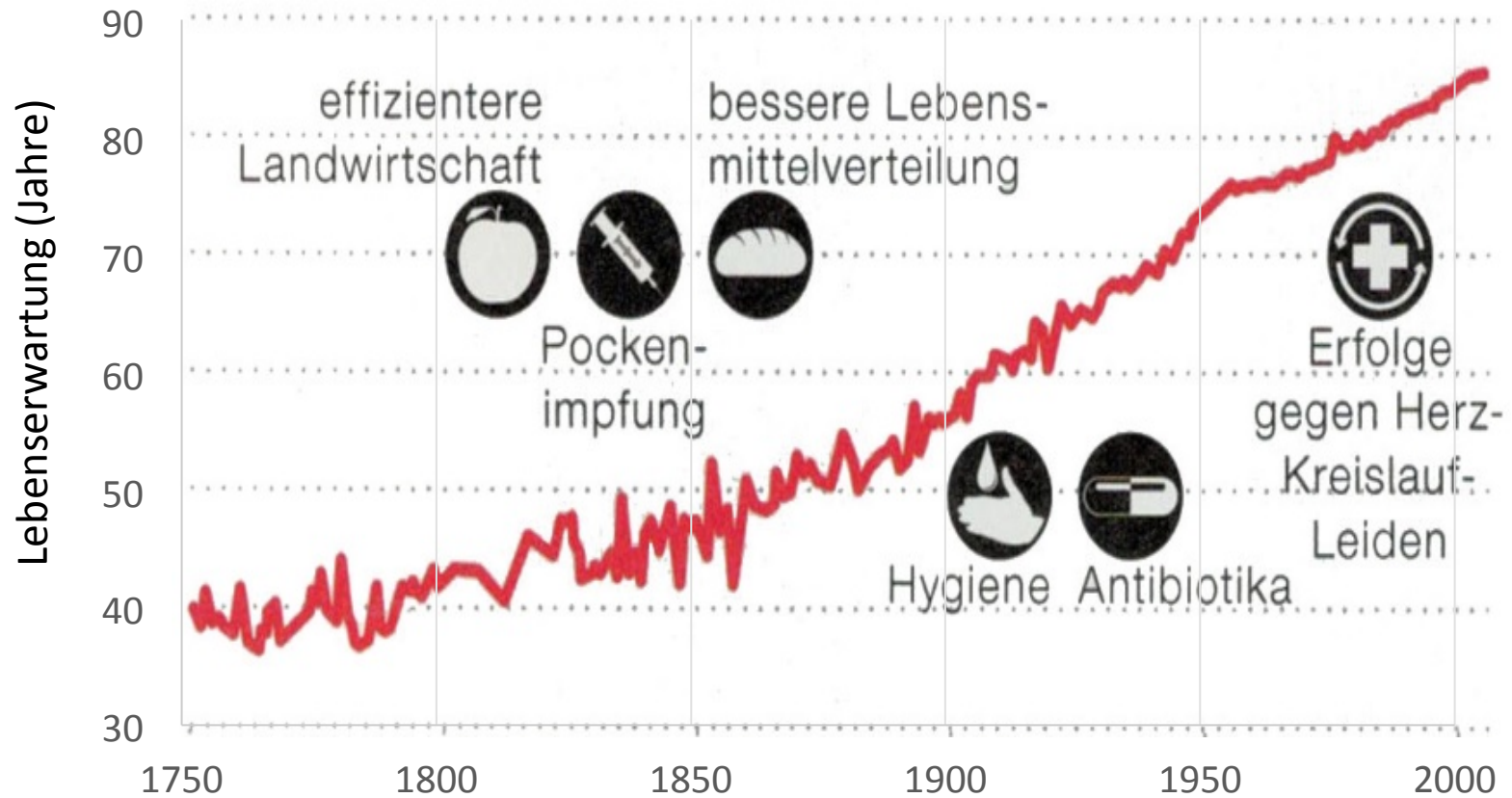


Kardiologie Symposium Hirslanden 2015

Der ältere Patient im «Machbarkeitswahn» ... die Sicht des Kardiologen ...

Dr. Martin Peter
Chefarzt Medizin Luzerner Kantonsspital Wolhusen

Lebenserwartung seit 1750



The Iran Opportunity / E-Cigarettes / \$20K Homes

TIME

CAN
Google
SOLVE

DEATH?

The search giant is launching a venture
to extend the human life span.

That would be crazy—if it weren't Google

By Harry McCracken and Lev Grossman

10.15.10



Google

Calico

Deutschland

Ewiges Leben

Google-Suche

Auf gut Glück!





Unsterblich ?

Unsterblichkeitskraut
(Jiagoulan)

