

The Danish High Risk and Resilience Study - VIA 7, VIA 11, and VIA 15

Children born to parents with schizophrenia,
bipolar disorder and none of these disorders

Lundbeckfonden
18. marts 2022

VIA 15



The Danish High Risk and Resilience Study VIA 15

The 522 children were **extracted from Danish registers.**

They constituted a **representative sample** of the total population, but non-participating parents had slightly worse prognosis e.g. higher percentage of smoking mothers. IPW didn't change results.



The Danish High Risk and Resilience Study

Sources of information



School teacher



Investigators observations

Information from multiple sources



Primary caregiver



The child

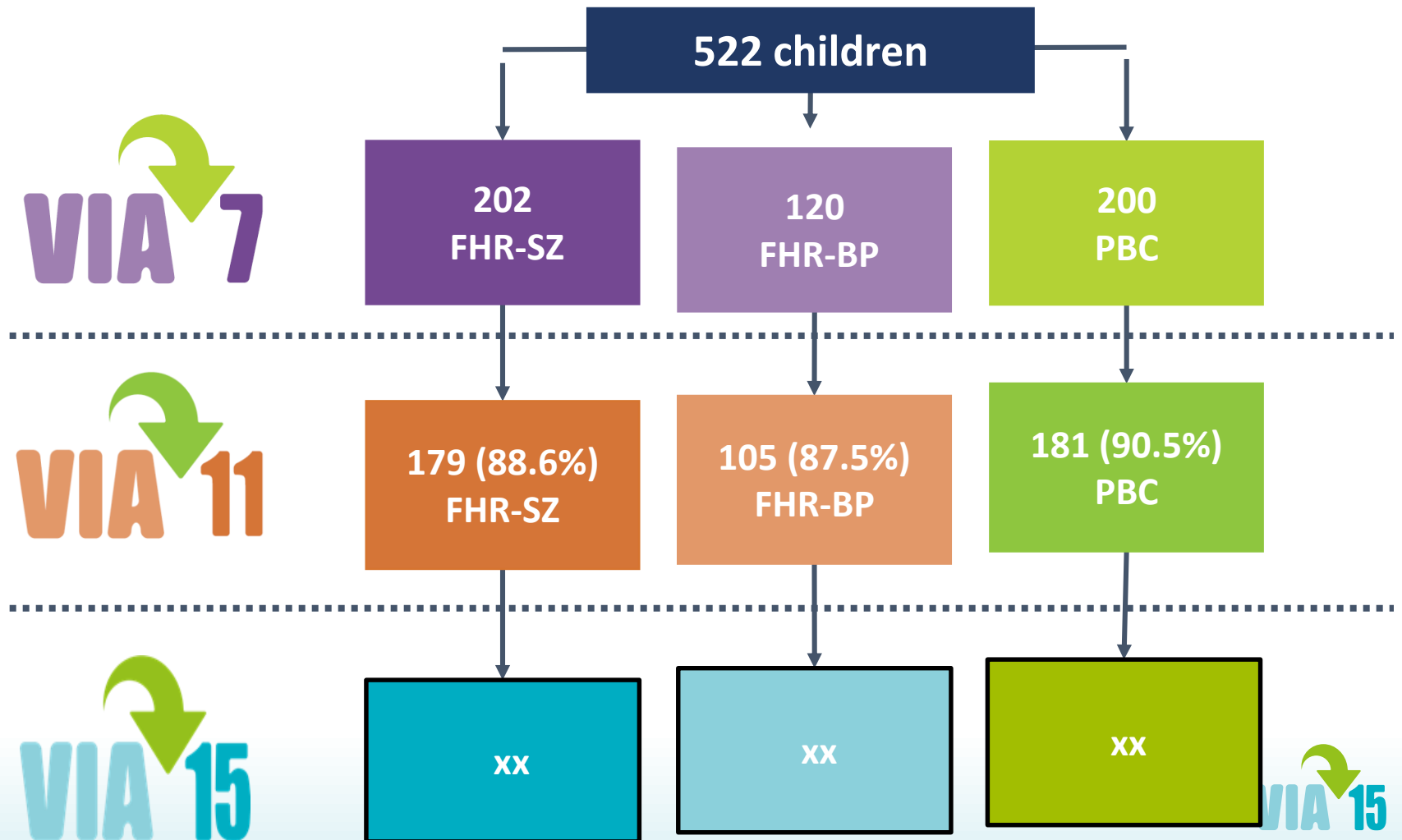


"Ill"/control parent

