1.14)	0.7137

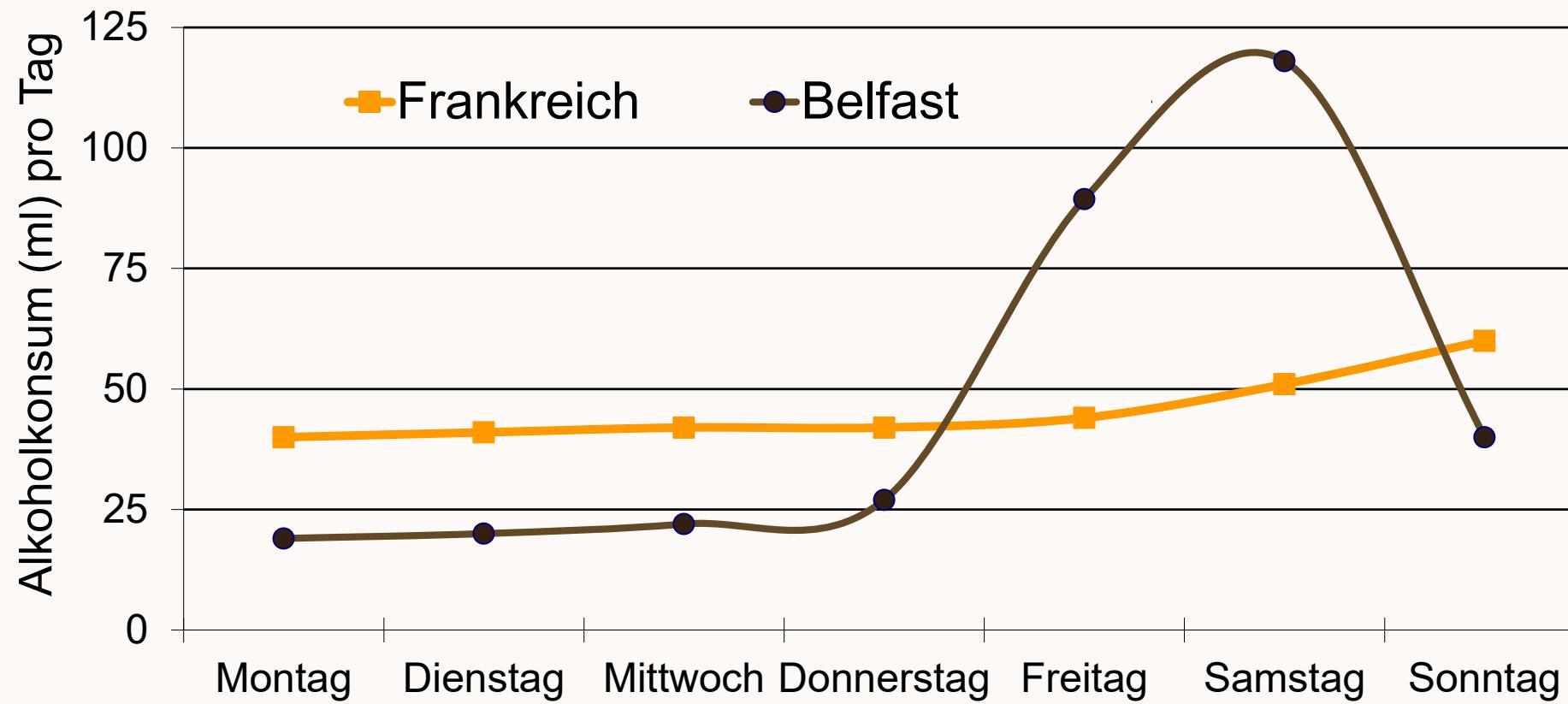
CKD= chronic kidney disease; CVD= cardiovascular disease; HR= hazard ratio; CI= confidence interval.

Adjusted for UK region, the year of examination, age (years), gender (female, male), education level (university, high school, others), smoking status (smoking, not smoking), diet score, and exercise score.

The beer intake and spirits intake was z-transformed. The unit of beer intake was pints/day and spirits intake was glasses/week.

Belfast (Nordirland) und Frankreich in der PRIME-Study 2000

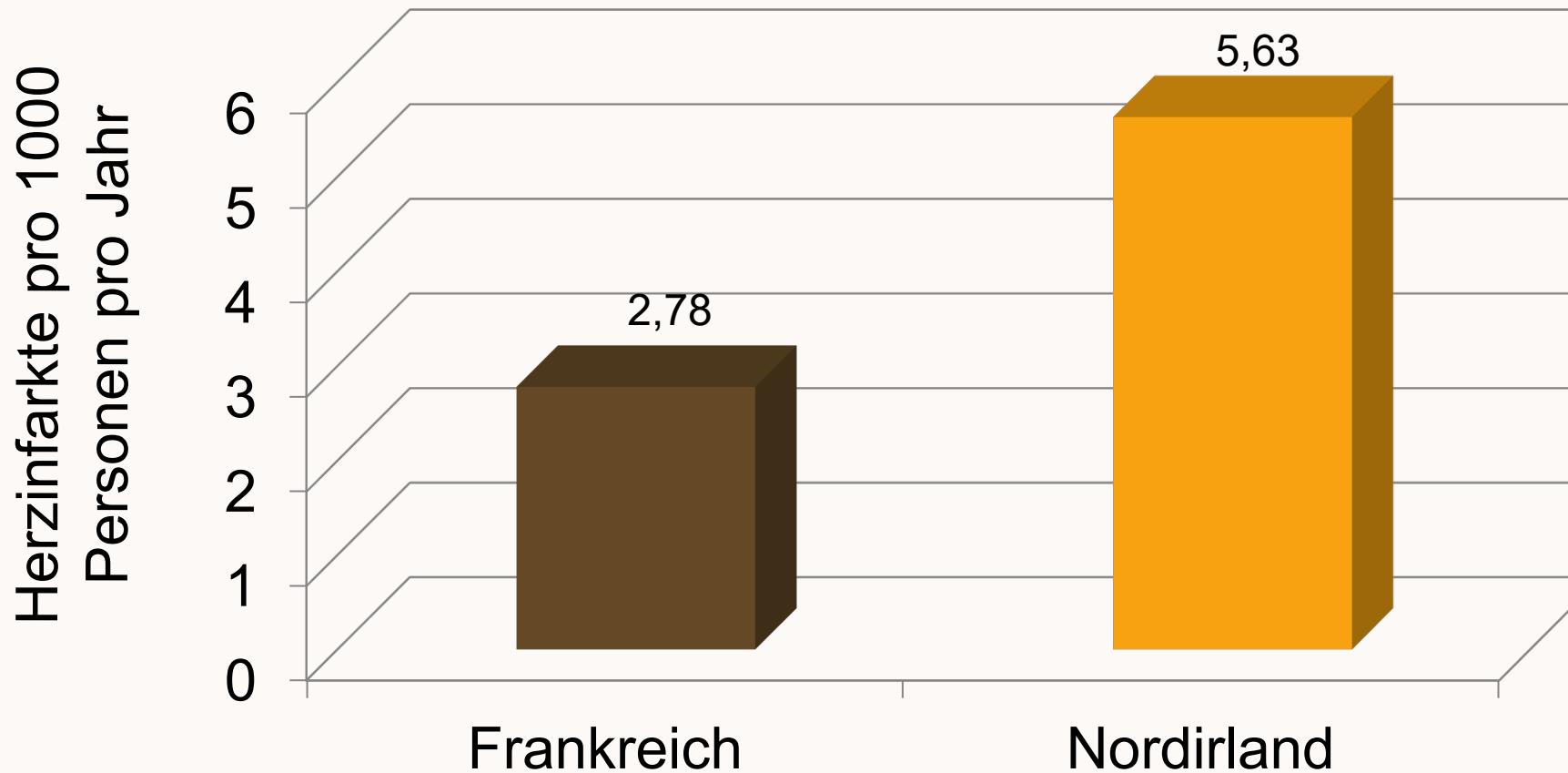
Marques-Vidal, P et al.; Eur J Clin Nutr 2000; 54: 321-328