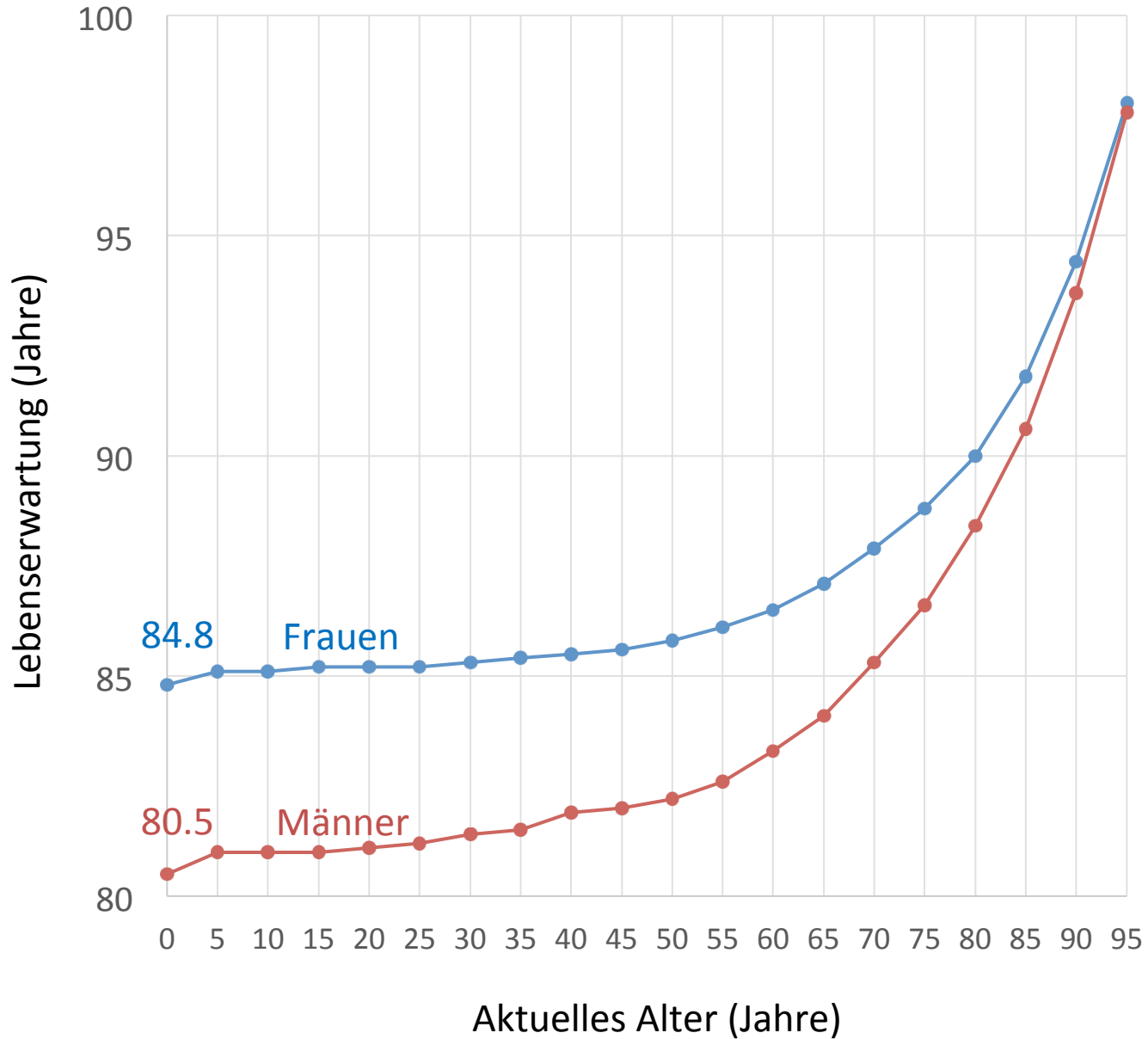


Langlebig !

«Ich habe nur
eine einzige Falte
und das ist die,
auf der ich sitze»

Jeanne Calment (1875–1997)

Lebenserwartung in Abhängigkeit vom Alter



Was ist für einen Kardiologen machbar? Wo sind die Grenzen?

1. Risikofaktoren beeinflussen

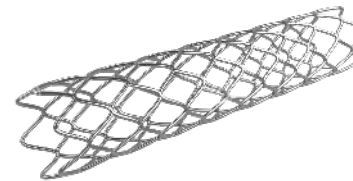


Hypertonie
Diabetes
Nikotin
Cholesterin

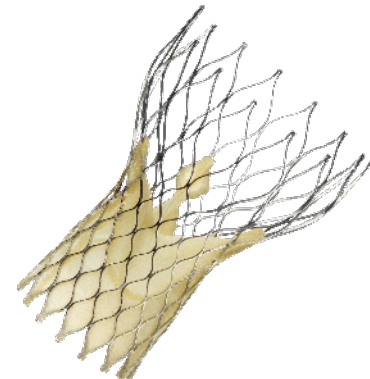
2. Kardial intervenieren



SM / ICD



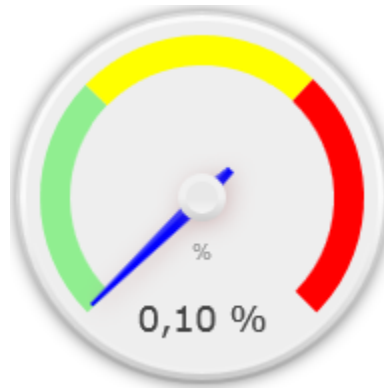
Stent



TAVI

10-jahres-Risiko für Herzinfarkt beim 25-jährigen Mann

BD_{sys} 140
LDL 2.5
Ø D.m.
Ø Nikotin
Ø FA
BMI <25

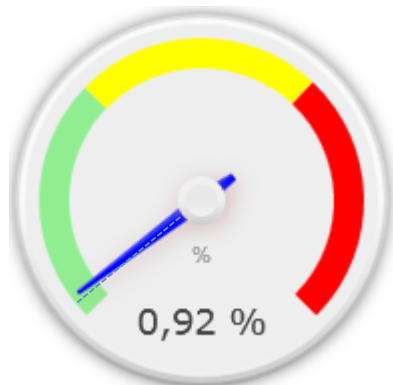
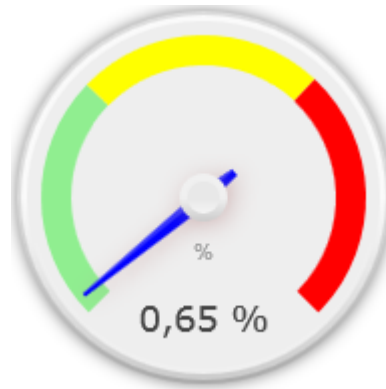


PROCAM-Studie → AGLA Risikokalkulator

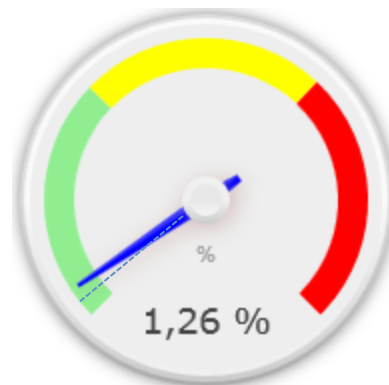
- PROCAM = Prospective Cardiovascular Münster Study
- Globalrisiko für Herzinfarkt oder plötzlichen Herztod innerhalb der nächsten 10 Jahre
- Seit 1978, >50'000 Personen
- Männer & Frauen 20-75 jährig

10-jahres-Risiko für Herzinfarkt beim 35-jährigen Mann

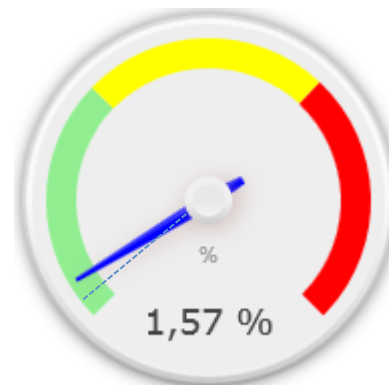
BD_{sys} 140
LDL 2.5
Ø D.m.
Ø Nikotin
Ø FA
BMI <25



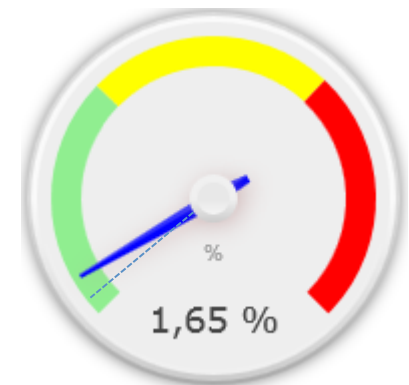
BD_{sys} 180



D.m.