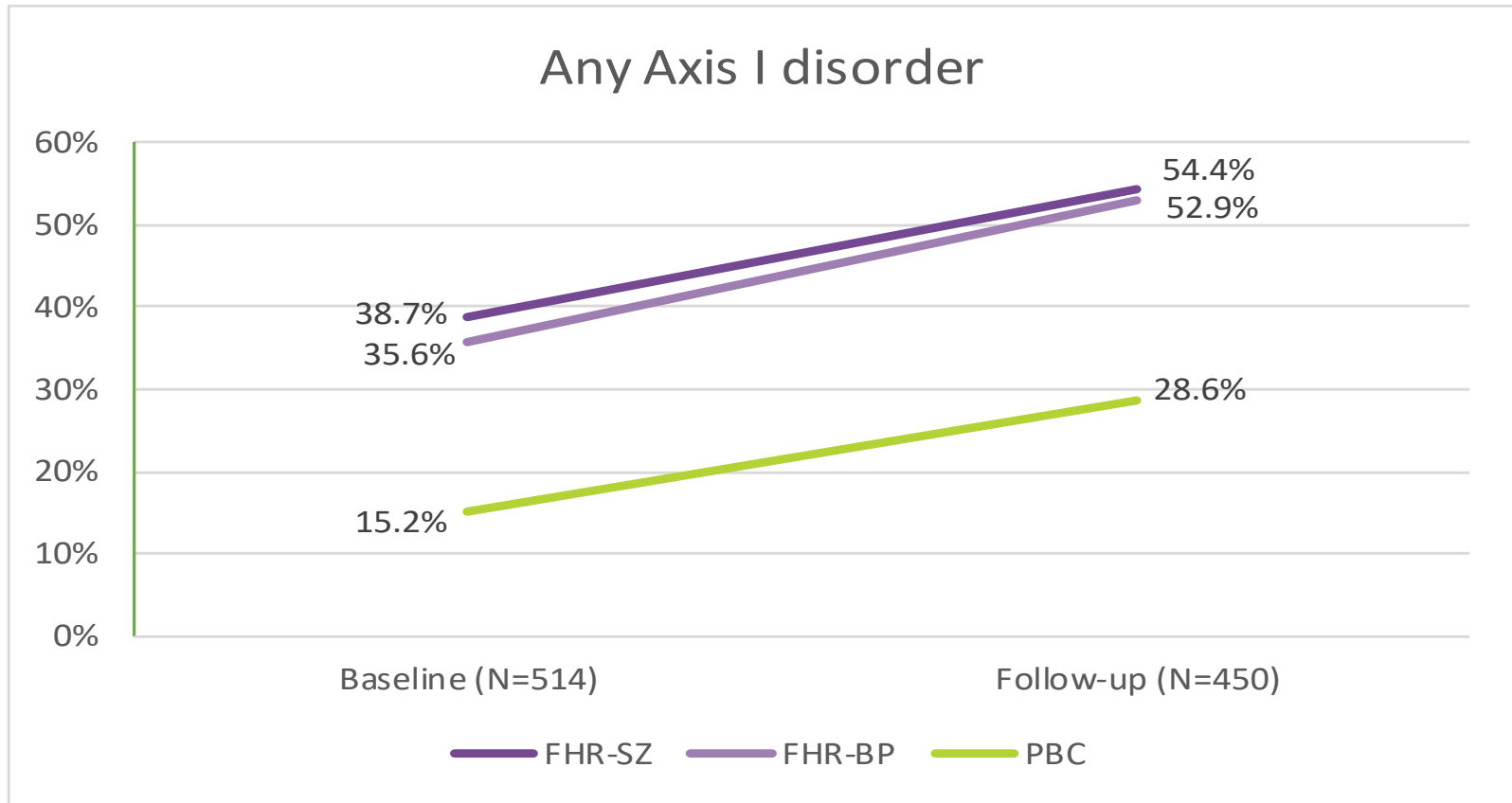


Homevisit

Flow-chart



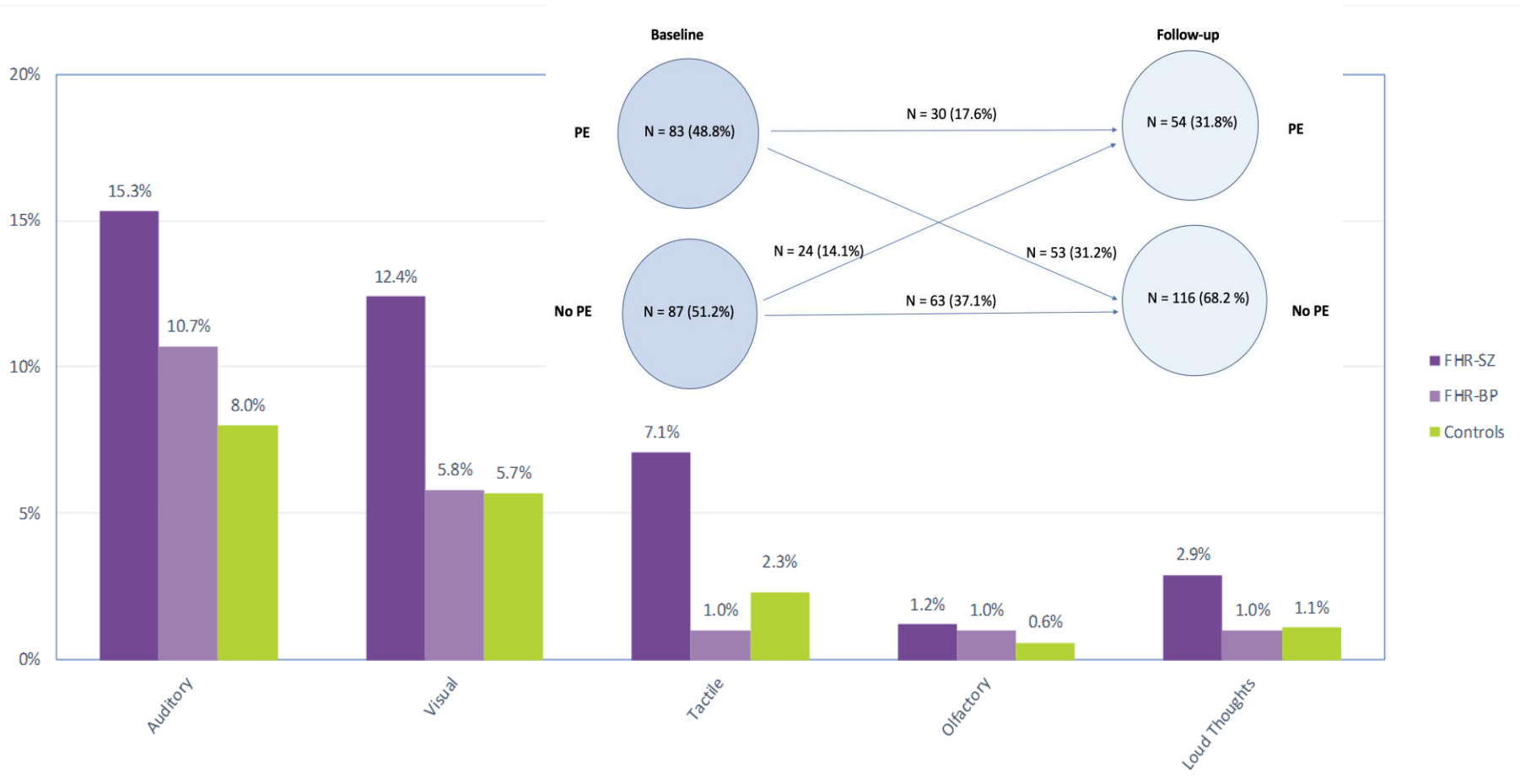
Results from VIA 7 and VIA 11: Proportion with child psychiatric diagnosis



Ellersgaard et al, World Psychiatry 2018,
Gregersen et al, JCCP 2022

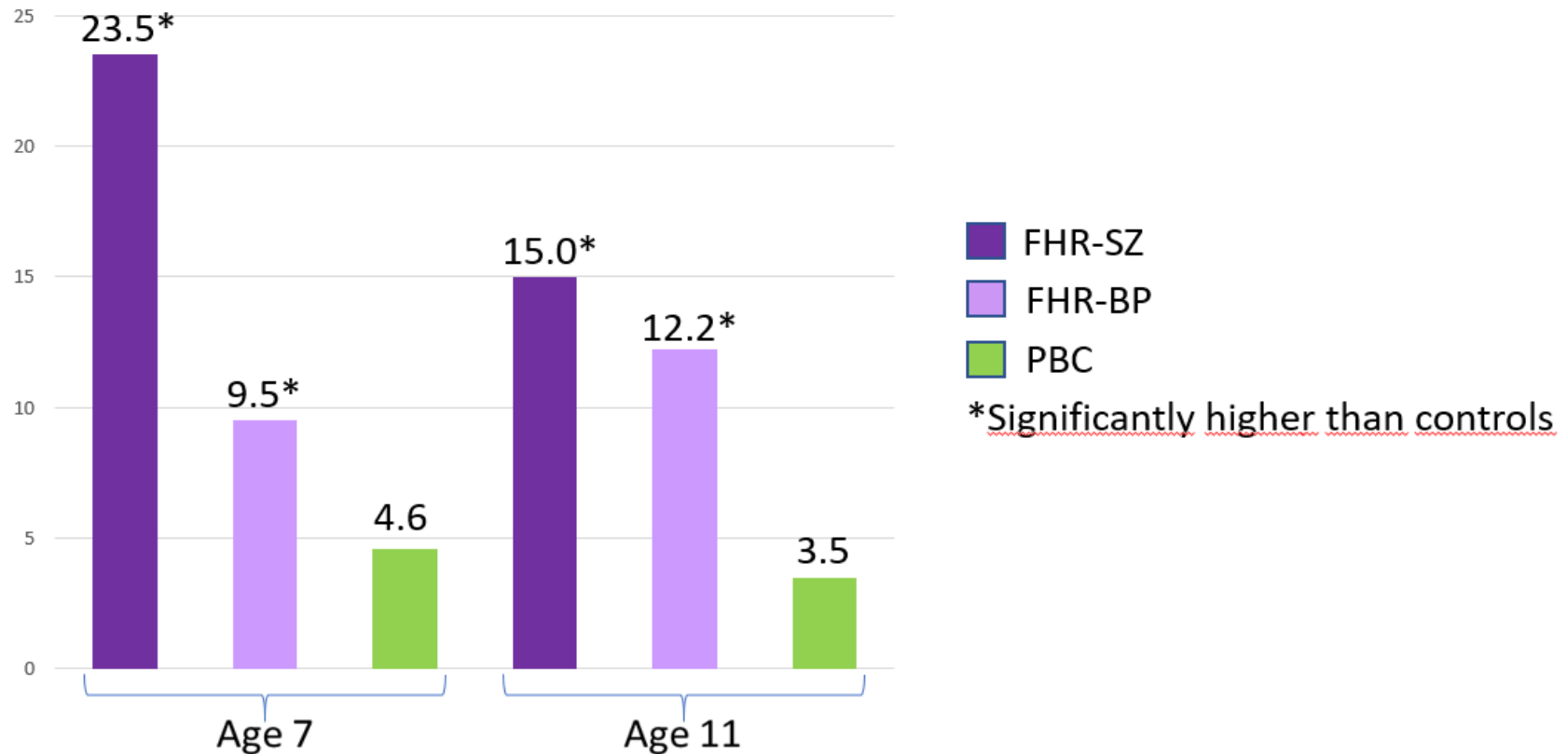
Results from VIA 7 and VIA 11: Proportion with psychotic experiences

