



**Life one year after stroke
results from the Riksstroke quality-of-care review**



Professor Mia von Euler, Örebro University
Chair the Swedish stroke registry Riksstroke
On behalf of the steering committee of Riksstroke

#lifeafterstro

Conflict of Interest

No conflicts of interest



SAFE
STROKE ALLIANCE FOR EUROPE

#lifeafterstroke

The Swedish stroke registry, Riksstroke

A national quality register

Opt out

Sweden 10.4 million inhabitants

The 72 hospitals in Sweden with an acute stroke unit participate



The Swedish stroke registry, Riksstroke

A national quality register

Opt out

Sweden 10.4 million inhabitants

The 72 hospitals in Sweden with an acute stroke unit participate

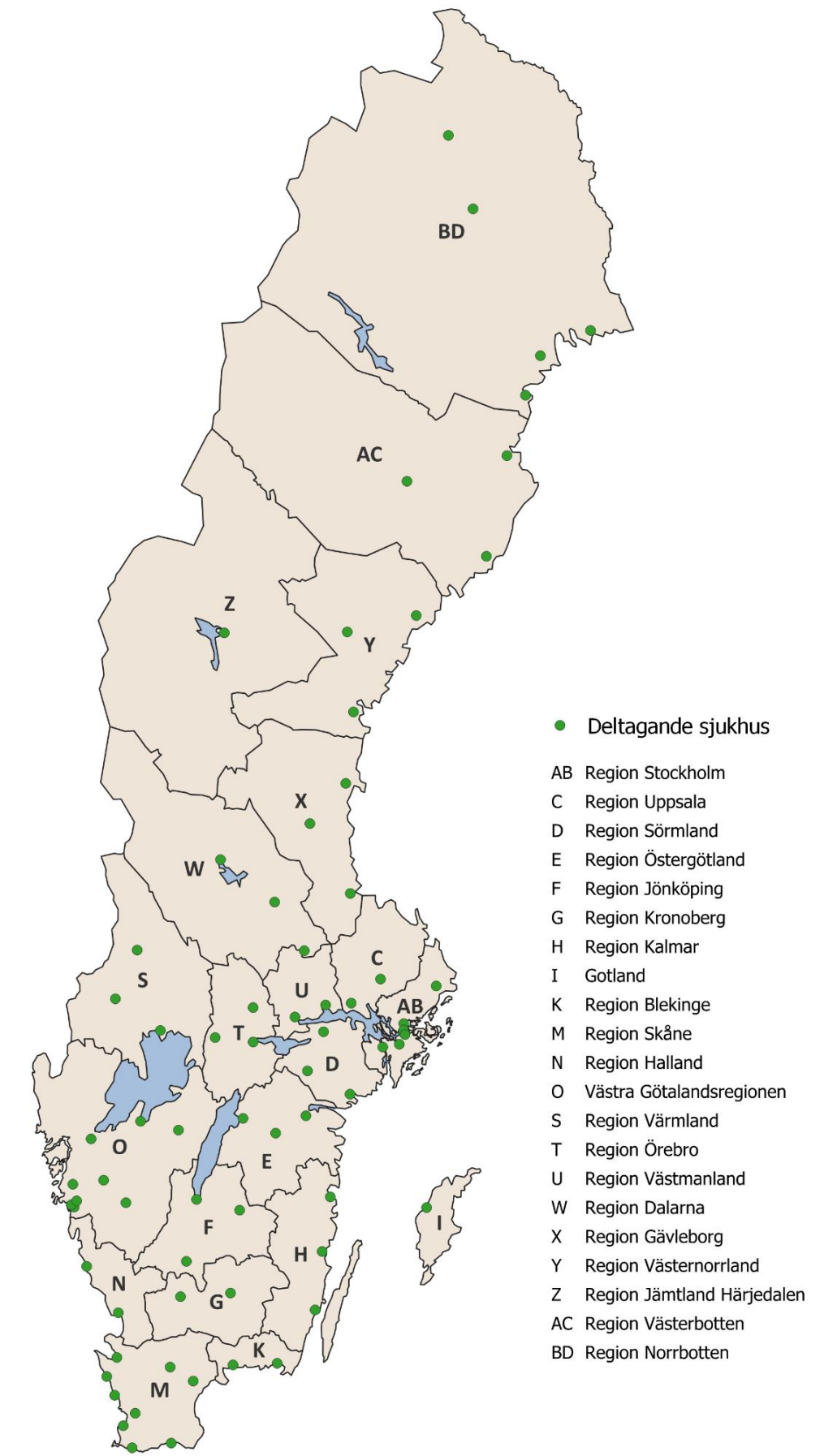


The Swedish stroke registry, Riksstroke

Sweden 10.4 million inhabitants

All 72 hospitals in Sweden with an acute stroke unit participate

- Acute report by hospital professionals
- 3 months after stroke, patient survey
- 1 year after stroke, patient survey some years
- 3 year after stroke, patient survey some years