PRIME-Study 2010: 10 Jahre Follow-up

Trinkmuster und Herzinfarktrate

Ruidavets P et al.; BMJ 2010; 341:c6077 (published 23.11.2010)



Mediterranean Alcohol Drinking Pattern: SUN-Study, Navarra, Spanien

Gea A, Estruch R et. al., British Journal of Nutrition 2014, doi:10.1017/S0007114513004376

Kohortenstudie, 18 394 Teilnehmer, FFQ, Follow-up 12 Jahre, 208 Todesfälle

British Journal of Nutrition, page 1 of 10
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doi:10.1017/S0007114513004376

Mediterranean alcohol-drinking pattern and mortality in the SUN (Seguimiento Universidad de Navarra) Project: a prospective cohort study

Alfredo Gea¹, Maira Bes-Rastrollo^{1,2}, Estefania Toledo^{1,2}, Martin Garcia-Lopez³, Juan J. Beunza^{1,4}, Ramon Estruch^{2,5} and Miguel A. Martinez-Gonzalez^{1,2*}

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(Submitted 2 September 2013 – Final revision received 25 November 2013 – Accepted 13 December 2013)

Table 1. Score of the Mediterranean alcohol-drinking pattern

Items	Criteria	Score
Moderate alcohol intake (g/d)*	Low intake: women > 0–5 g/d; men > 0–10 g/d Moderate intake: women 5–25 g/d; men 10–50 g/d High intake: women > 25 g/d; men > 50 g/d	1 point 2 points 0 points
Alcohol consumption spread out over the week (d/week:g/week ratio)†	Evenly distributed: in Q4 Moderately distributed: in Q2–Q3 Not distributed: in Q1	2 points 1 point 0 points
Low spirit consumption (alcohol from spirits/total alcohol)‡	Low spirit consumption: < 25 % High spirit consumption: ≥ 25 %	1 point 0 points
Wine preference (alcohol from wine/total alcohol)§	Wine preference: ≥ 75 % No wine preference: < 75 %	1 point 0 points
Wine consumed preferably with meals (wine with meals/total wine)	Preferably with meals: ≥ 75 % Out of meals: < 75 %	1 point 0 points
Preference for red wine over other types of wine (red wine/total wine) ¶	Red wine preference: ≥ 75 % No red wine preference: < 75 %	1 point 0 points
No excess consumption (maximum drinks in a single occasion)**	No excess: ≤ 5 drinks in a single occasion Any excess: > 5 drinks in a single occasion	1 point 0 points

Alcohol drinking pattern and mortality

5

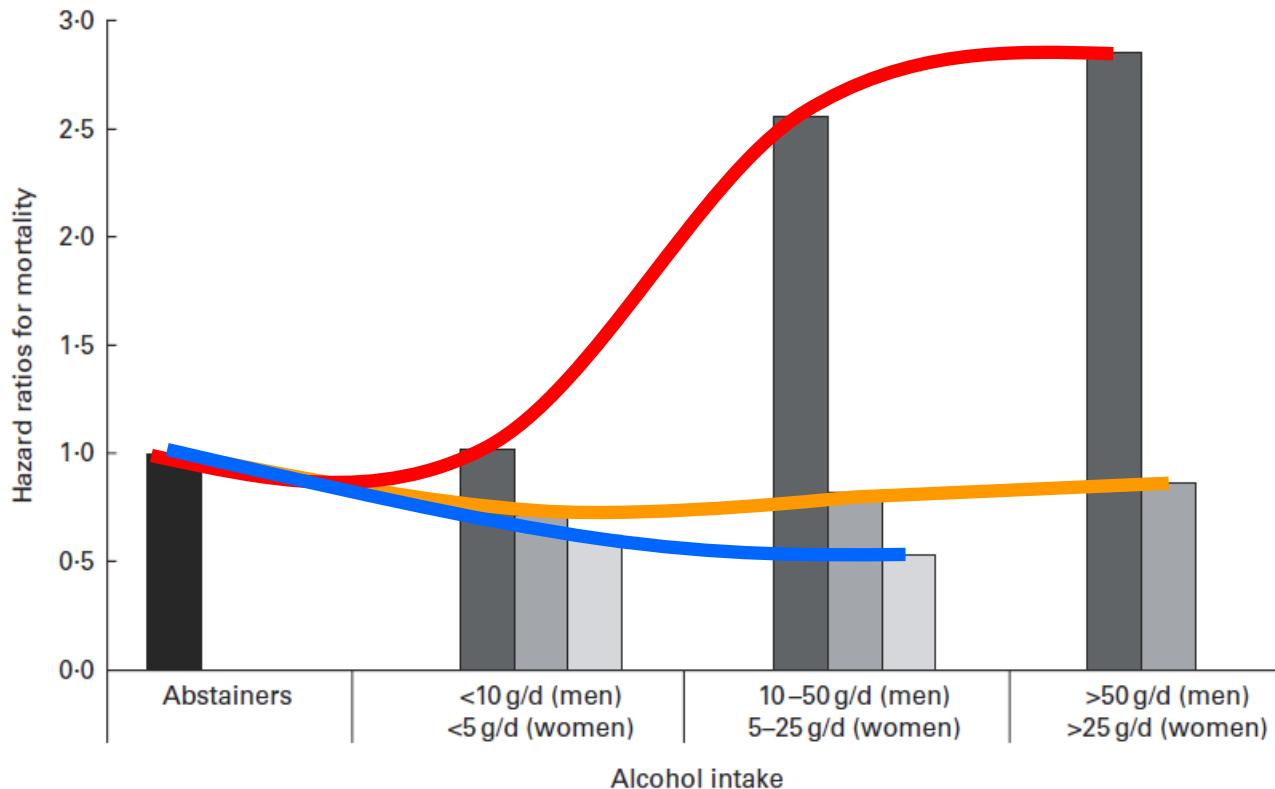


Fig. 2. Hazard ratios for mortality according to the categories of the Mediterranean alcohol-drinking pattern (MADP) within each category of alcohol intake in the Seguimiento Universidad de Navarra (SUN) Project 1999–2012. ■, Low MADP (0–2); □, moderate MADP (3–6); □, high MADP (7–9). Adjusted for age, sex, BMI (kg/m^2), total energy intake (kJ/d), physical activity (metabolic equivalent task-h/week), prevalent hypertension, prevalent hypercholesterolaemia, smoking habit (current smoker, former smoker or never smoker), Mediterranean dietary pattern (tertiles of adherence), prevalent or previous cancer, diabetes or CVD, and watching television (h/week).