Figure 1a. FHR-SZ (N=170)



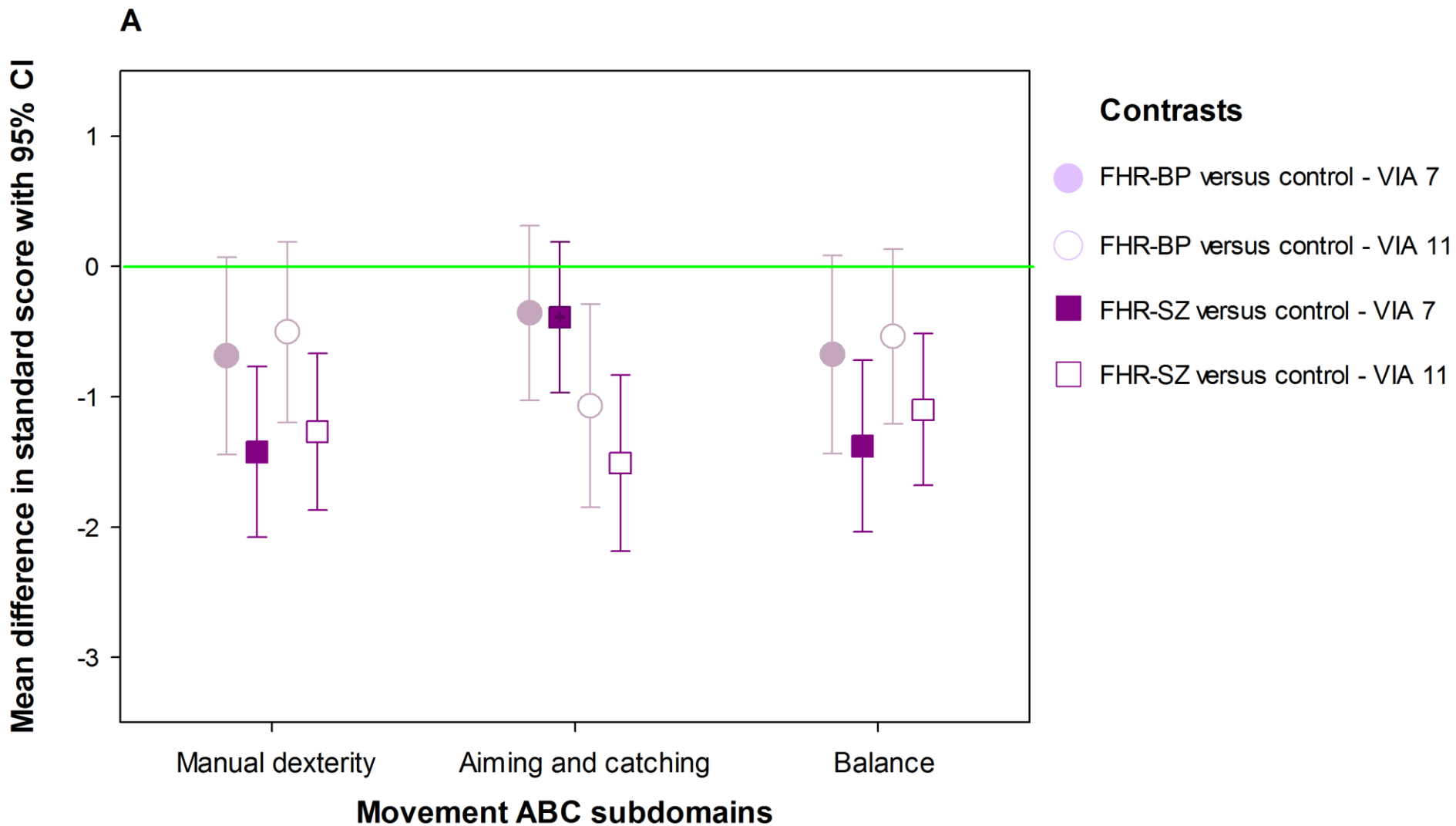
Ellersgaard et al, Sciz Res 2020,
Gregersen in revision, Am J Psych