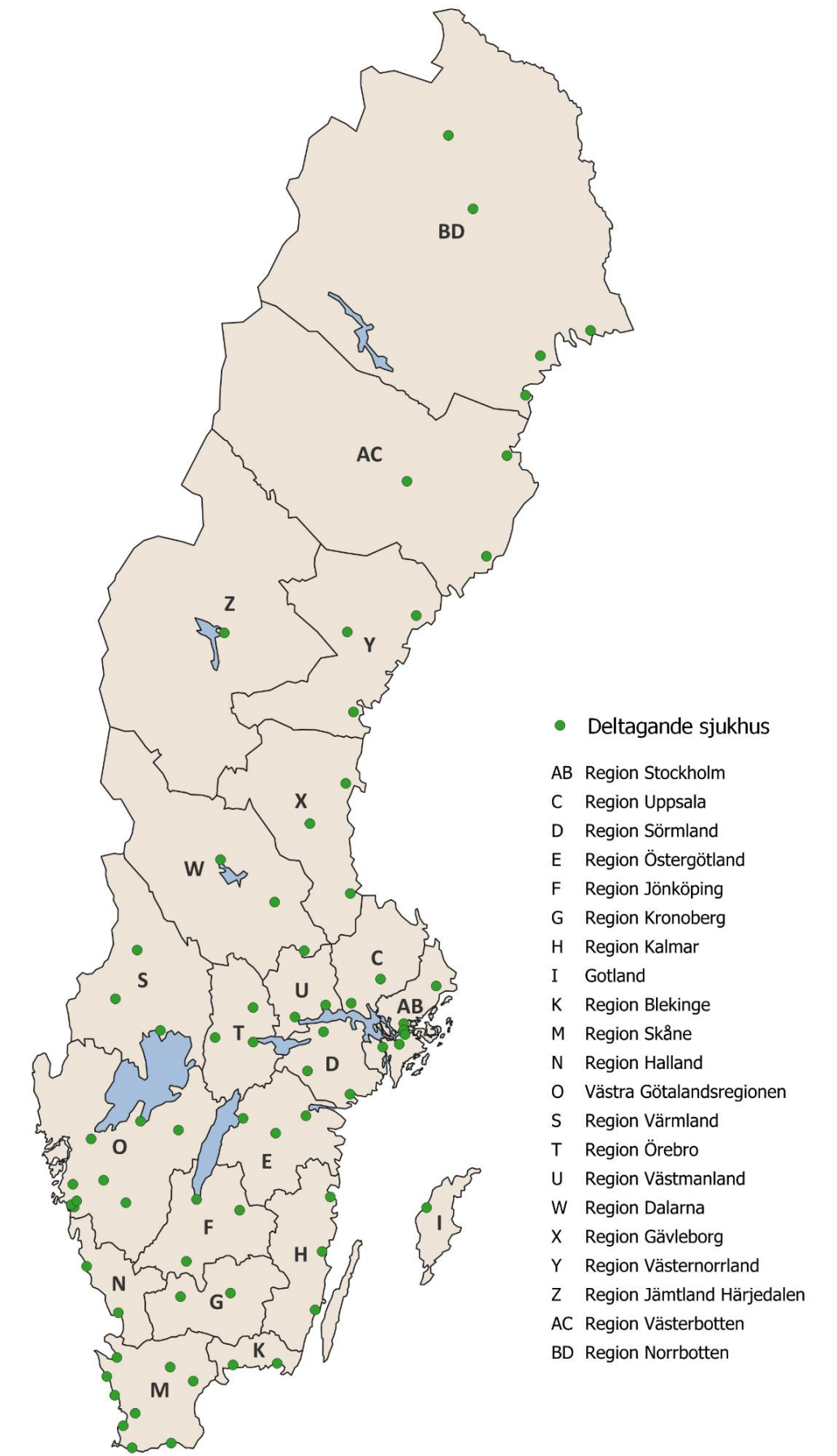


The Swedish stroke registry, Riksstroke

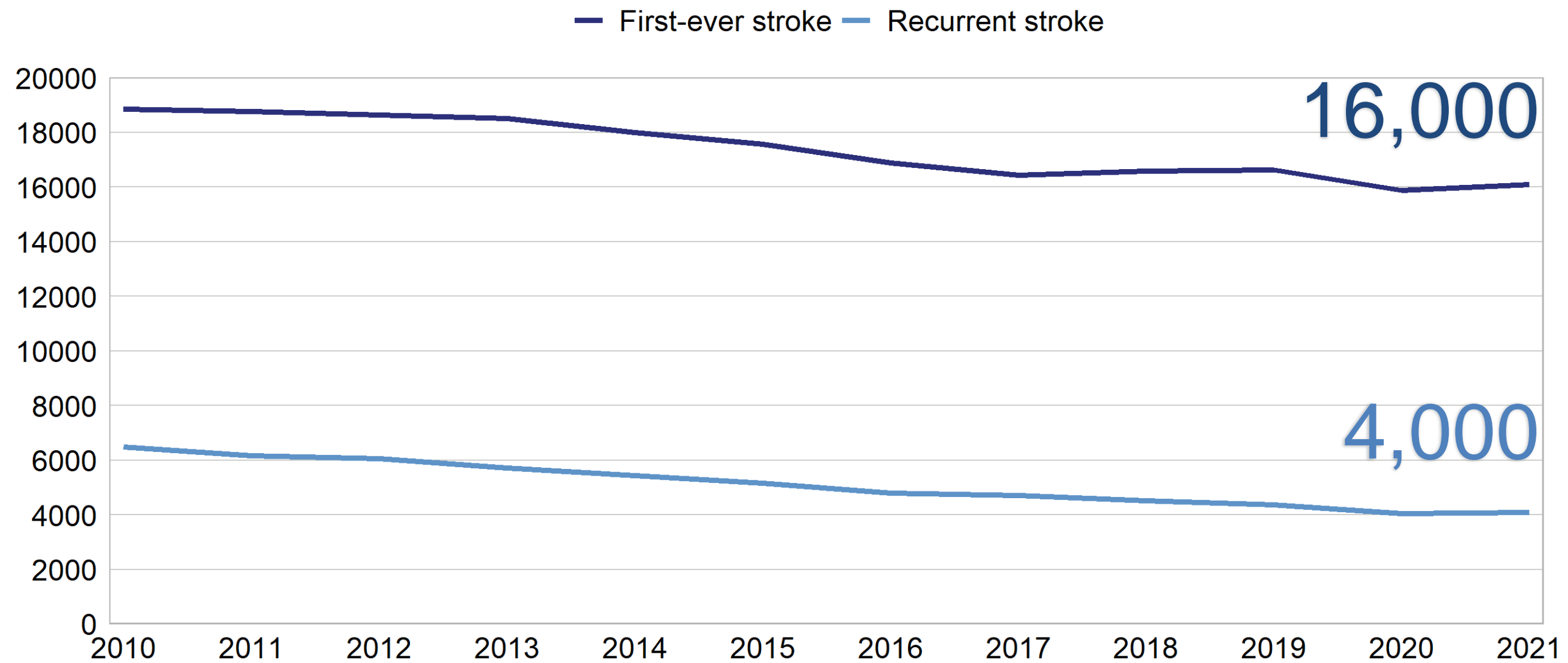
Sweden 10.4 million inhabitants

All 72 hospitals in Sweden with an acute stroke unit participate

- Acute report by hospital professionals
- 3 months after stroke, patient survey
- 1 year after stroke, patient survey some years
- 3 year after stroke, patient survey some years