Nikotin

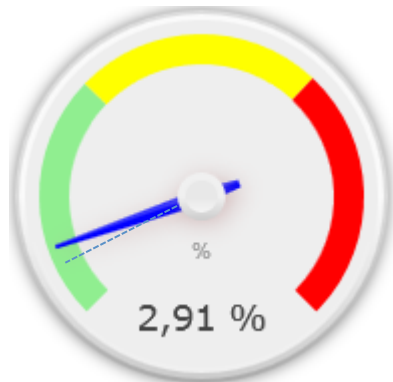
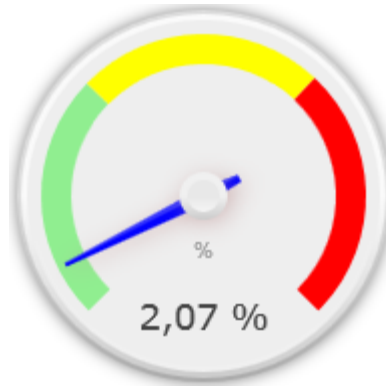


LDL 4.3

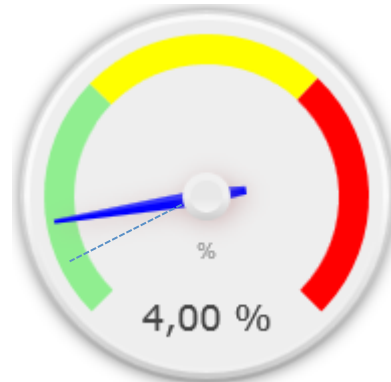
NNT RR
371 - 29%

10-jahres-Risiko für Herzinfarkt beim 45-jährigen Mann

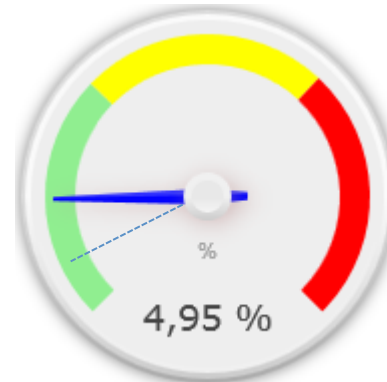
BD_{sys} 140
LDL 2.5
Ø D.m.
Ø Nikotin
Ø FA
BMI <25



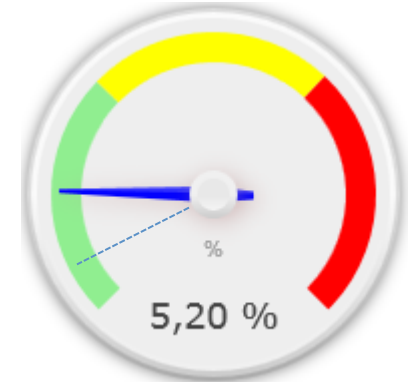
BD_{sys} 180



D.m.



Nikotin



LDL 4.3

NNT RR
120 - 29%

10-jahres-Risiko für Herzinfarkt beim 55-jährigen Mann

BD_{sys} 140

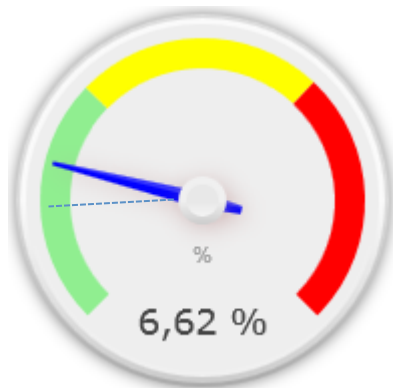
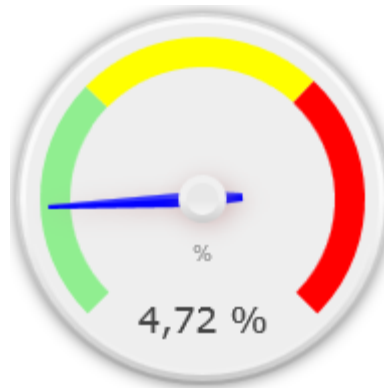
LDL 2.5

Ø D.m.

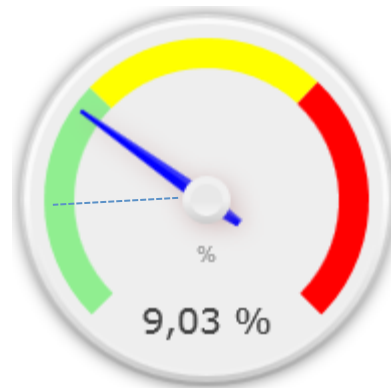
Ø Nikotin

Ø FA

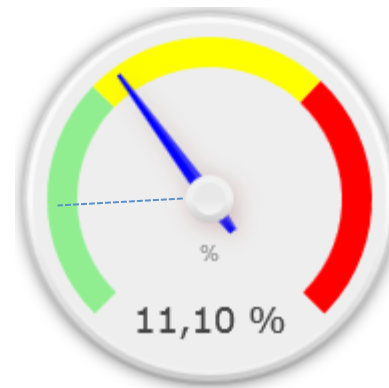
BMI <25



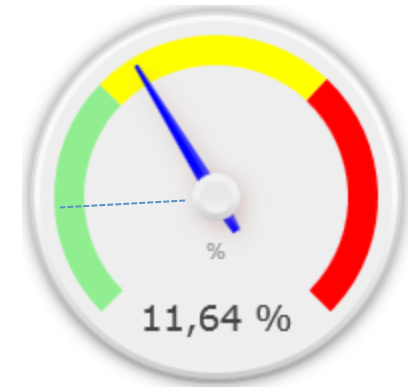
BD_{sys} 180



D.m.



Nikotin



LDL 4.3

NNT
53

RR
- 29%

10-jahres-Risiko für Herzinfarkt beim 65-jährigen Mann

BD_{sys} 140

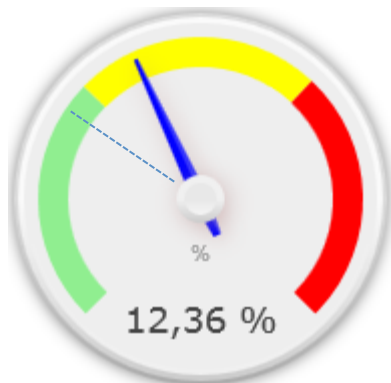
LDL 2.5

Ø D.m.