Meta-Analyse Alkohol und Gesamt-Mortalität

Di Castelnuovo A et al., Arch Intern Med. 2006;166:2437-2445

REVIEW ARTICLE

Alcohol Dosing and Total Mortality in Men and Women

An Updated Meta-analysis of 34 Prospective Studies

Augusto Di Castelnuovo, ScD; Simona Costanzo, ScD; Vincenzo Bagnardi, ScD;
Maria Benedetta Donati, MD, PhD; Licia Iacoviello, MD, PhD; Giovanni de Gaetano, MD, PhD

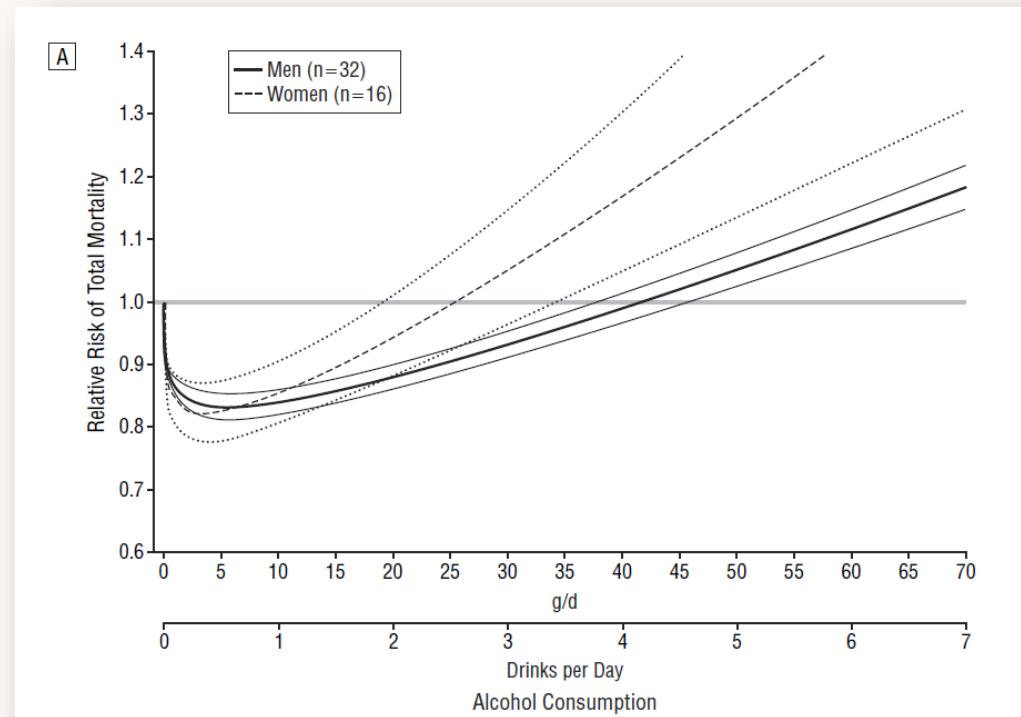
Background: Moderate consumption of alcohol is inversely related with coronary disease, but its association with mortality is controversial. We performed a meta-analysis of prospective studies on alcohol dosing and total mortality.

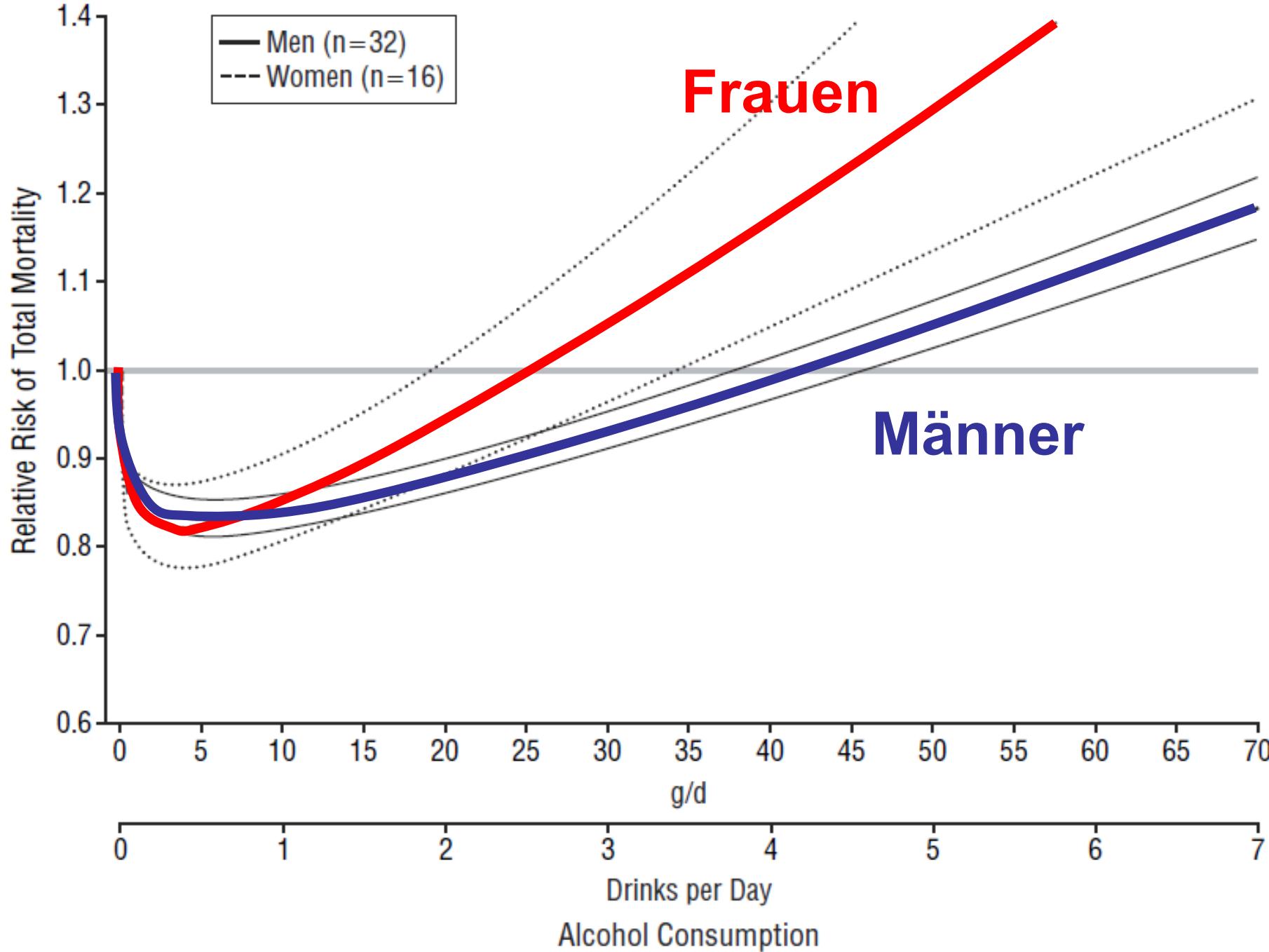
18% in women (99% confidence interval, 13%-22%) and 17% in men (99% confidence interval, 15%-19%). Higher doses of alcohol were associated with increased mortality. The inverse association in women disappeared at doses lower than in men. When adjusted and unadjusted data