Stroke in Sweden during the last decade



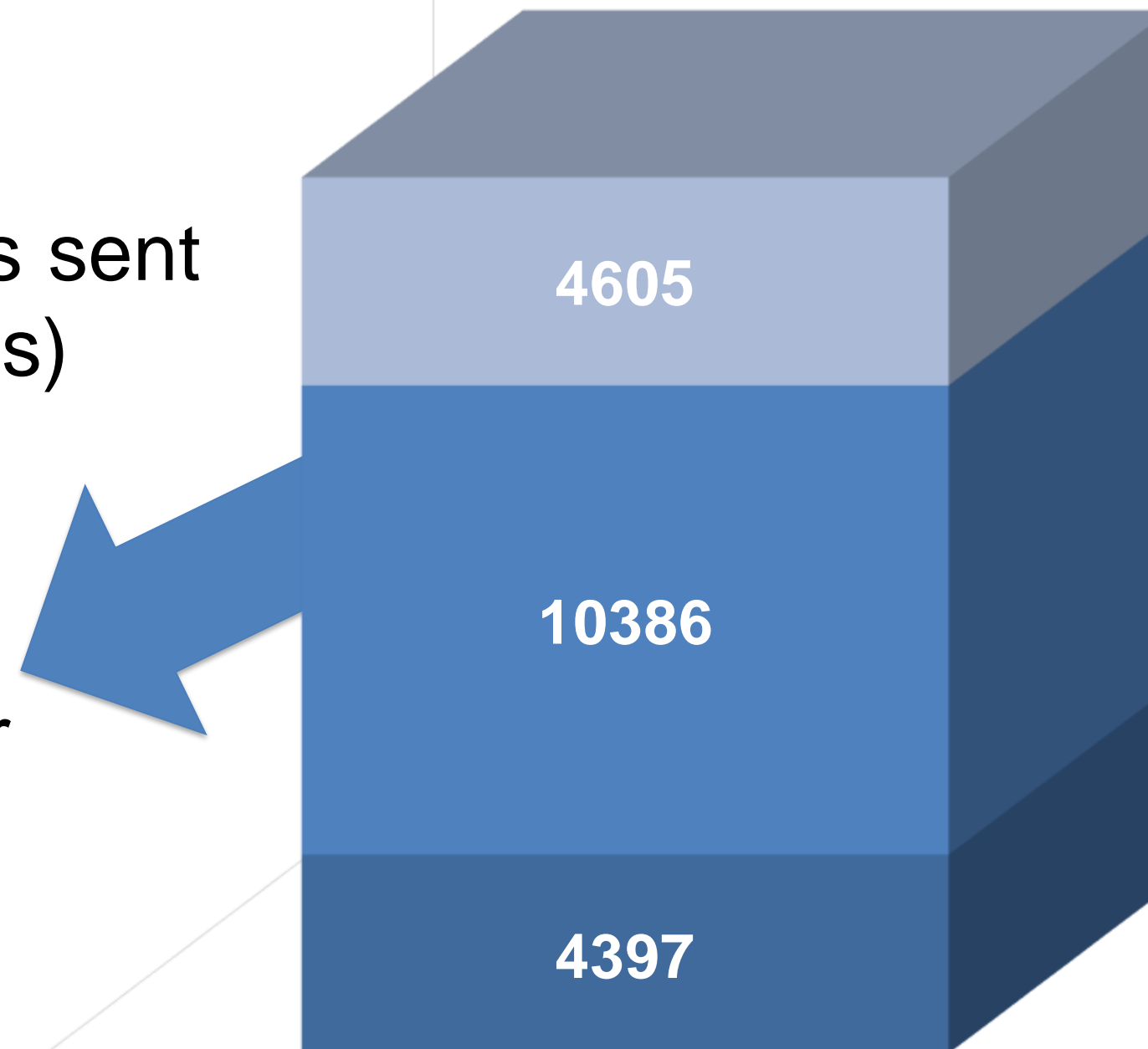
Population (x10⁶): 9.4

9.9

10.4

Methods

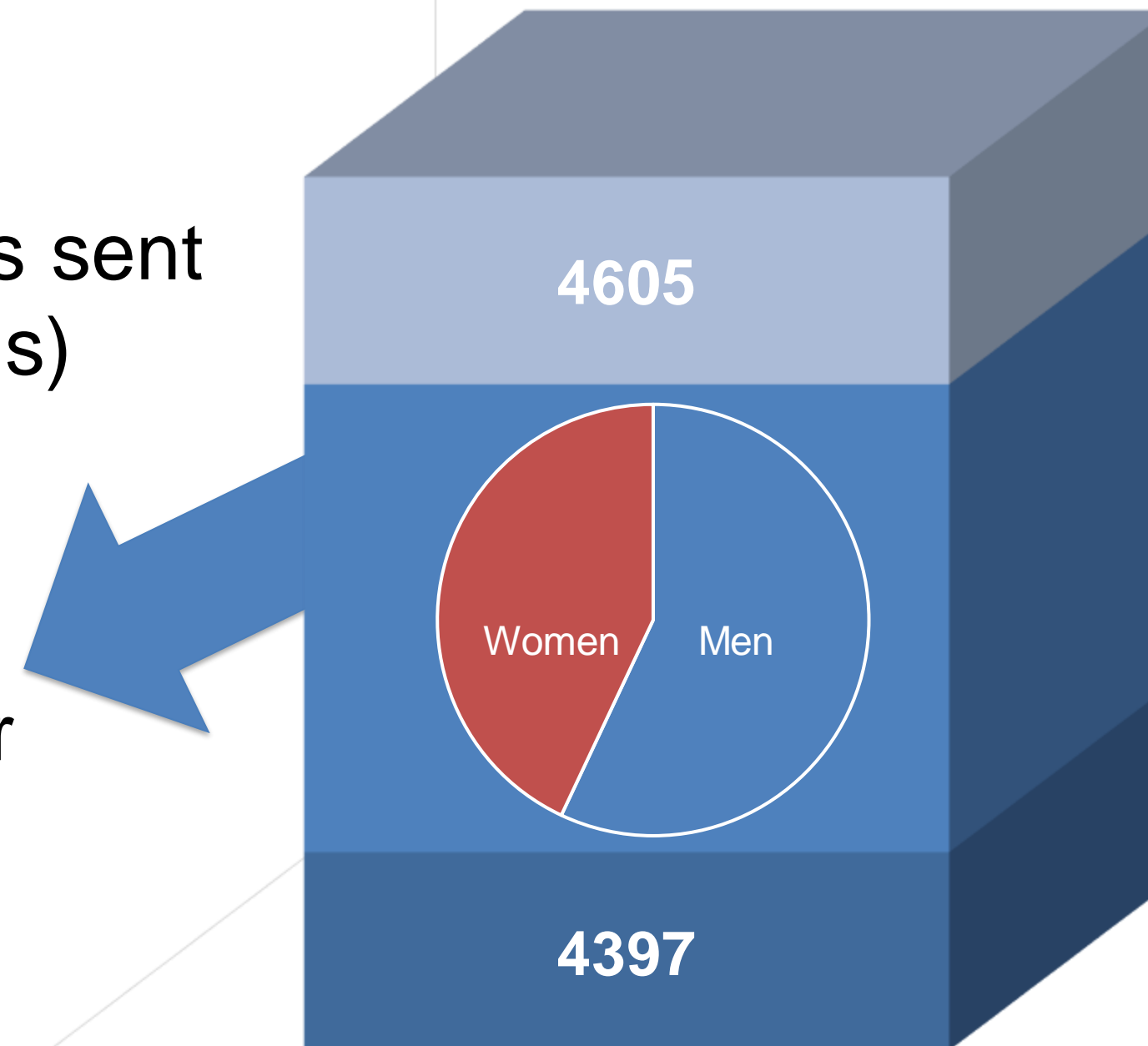
- One year after stroke a survey was sent out to all survivors (14,991 persons)
- 73 % responded
- 70 % responded independently
- 20 % responded with help of other
- 7 % relative responded