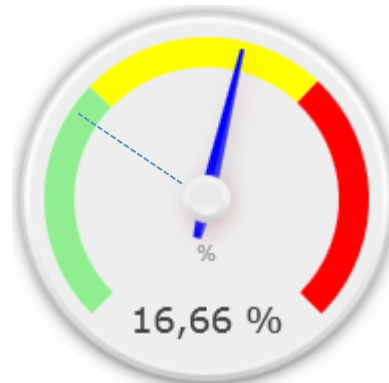
Ø Nikotin

Ø FA

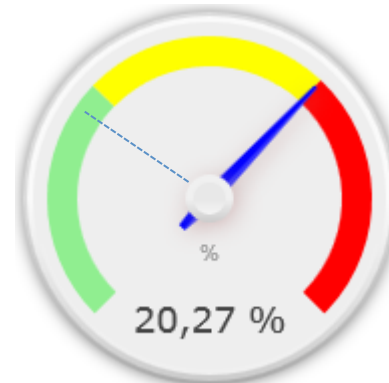
BMI <25



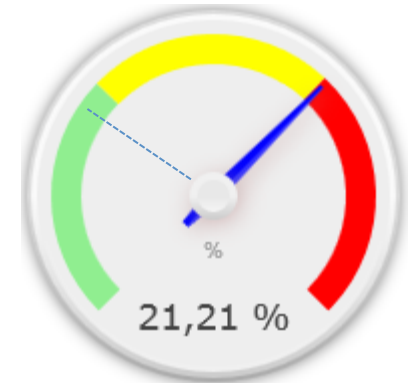
BD_{sys} 180



D.m.



Nikotin



LDL 4.3

NNT

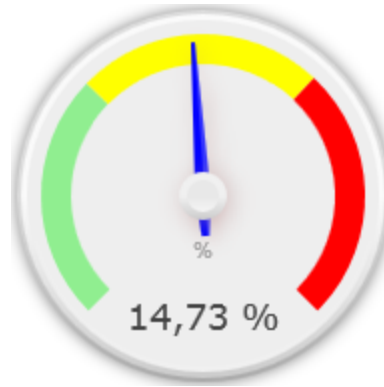
29

RR

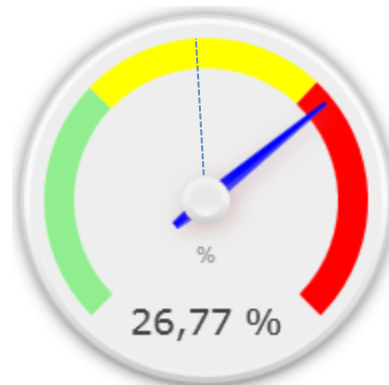
- 28%

10-jahres-Risiko für Herzinfarkt beim 75-jährigen Mann

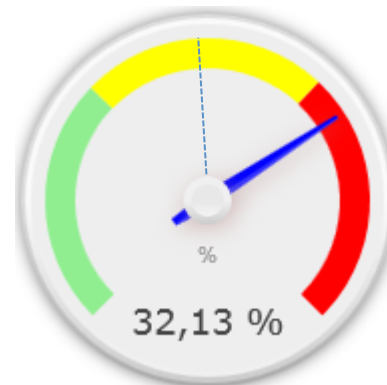
BD_{sys} 140
LDL 2.5
Ø D.m.
Ø Nikotin
Ø FA
BMI <25



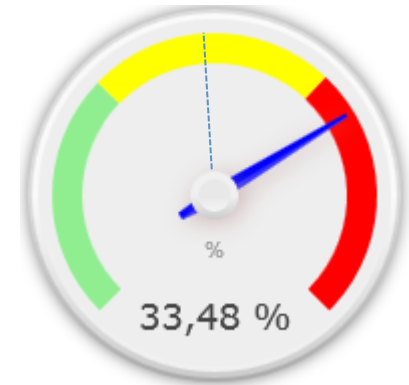
BD_{sys} 180



D.m.