Results from VIA 7 and VIA 11: Proportion with inadequate HOME environment

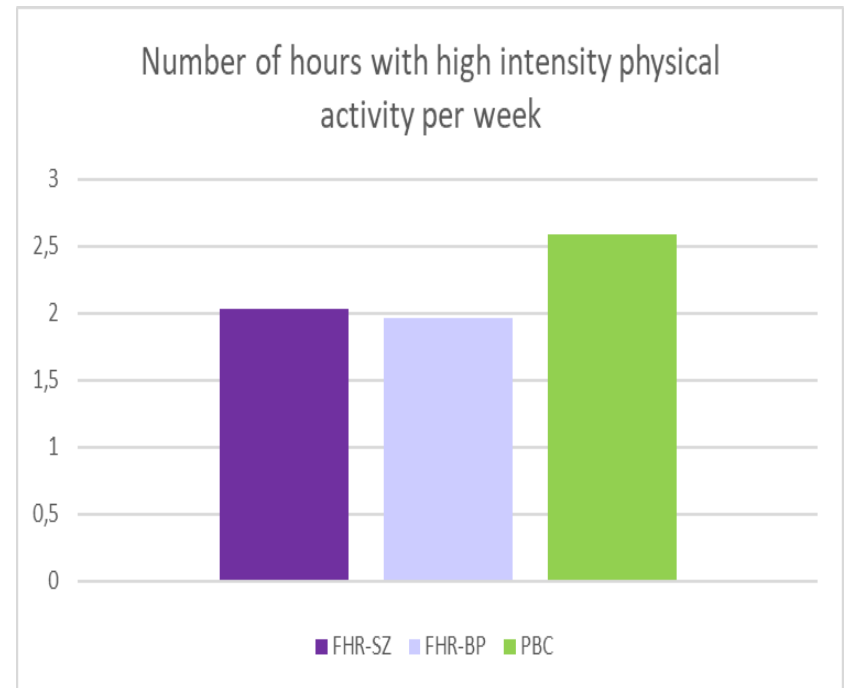
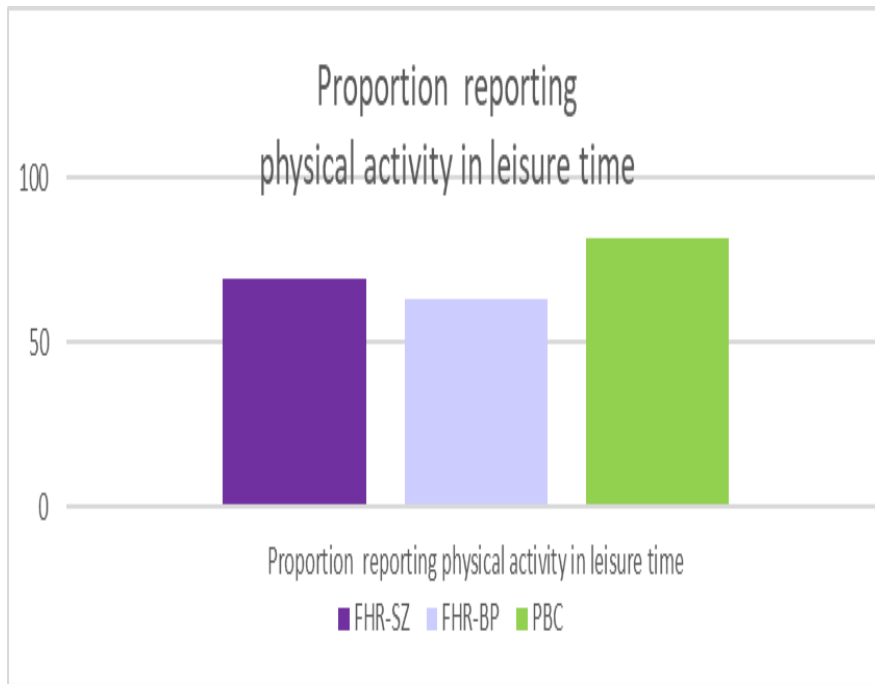