■ Dead ■ Alive responding ■ Alive, not responding

Methods

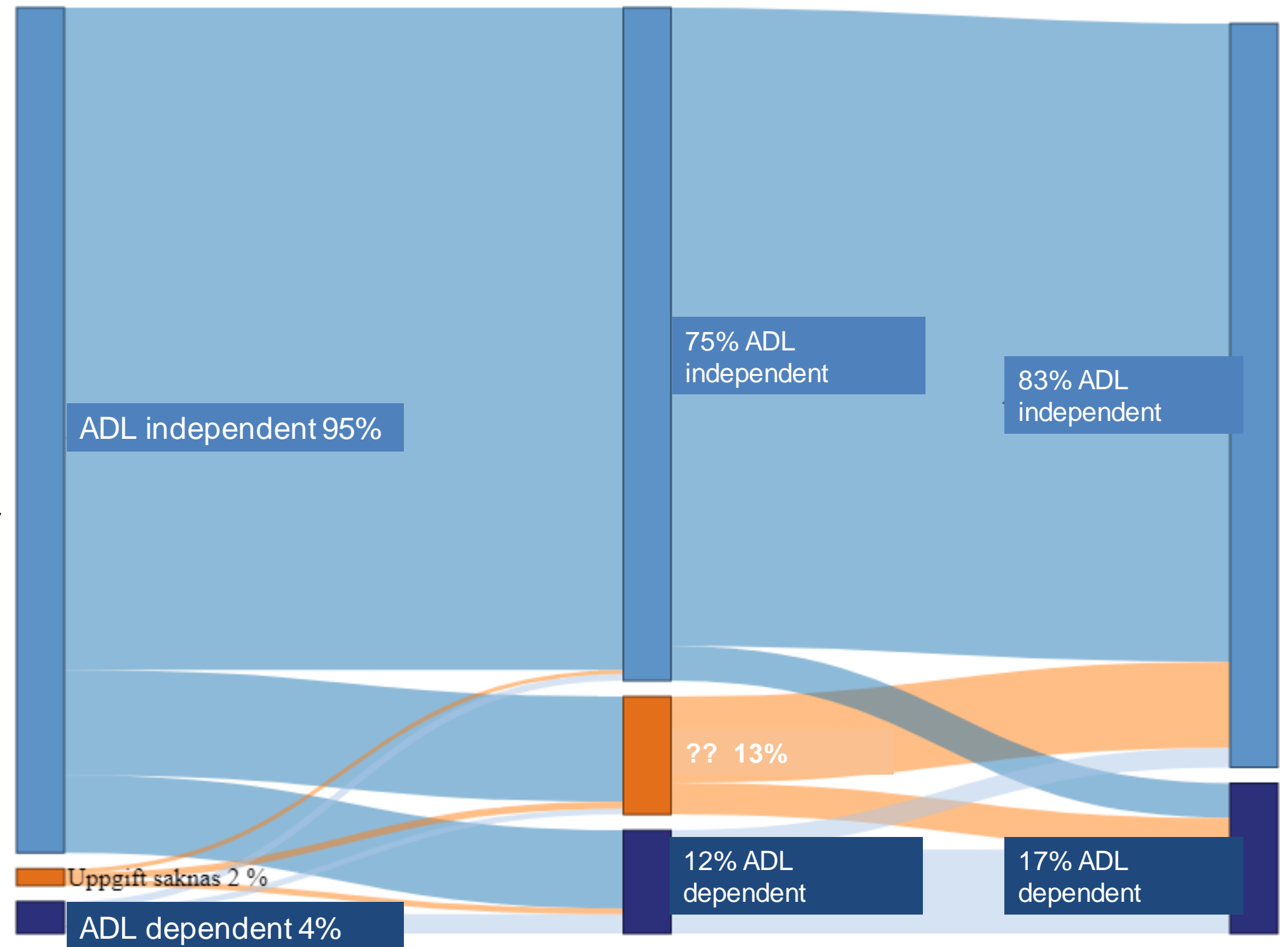
- One year after stroke a survey was sent out to all survivors (14,991 persons)
- 73 % responded
- 70 % responded independently
- 20 % responded with help of other
- 7 % relative responded



■ Dead ■ Alive responding ■ Alive, not responding

Results: Dependency in Activities of daily living (ADL)