Nikotin



LDL 4.3

NNT RR
19 - 27%

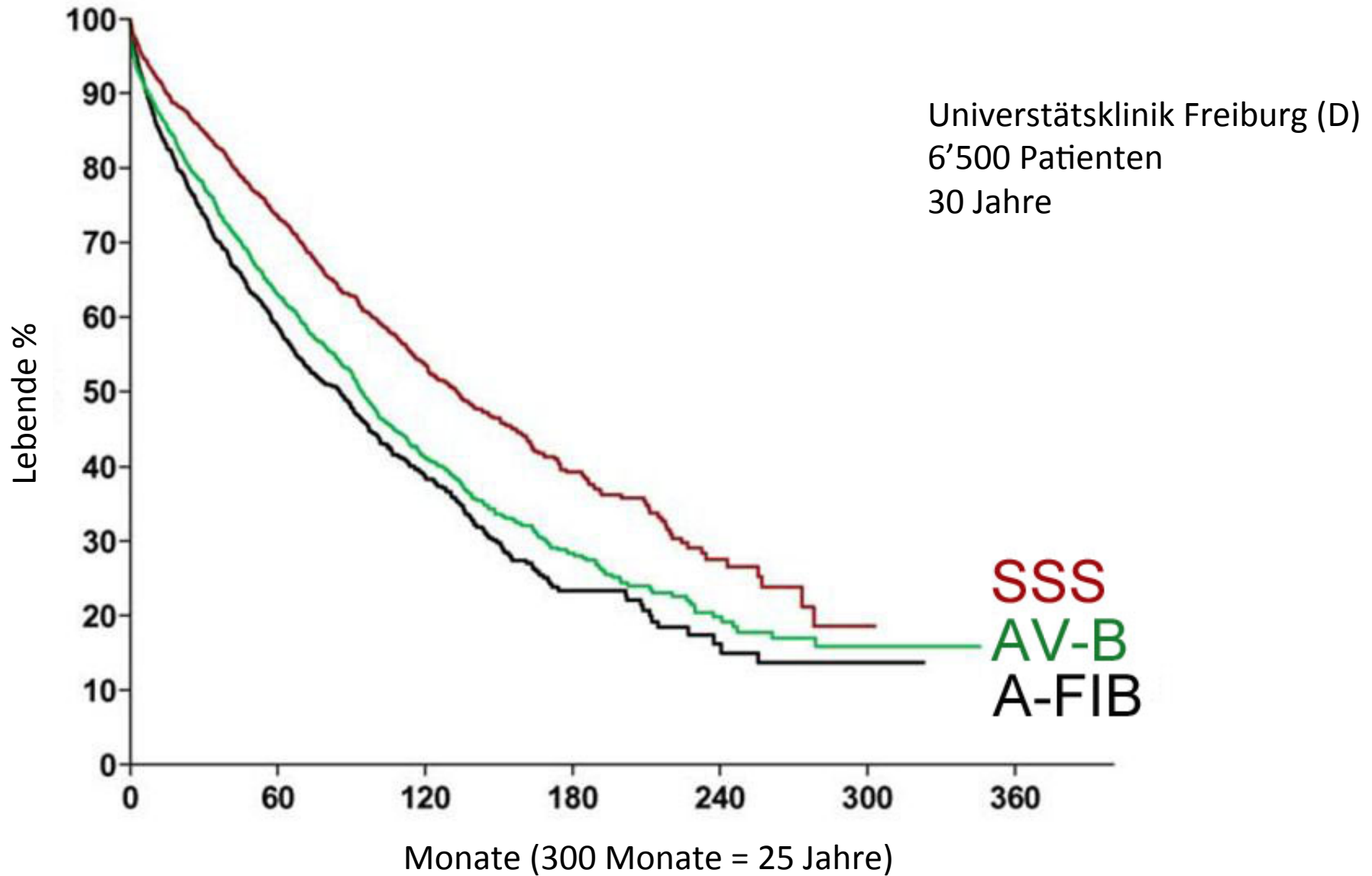
Fünf Therapiefragen im Alter

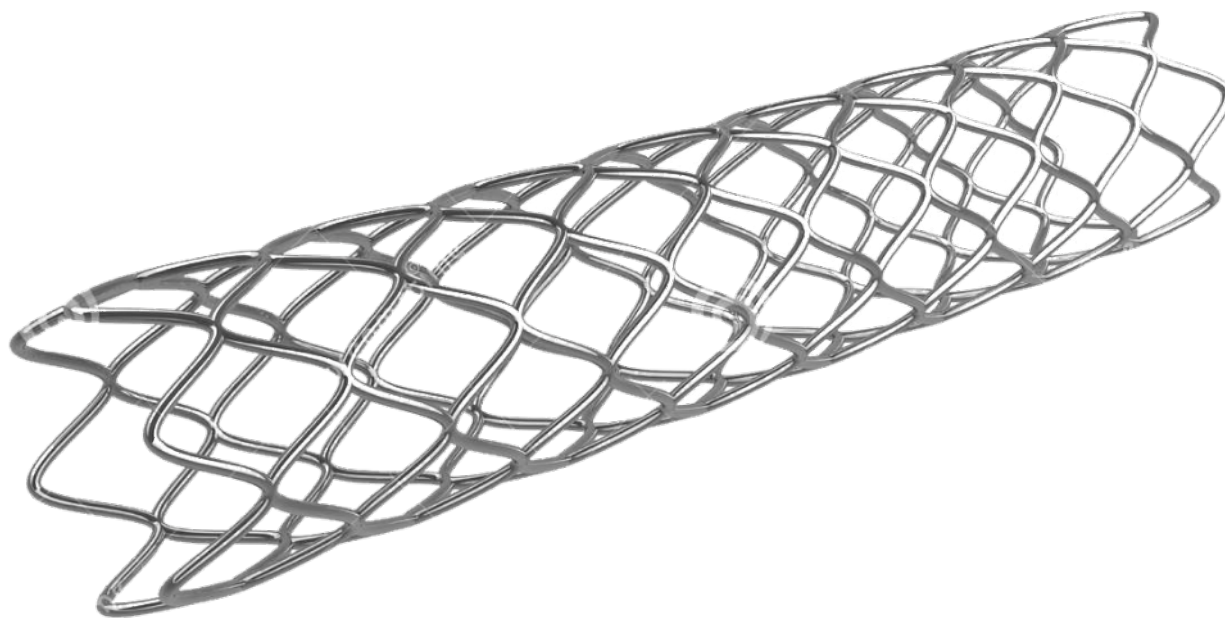
- | | |
|---------------------------|--|
| 1. Goals of care | Was will der Patient ? Was leistet sich die Gesellschaft ? |
| 2. Life expectancy | Wird der Patient > 5 Jahre leben ? |
| 3. Treatment target | Individuelle Therapie: Therapeutisches Ziel ? |
| 4. Time to benefit | Wann beginnt der Nutzen der Prophylaxe ? |
| 5. Number needed to treat | Wie wirksam ist die Prophylaxe ? |



5'000 Erstimplantationen pro Jahr (CH 2014)

Überlebenskurve nach Schrittmacherimplantation



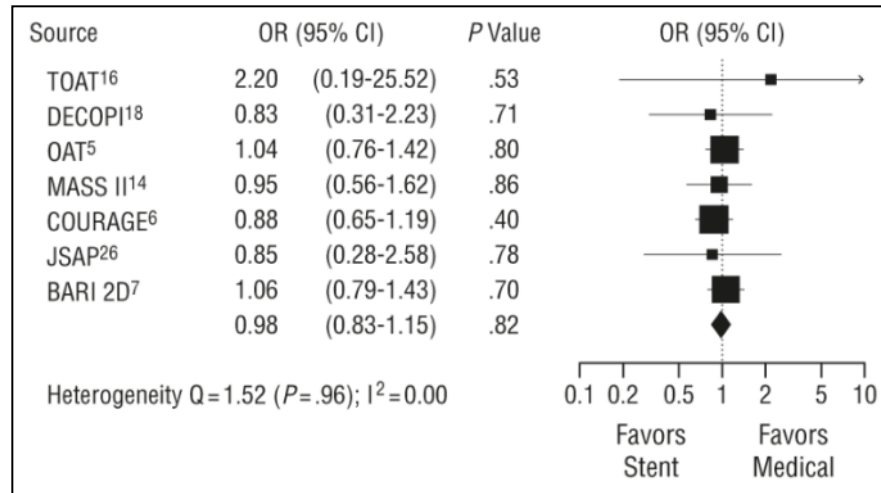


22'000 PCI pro Jahr (CH 2013)

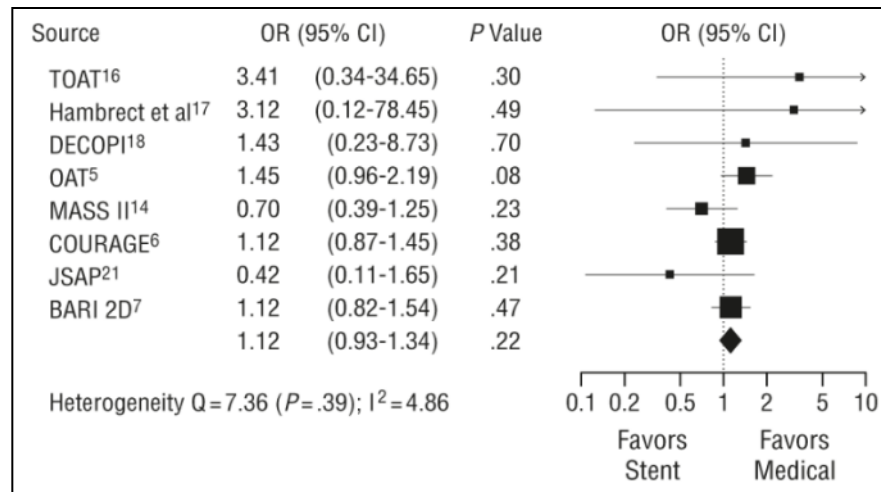
Stents verlängern das Leben nicht !