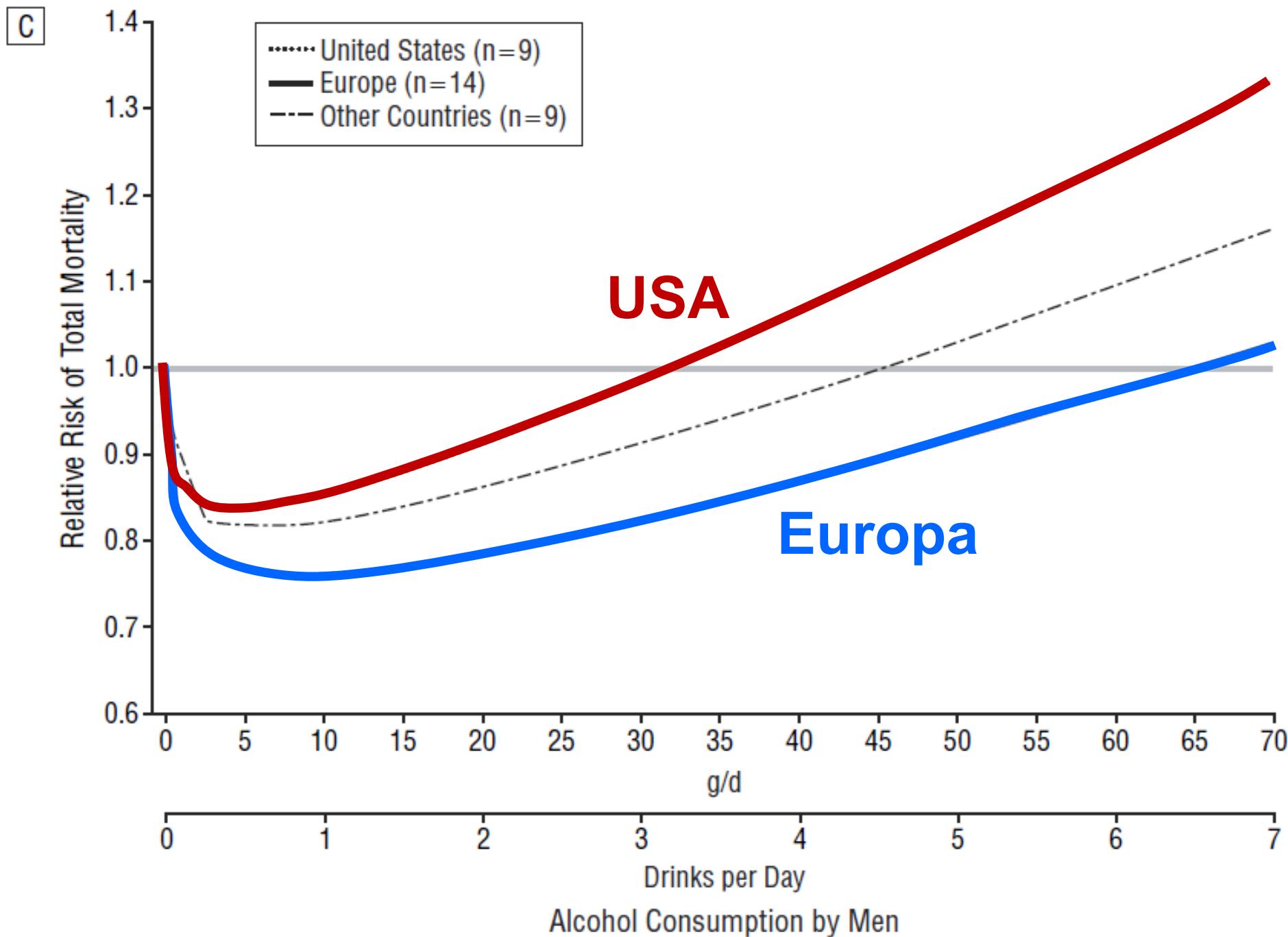
Meta-Analyse Alkohol und Gesamt-Mortalität

Di Castelnuovo A et al., Arch Intern Med. 2006;166:2437-2445

- Meta-Analyse von 34 Studien, n = 1 015 835 Teilnehmer
- Follow-up 5,5 – 26 Jahre, 94 533 Todesfälle