Gantriis. Acta Psych Scand 2019,
Falkenberg Krantz, Psychological Medicine 2021

Results from VIA 7 and VIA 11: Motor Functioning

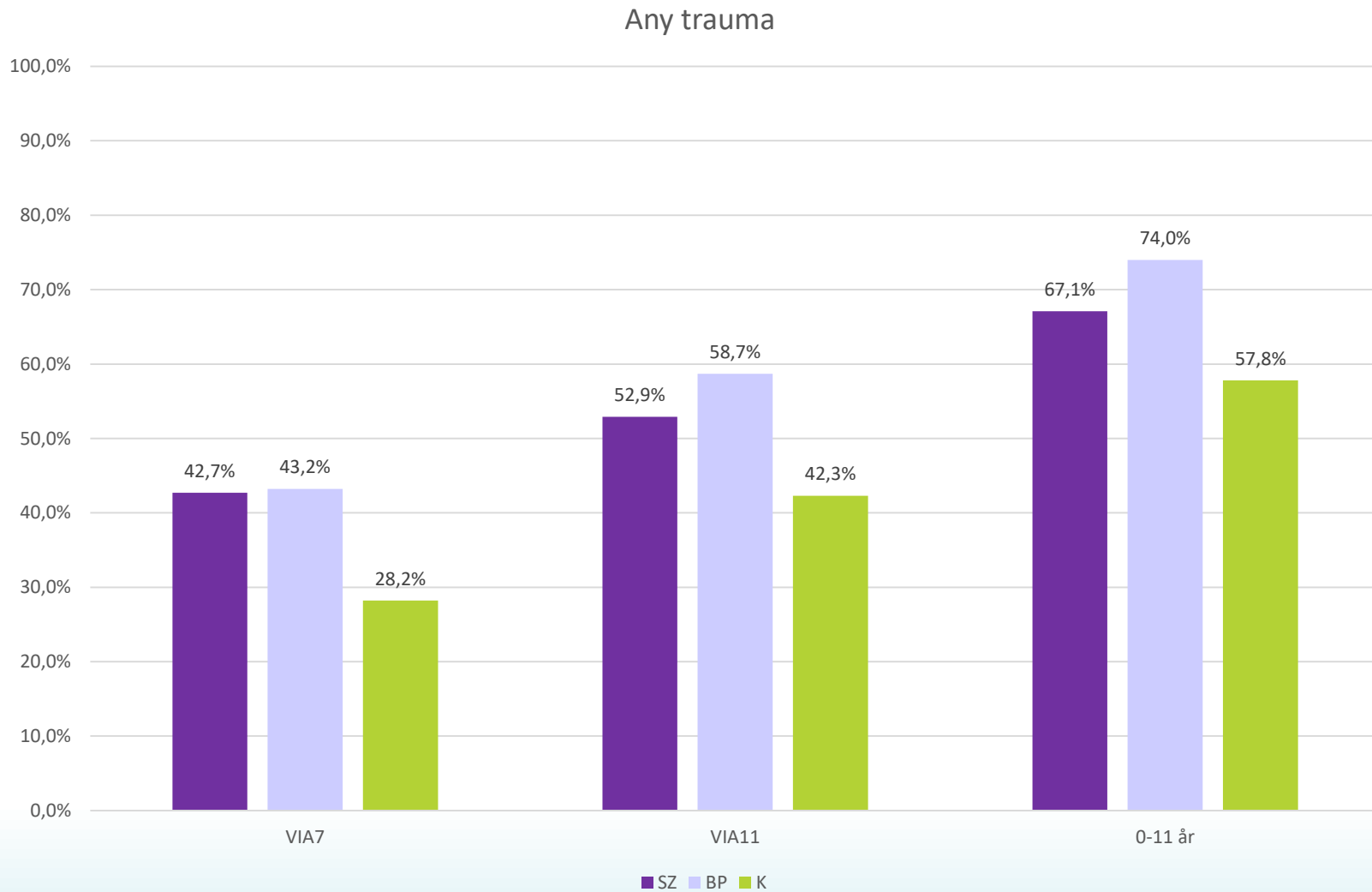


Results from VIA 11: Reporting physical activity and number of hours with high intensity physical activity