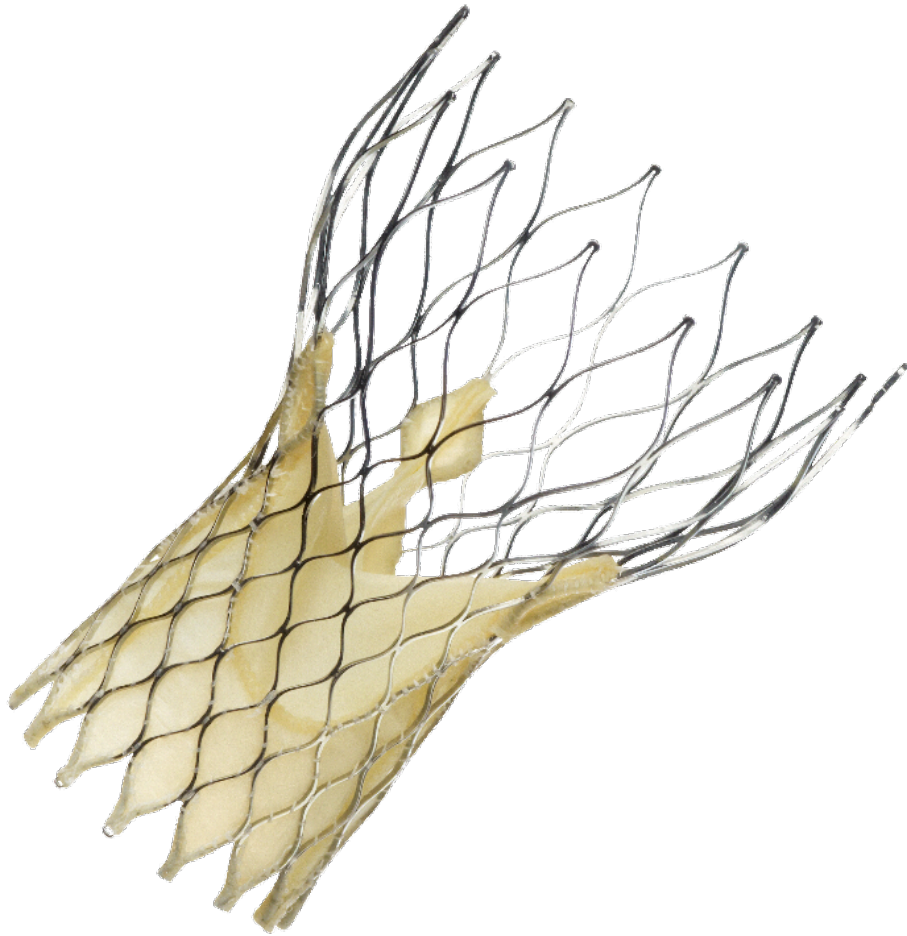
- Metaanalyse von 8 RCTs mit > 7'000 Pat, Follow up 4.8 Jahre
- Frage: Stabile KHK, Outcome Stenting vs. Medikation

Tod



MI (nonfatal)





Medtronic «CoreValve»



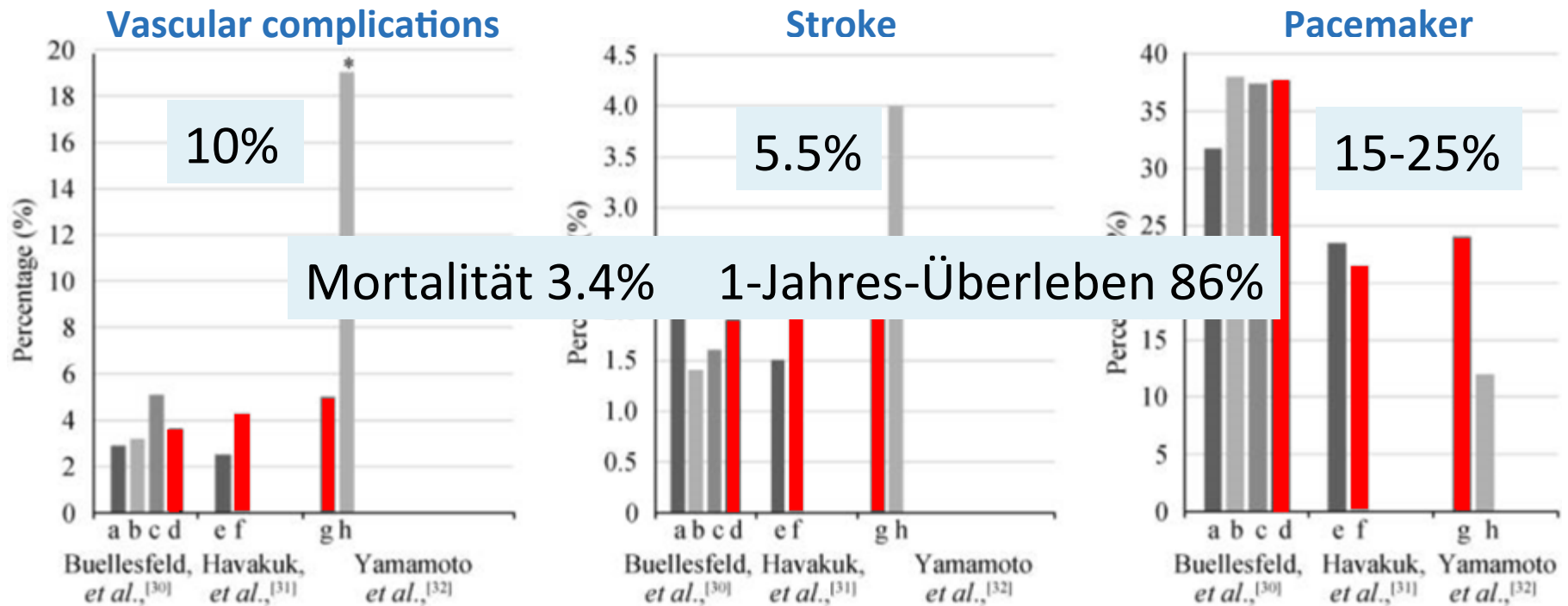
Edwards «Sapien»

1'250 TAVI pro Jahr (CH 2015 extrapoliert)

Post-TAVI complications depending on patients age

Long-term outcomes of TAVI in elderly patients are still unknown.