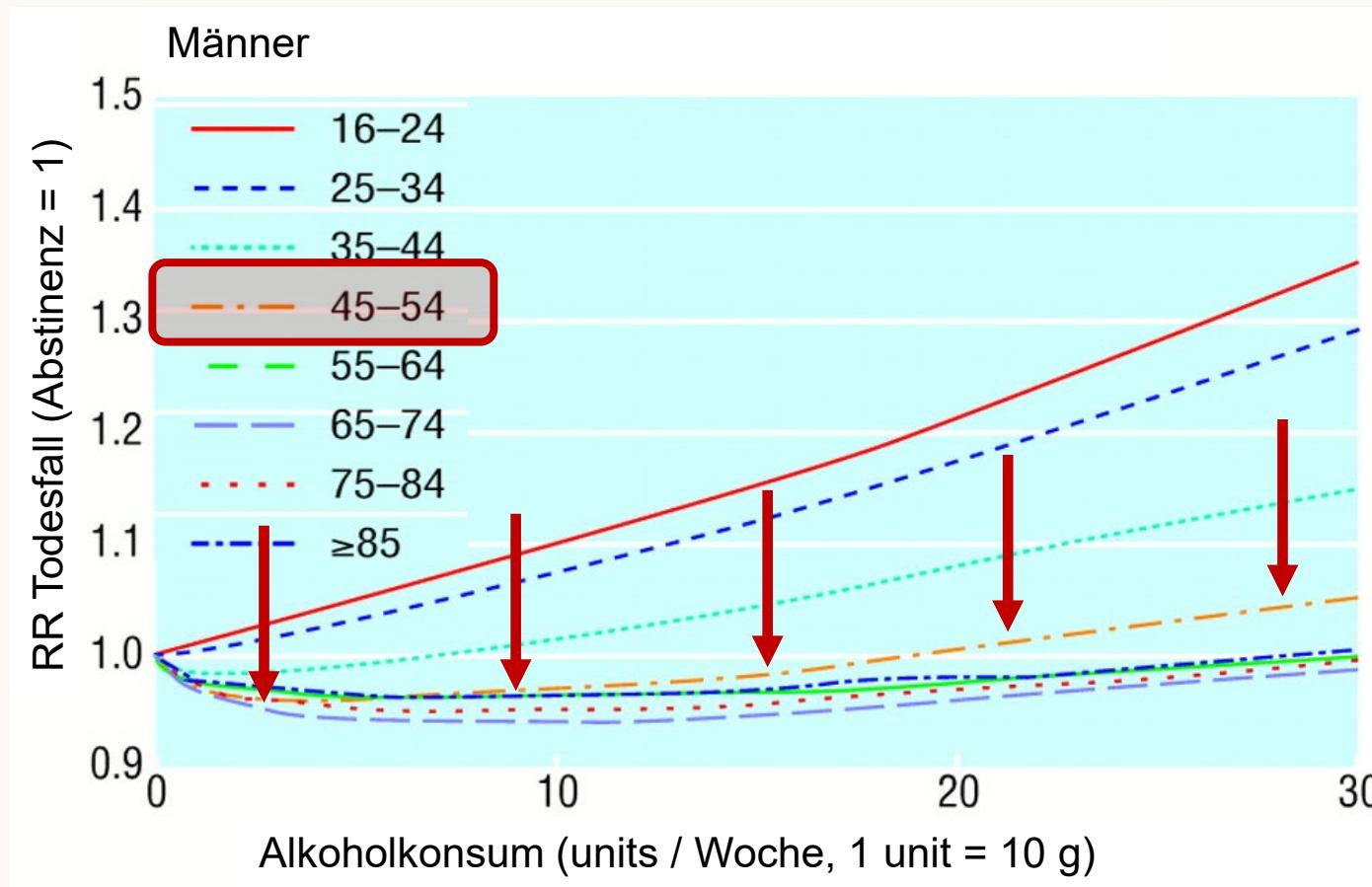


A



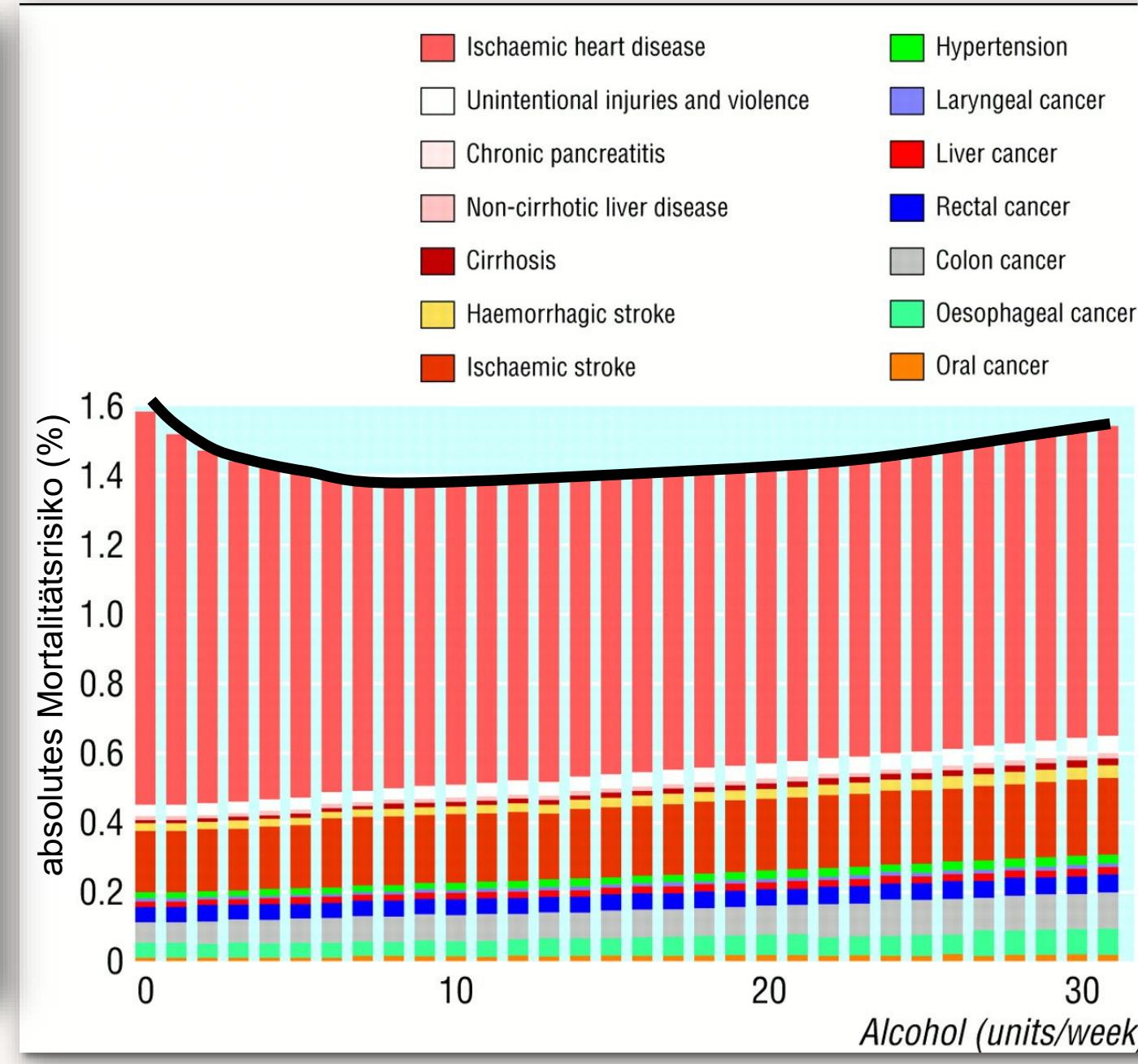
Alkoholkonsum und Todesfallrisiko: Risikomodelle nach Alter und Geschlecht

White et al., BMJ 2002; 325: 191-198



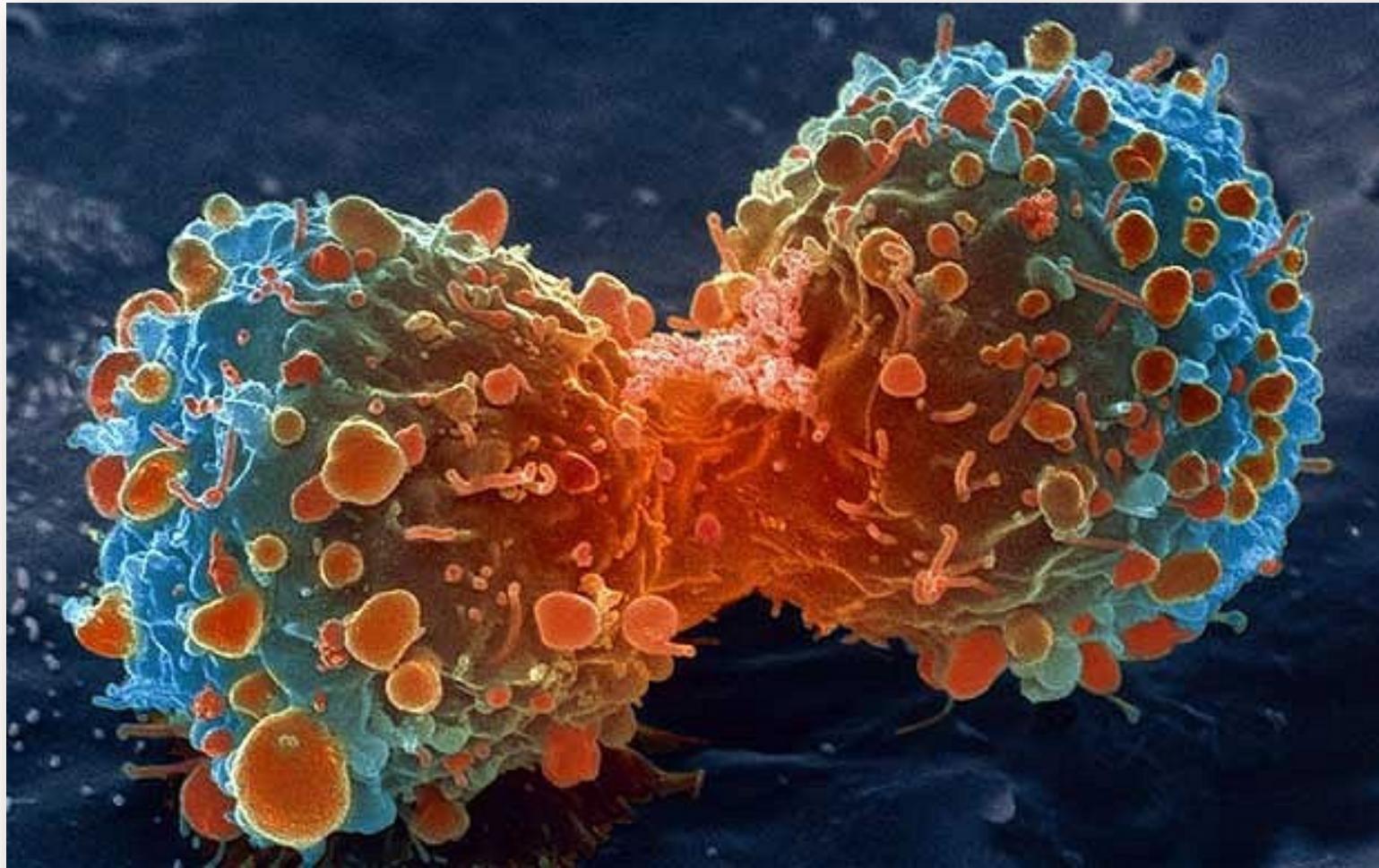
White et al., BMJ 2002; 325: 191-198

Fig 3 Derivation of all cause risks for men aged 65-74. Height of each bar is total risk of all alcohol related causes. Non-alcohol related causes not shown



KHK
Apoplex
Krebs

Alkohol und Krebserkrankungen





Dr. Jürgen Rehm

Senior Scientist

Institute for Mental Health Policy Research

Review 2019: Alkohol und Krebsrisiko

Rehm J et al., Curr NutrRep 2019; published online 20.03.2019, <https://doi.org/10.1007/s13668-019-0267-0>

CANCER (MF LEITZMANN, SECTION EDITOR)



Does Alcohol Use Affect Cancer Risk?