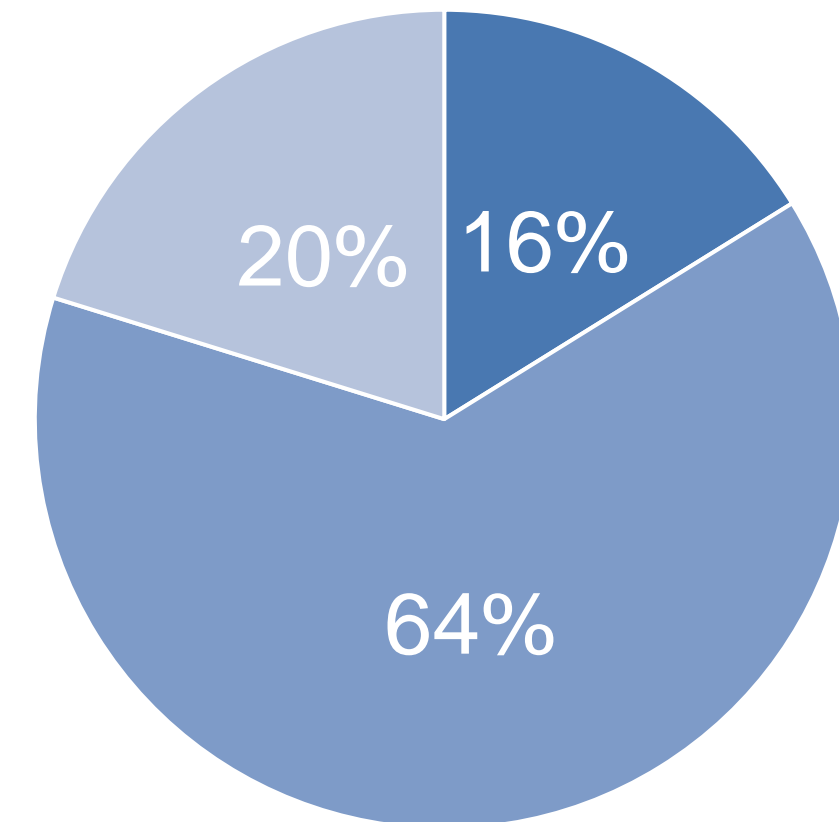
- 76% were living independently
- Need of help with ADL
 - 19% in persons 75 years and above
 - 9% in younger persons



Results: Pain

- 26% often or always in pain
- Younger patients more often not satisfied with pain relief
- Large regional variations: 6-22% fully satisfied