The available data on the effect of advanced age on clinical outcomes of TAVI are limited.



Buellesfeld:

a = 73.4 ± 4.5 years (n= 347)

b = 80.6 ± 1.1 years (n= 350)

c = 84.5 ± 1.1 years (n= 382)

d = 88.9 ± 2.2 years (n= 312)

Havakuk:

e = ≤ 85 years (n= 200)

f = ≥ 85 years (n = 93)

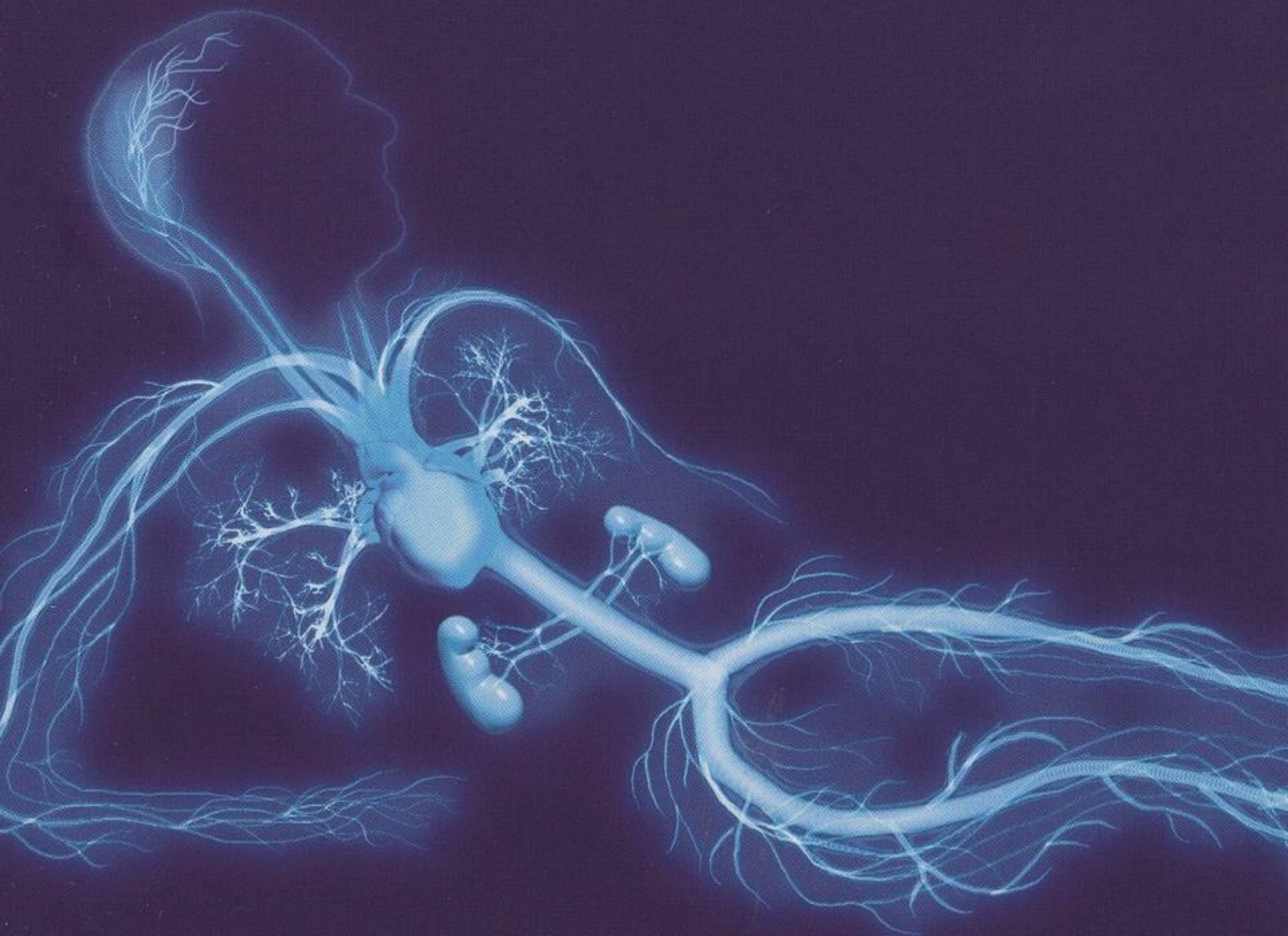
Yamamoto:

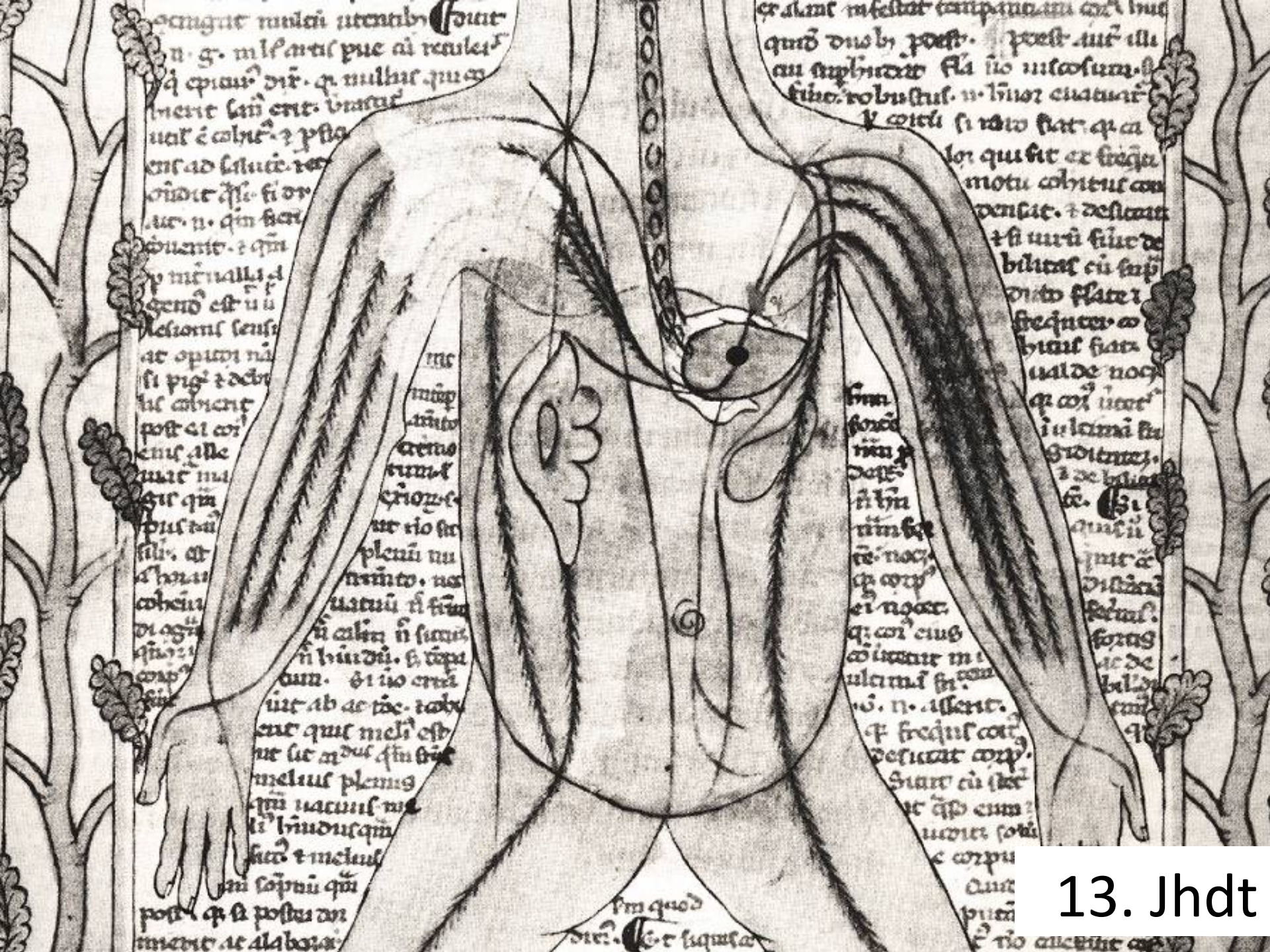
g = ≤ 90 years (n= 110)

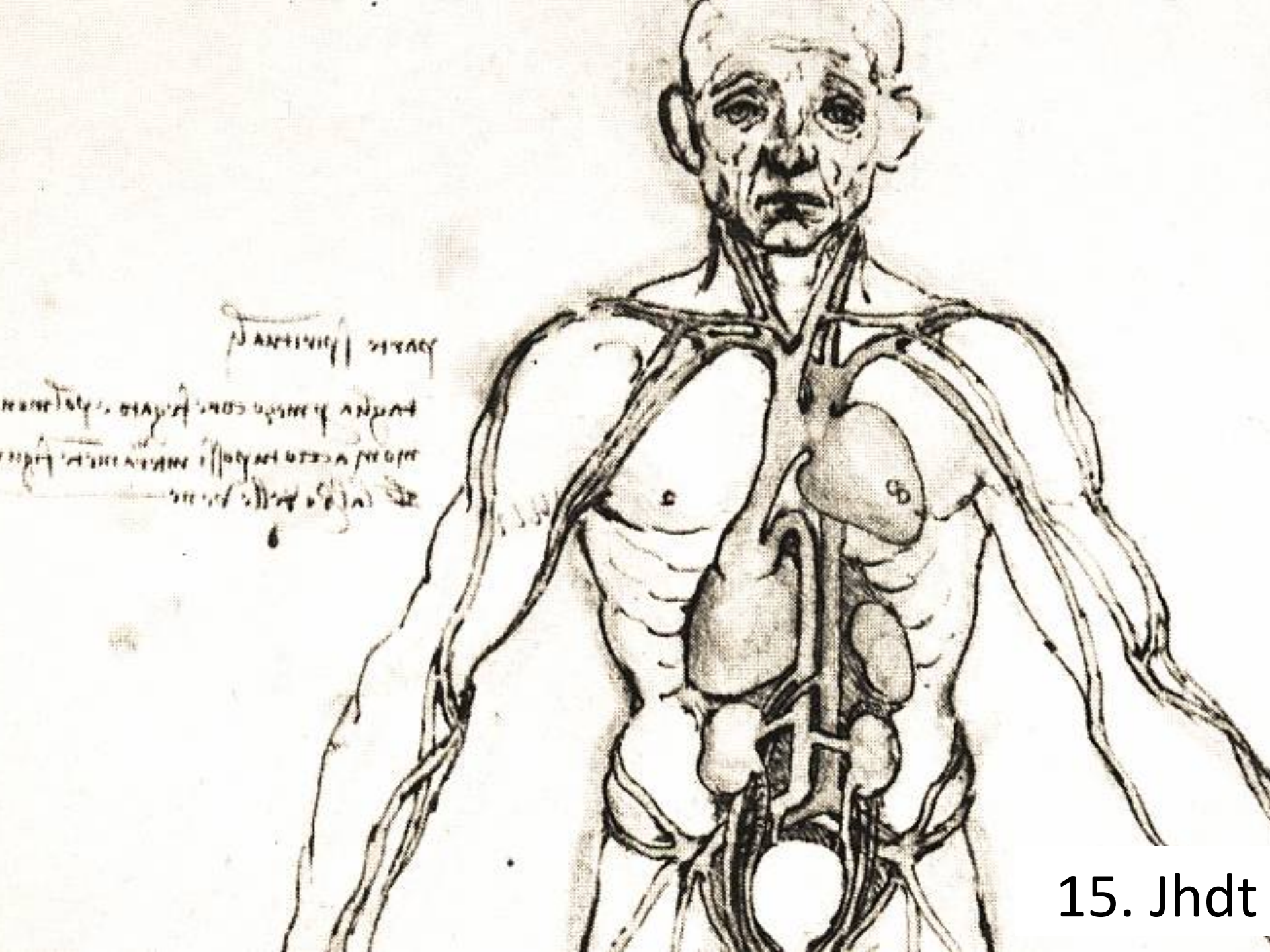
h = ≥ 90 years (n = 26)

PARTNER trial, NEJM 2011

U.S. CoreValve Study, NEJM 2014







15. Jhdt



«Lappi, Dunst-
macher und
Waldesel von
Einsiedeln,
nicht einmal
würdig dem ins
Feuer geworfenen
Galenus die
Seichkachel
nachzutragen»