Jürgen Rehm^{1,2,3,4,5,6,7} • Isabelle Soerjomataram⁸ • Carina Ferreira-Borges⁹ • Kevin D. Shield^{1,3,4}

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Abstract

Purpose of Review To provide an overview of the risk relationships between alcohol use and cancer and of the alcohol-attributable cancer burden; to highlight areas of controversy in the alcohol–cancer relationship; to examine the reasons why these risk relationships have not received greater public attention.

Recent Findings In 2016, alcohol caused an estimated 376,200 cancer deaths, 10.0 million cancer years of life lost (YLLs), 236,600 cancer years lived with disability (YLDs), and 10.3 million cancer disability-adjusted years of life (DALYs), representing 4.2%, 4.2%, 4.6%, and 4.2% of all deaths, YLLs, YLDs, and DALYs lost due to cancer, respectively, proportionally highest in high- and upper-middle-income countries.

Summary Alcohol use is a major contributor to cancer and is linked to the most prevalent types of cancer. No threshold for the effects of alcohol on cancer has yet been identified, and thus, abstinence is best for cancer prevention. Greater public awareness of the relationship between alcohol use and cancer is advisable.

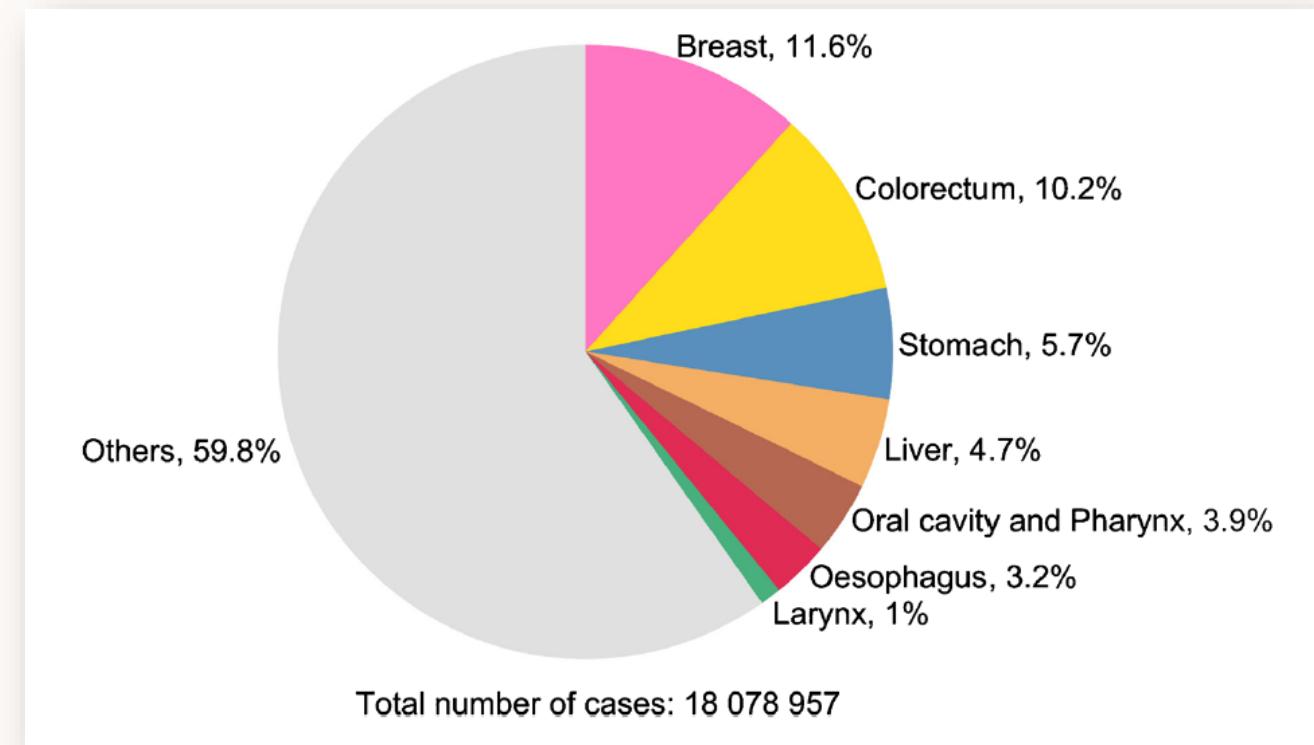
Mit dem Alkoholkonsum assoziierte Krebstypen

(Quelle: Global Cancer Observatory, WHO)

Rehm J et al., Curr NutrRep **2019**; published online 20.03.2019, <https://doi.org/10.1007/s13668-019-0267-0>

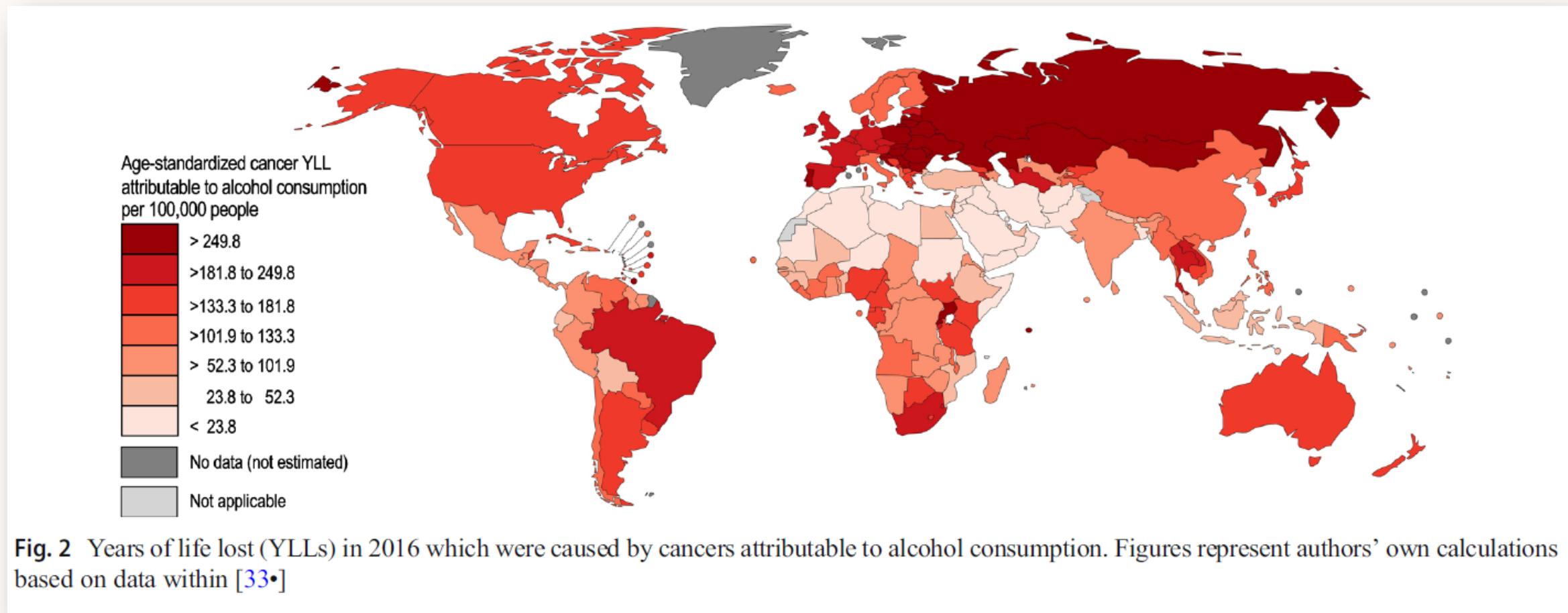
Mechanismen:

- lokal toxisch in hoher Konzentration:
Mund, Pharynx, Larynx, Oesophagus, Magen, v.a. kombiniert mit Rauchen
- Acetaldehyd beim Abbau:
intermediäres Zellgift, allgemein
- Steigerung der Oestrogen-Spiegel:
Mamma-CA ja, aber nicht Ovarial-CA



Quantifizierung des Krebsrisikos durch Alkoholkonsum

Rehm J et al., Curr NutrRep 2019; published online 20.03.2019, <https://doi.org/10.1007/s13668-019-0267-0>

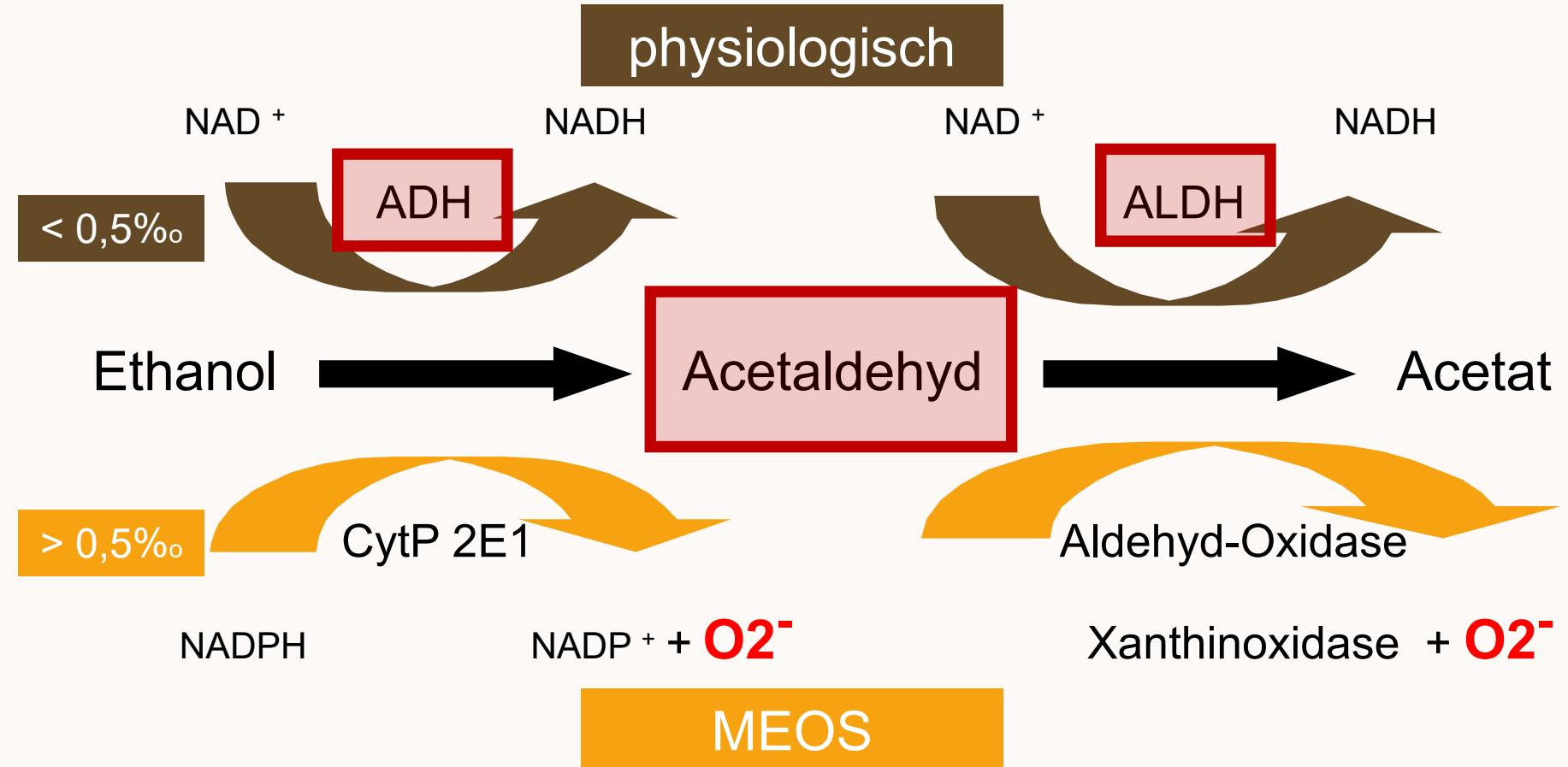


Alkoholmetabolismus

nach: Sleisenger, M H et al.; Gastrointestinal and Liver Diseases, 5. Aufl. 1997

Risiko vs. Nutzen

- Tabak ja/nein
- Essen? Was?
- Alkoholmenge + Trinkzeit = Alkoholspiegel
- ADH-Subtyp 1/2
- ALDH-Subtyp 1/2
- Genetik, Familie, Begleiterkrankung



Alkoholkonsum in Deutschland (2016)

WHO 2018; https://www.who.int/substance_abuse/publications/global_alcohol_report/profiles/deu.pdf?ua=1, accessed **21.07.2019**