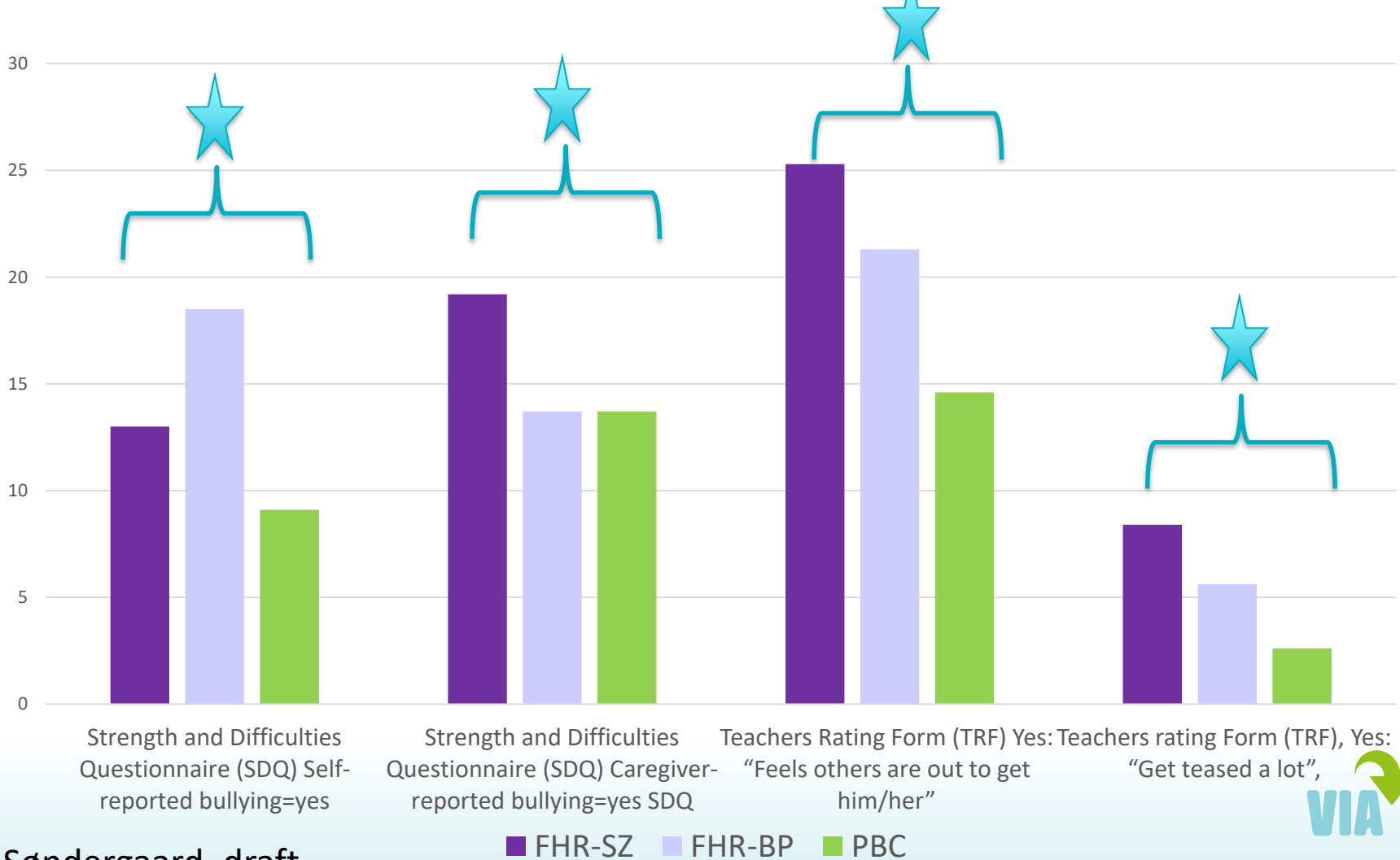
Søndergaard A. et al, Schizophrenia Bulletin Open 2021

Proportion with any trauma, reported at age 7, 11 and lifetime

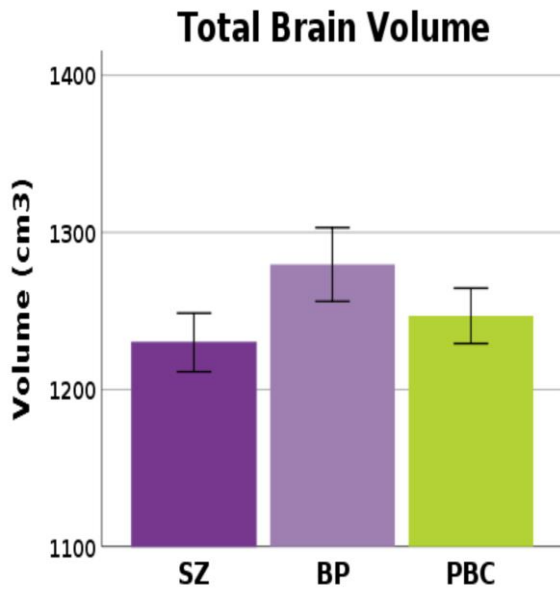


Children's, teachers' and caregivers' reports about child being bullied, age 11

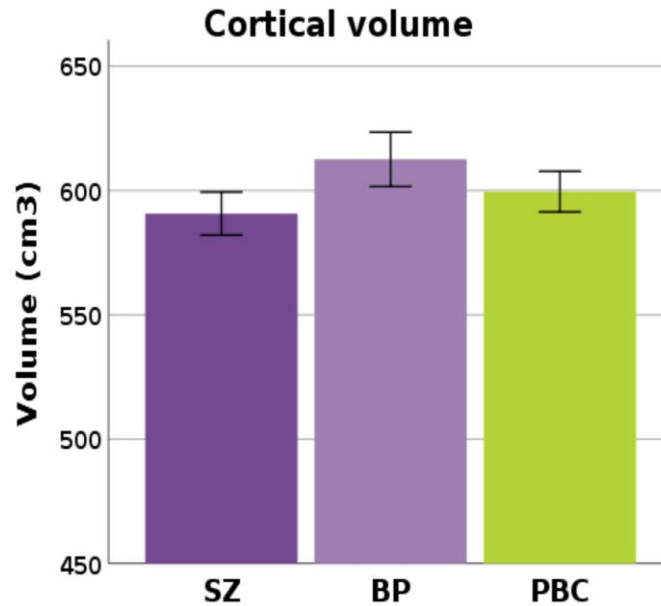
Proportion being bullied: self-report, caregivers and teachers report