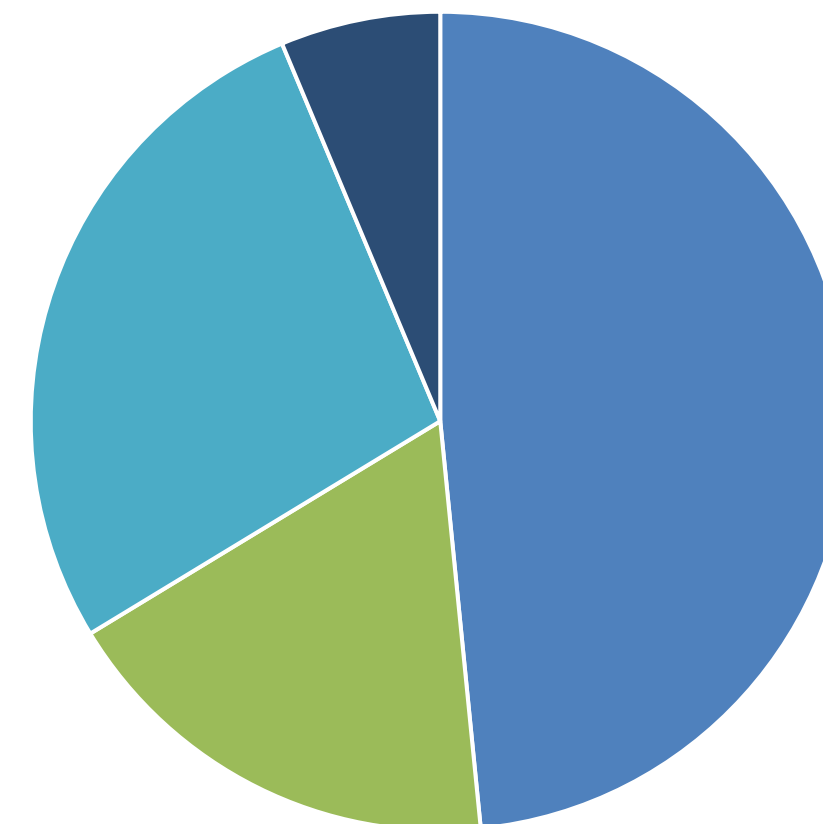
Effect pain treatment



- Entirely effective
- Partly effective
- Not effective

Results: 3 years after stroke

Effect pain treatment

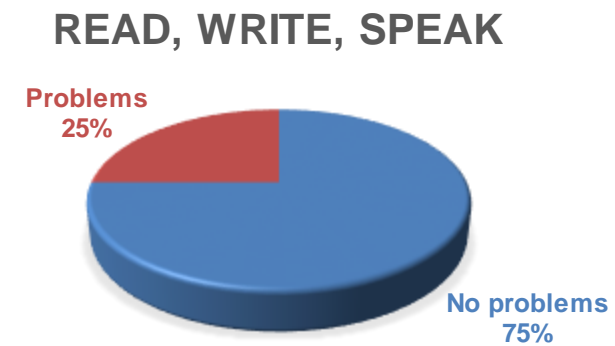


- No need
- Entirely effective
- Partly effective
- Not effective

Results: Cognitive problems



- Reading and writing
- Memory
- Concentration
- Fatigue

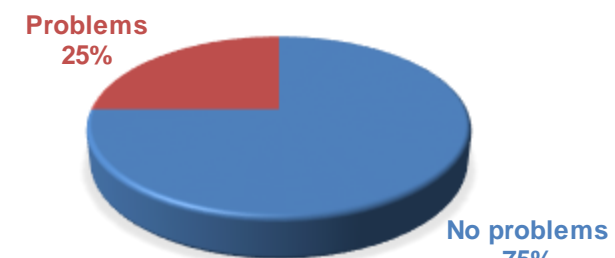


Results: Cognitive problems



- Reading and writing
- Memory
- Concentration
- Fatigue

READ, WRITE, SPEAK



MEMORY

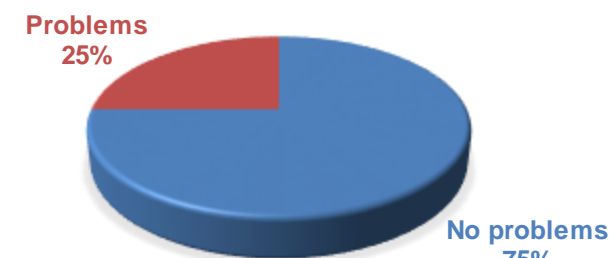


Results: Cognitive problems



- Reading and writing
- Memory
- Concentration
- Fatigue