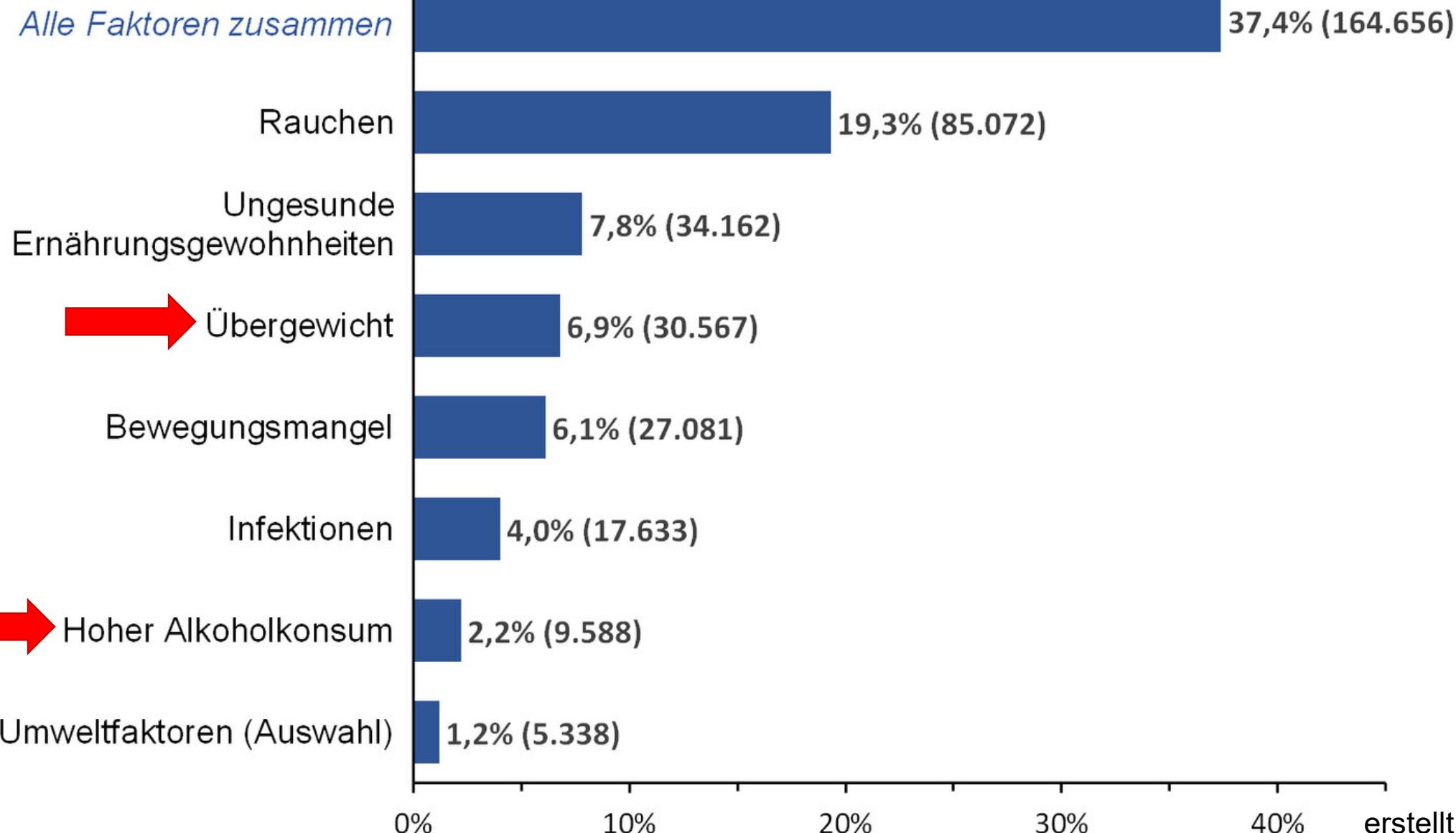
Age-standardized death rates (ASDR) and alcohol-attributable fractions (AAF), 2016

	ASDR*	AAF (%)		AAD** (Number)
Liver cirrhosis, males / females	18.9	7.8	78.6	66.4 11 115
Road traffic injuries, males / females	6.0	2.4	48.0	33.7 1 424
Cancer, males / females	198.9	131.0	8.0	4.0 14 596

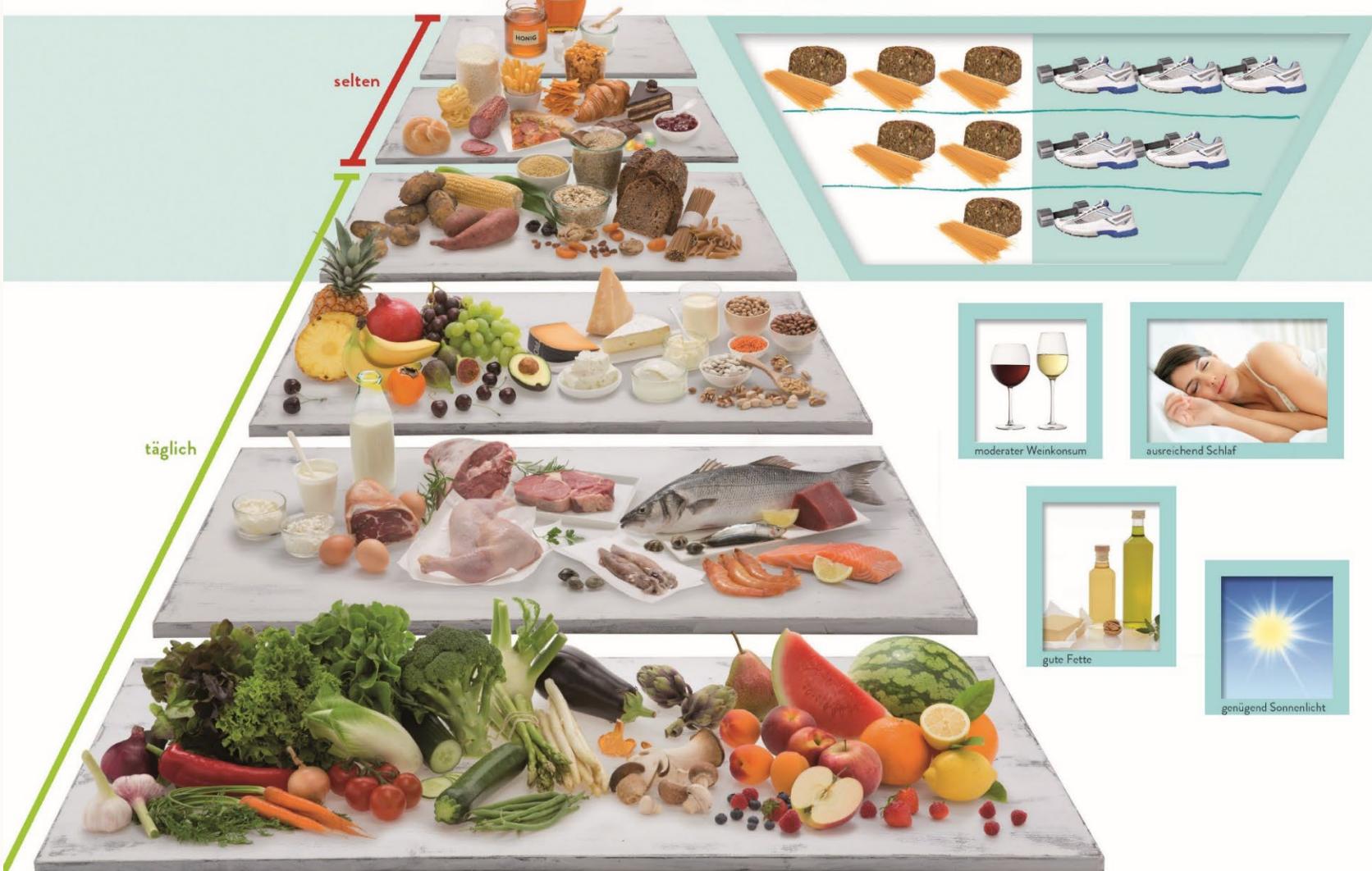
*Per 100 000 population (15+); **alcohol-attributable deaths, both sexes.

Zusätzliche Krebstodesfälle **pro 100 000: 16 Männer, 5 Frauen**

Zahlen und Anteile der durch vermeidbare Krebsrisikofaktoren bedingten Krebsfälle in Deutschland 2018



DIE *Flexi-CARB-PYRAMIDE*



Flexi-Carb-Pyramide gewichtet nach Energiedichte, Nährstoffdichte, Kohlenhydrate/Gl., Verarbeitungsgrad, nach Worm/Lemberger/Mangiameli © riva Verlag, 2015

A scenic view of a vineyard and a church in autumn. The foreground shows the dark roofs and spires of a Gothic church. The middle ground is a vast, rolling vineyard with rows of grapevines. In the background, there are hills covered in autumn-colored trees and a small, square stone tower on a hilltop. The sky is blue with some white clouds.

Moderater Weingenuss als Teil eines gesunden Lebensstils

Dr. med. Johannes Scholl
www.preventionfirst.de