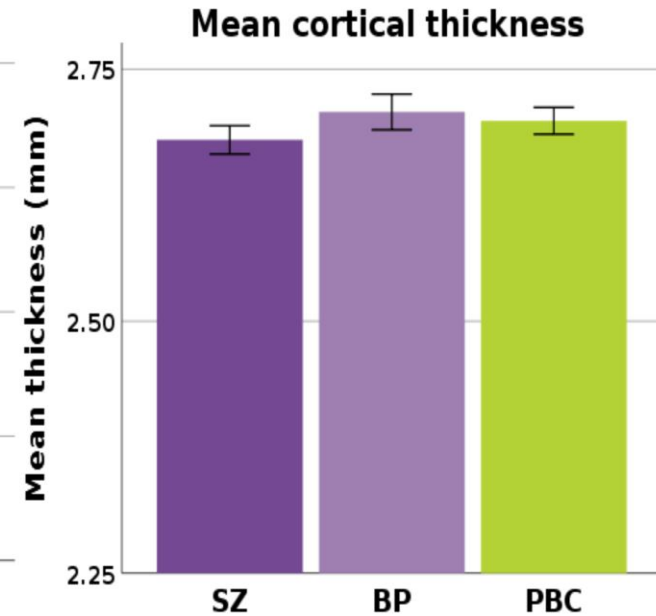
VIA 11: Brainmap



Group: $F = 5.335$, $p = 0.005$



Group: $F = 4.768$, $p = 0.009$



Group: $F = 3.239$, $p = 0.041$

Covariates: age, sex, site

Take home message VIA 7 and VIA 11 – so far

-Children of parents with schizophrenia versus controls

- More likely to live in inadequate home environment
- Higher proportion have child psychiatric disorders
- More psychotic experiences
- Lower cognitive function
- Poorer understanding of language
- Poorer motor functioning
- Less high intensity physical activity
- More traumatic life events
- More likely to be bullied
- Structural brain changes at age 11
- A group of children of parents with schizophrenia have impairments in almost all domains
- This group is also living in more difficult life circumstances

Researchers in VIA 7 and VIA 11

Merete Nordentoft, Prof, DMSc

Anne Thorup, Prof, MD, PhD

Ole Mors, Prof., MD, PhD.

Hartwig Siebner, Prof PhD

William Baaré, PhD

Torben Lund, PhD

Leif Østergaard, Prof, PhD

Vibeke Bliksted, PhD.

Carsten Hjorthøj. Ass Prof, PhD

Claus Thorn Ekstrøm, Prof, PhD

Ron Nudel, PhD

Katrine Skak Madsen

Melissa Larsen

Nicoline Hemager, PhD

Kerstin Plessen, Prof, MD, PhD.

Jens Richardt Jepsen, PhD.

Ditte Ellersgaard, MD, PhD

Birgitte Burton, MD, PhD

Camilla Christiani, PhD

Anne Ranning, Psych. PhD.

Katrine Spang, MD

Anne Søndergaard

Kate Zahle

Maja Gregersen

Ditte-Marie Henriksen, PhD

Kathrine Skak Madsen, PhD

Ditte Lou Gantriis, PhD

Aja Greve Neergaard, PhD

Julie Marie Brandt

Mette Falkenberg Krantz, PhD

Sinneka Roed

Martin Wilms

Christina Bruun Knudsen

Anna Krogh

Lotte Vedum

Anna Hester van Themaat

Line Johnsen

Merete Birk

Anette Bundsgaard

Jamal Uddin, PhD

Åsa Prøsch

Marie Nymand

Oskar Hougaard Jepsen

Mette Enevoldsen

Line Carmichael

Jessica Ohland

Collaborators:

KHORA Virtual Reality

SENS Motion

Troels Kjær, Prof PhD

Klaus Kaae Andersen, Prof, PhD

Thomas Werge, Prof PhD

Preben Mortensen, Prof DMSc

Carsten B. Pedersen, Prof DMSc

Marianne Giørtz Pedersen

David Hougaard, PhD

Jonas Grauholm, PhD

Jun Peng Wang, PhD

Signe Vangkilde, PhD.

Susanne Harder, Prof, PhD.

Barbara Hoff, Psych, PhD

Rudolf Uher, Prof, PhD

Dost Öner Prof PhD