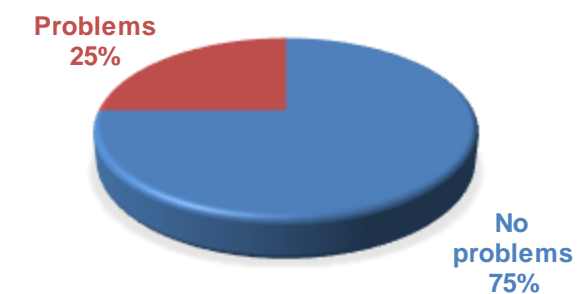
READ, WRITE, SPEAK



MEMORY



CONCENTRATION

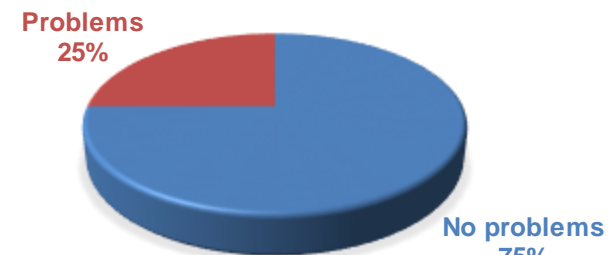




Results: Cognitive problems

- Reading and writing
- Memory
- Concentration
- Fatigue

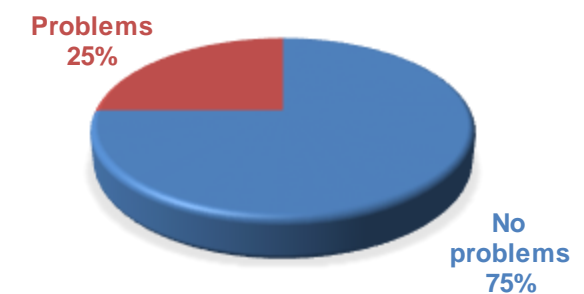
READ, WRITE, SPEAK



MEMORY



CONCENTRATION



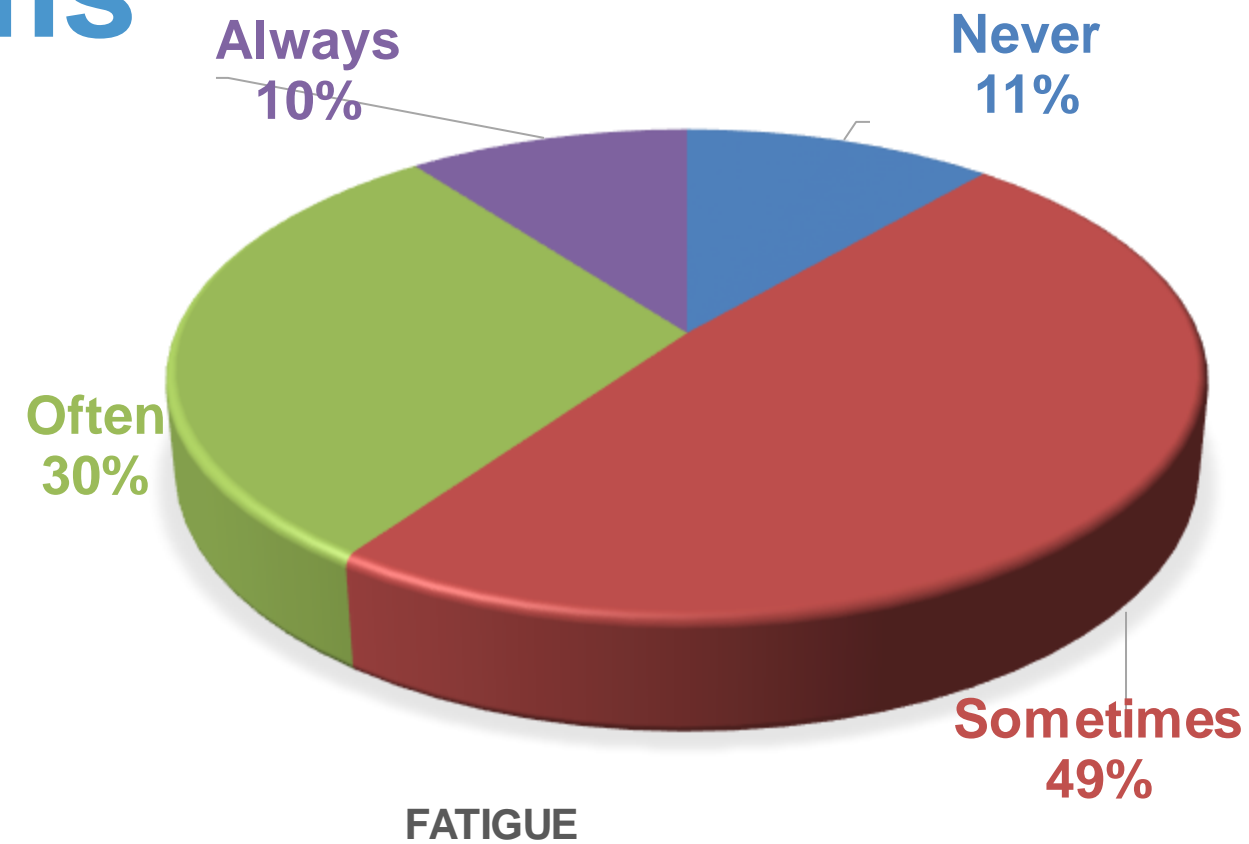
FATIGUE





Results: Cognitive problems

- Fatigue **3 years**

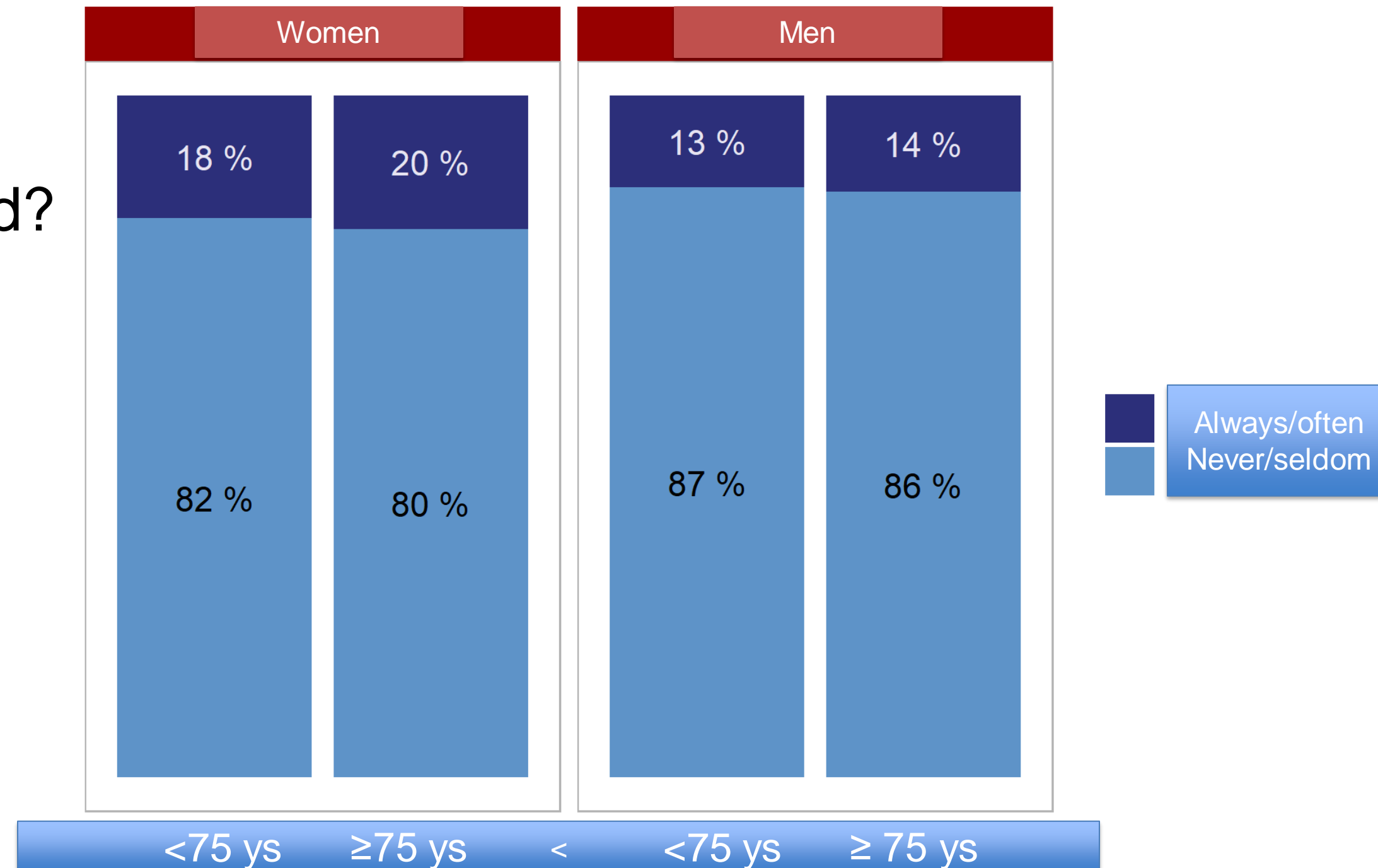


- Fatigue 1 year



Results: Depression

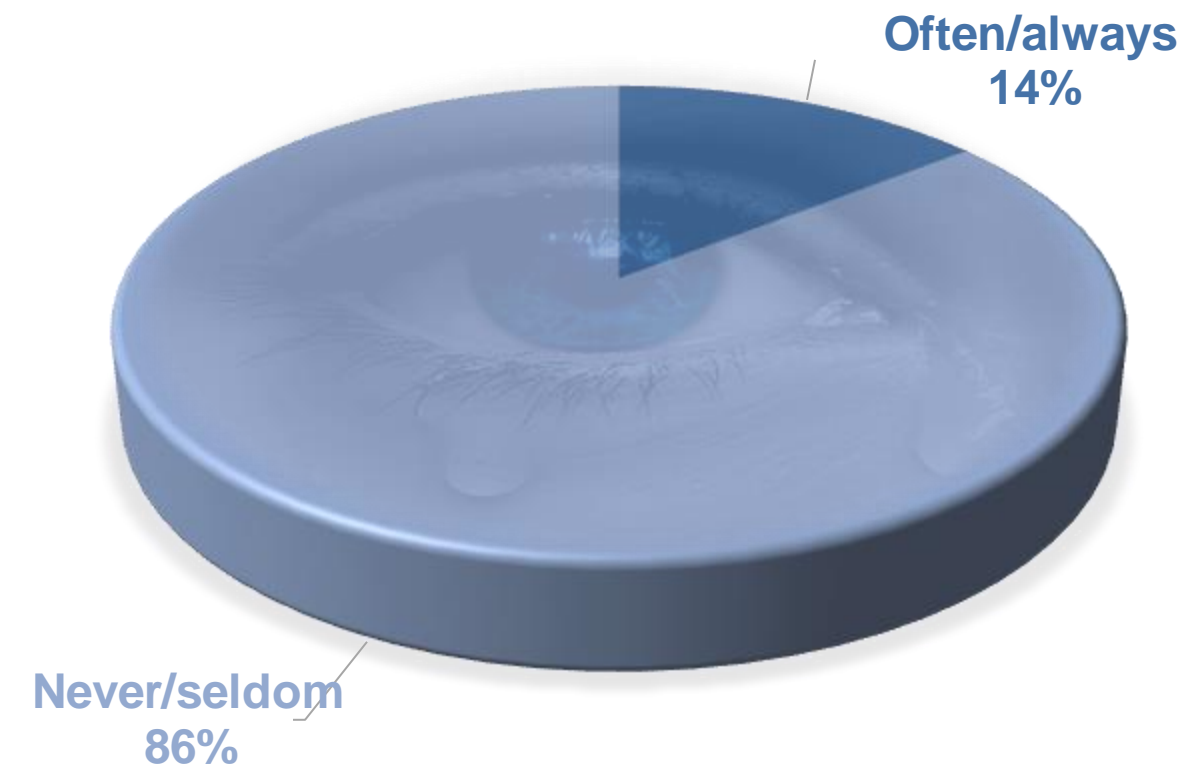
- Do you feel depressed or sad?
- Of those always feeling depressed
 - Medication: 47 %
 - Therapy: 2 %
 - Medication + therapy: 8 %



Results:

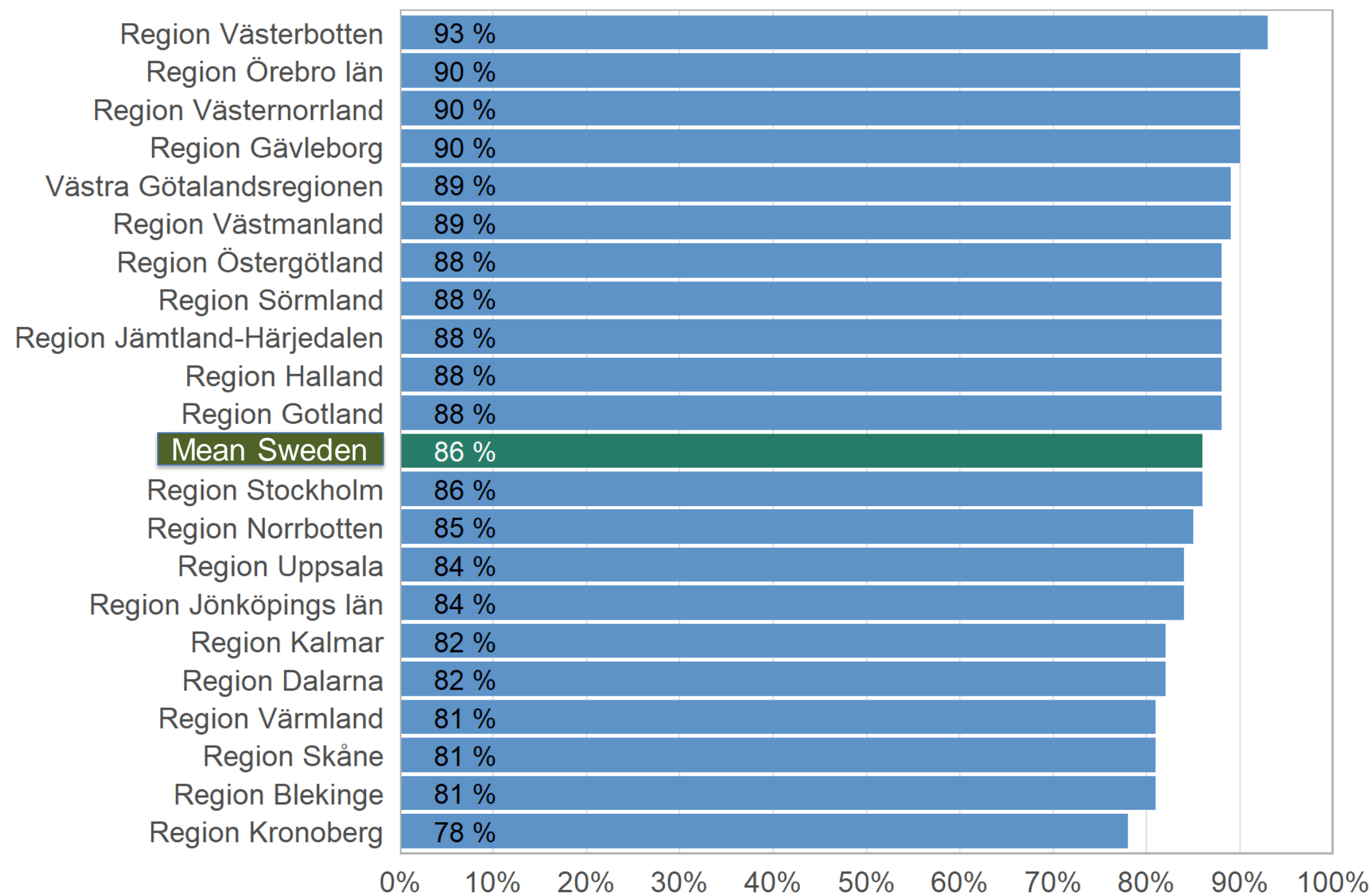
Depression at 3 years after stroke

- Do you feel depressed or sad?
- Treated for depression
 - No: 78%
 - Medication: 15%
 - Therapy: 1%
 - Medication + therapy: 2%



Results: Satisfaction with rehabilitation

- Indicator: >87%
- Younger men most satisfied
- Women >75 ys least satisfied



Conclusion

- Many live a very good life one year after stroke
- There are unmet needs
- Structured follow up and better rehabilitation, particularly for elderly, is needed

On behalf of the Riksstroke steering committee

- *Anneli Torsfeldt Heikenborn*, patient representative
- *Anna Bråndal*, PT, PhD
- *Bo Norrving*, MD, PhD
- *Christina Sjöstrand*, MD, PhD
- *Elisabeth Ronne Engström*, MD, PhD
- *Hannele Hjelm*, RN
- *Katharina Stibrant Sunnerhagen*, MD, PhD
- *Marie Eriksson* PhD
- *Per Wester*, MD, PhD
- *Signild Åsberg*, MD, PhD
- *Teresa Ullberg*, MD, PhD
- *Tommy Andersson*, MD, PhD

I'm very grateful to
Riksstroke's statisticians

- Agnes Holma Weister
- Fredrik Jonsson
- Olivia Isaksson

and
**to all patients
who responded**