

Rolf van Dick

**Unlocking good health through social
connections**

**ETH Zürich
5 October 2023**

An Exercise

Rank the following 11 factors in terms of their importance as predictors of mortality:

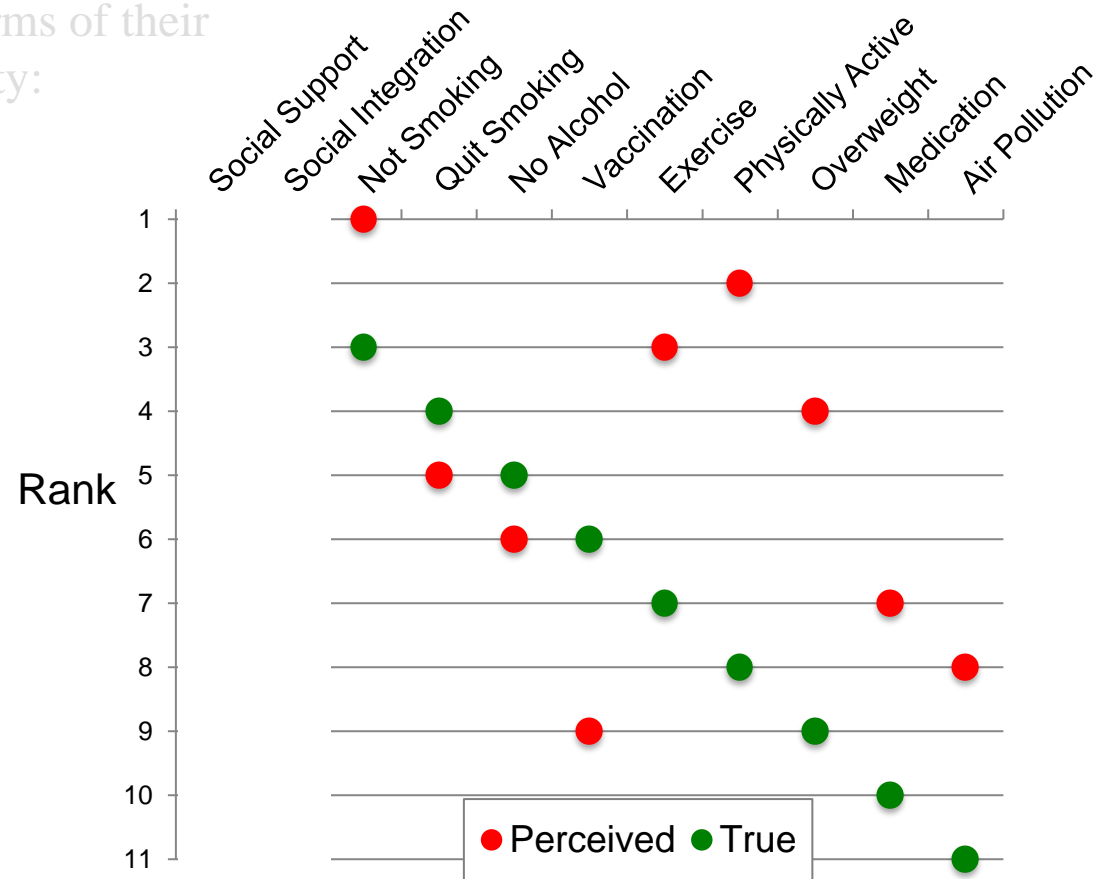
- Not smoking
- Quitting smoking
- Not being obese
- Being exposed to air pollution
- Receiving social support
- Taking appropriate medication
- Exercising
- Being socially integrated
- Being physically active
- Not drinking excessive alcohol
- Flu vaccination

(Holt-Lunstad et al, 2010, *PloS Med*; 148 studies; 308,849 Ps)

An Exercise

Rank the following 11 factors in terms of their importance as predictors of mortality:

- Not smoking
- Quitting smoking
- Not being obese
- Being exposed to air pollution
- Receiving social support
- Taking appropriate medication
- Exercising
- Being socially integrated
- Being physically active
- Not drinking excessive alcohol
- Flu vaccination

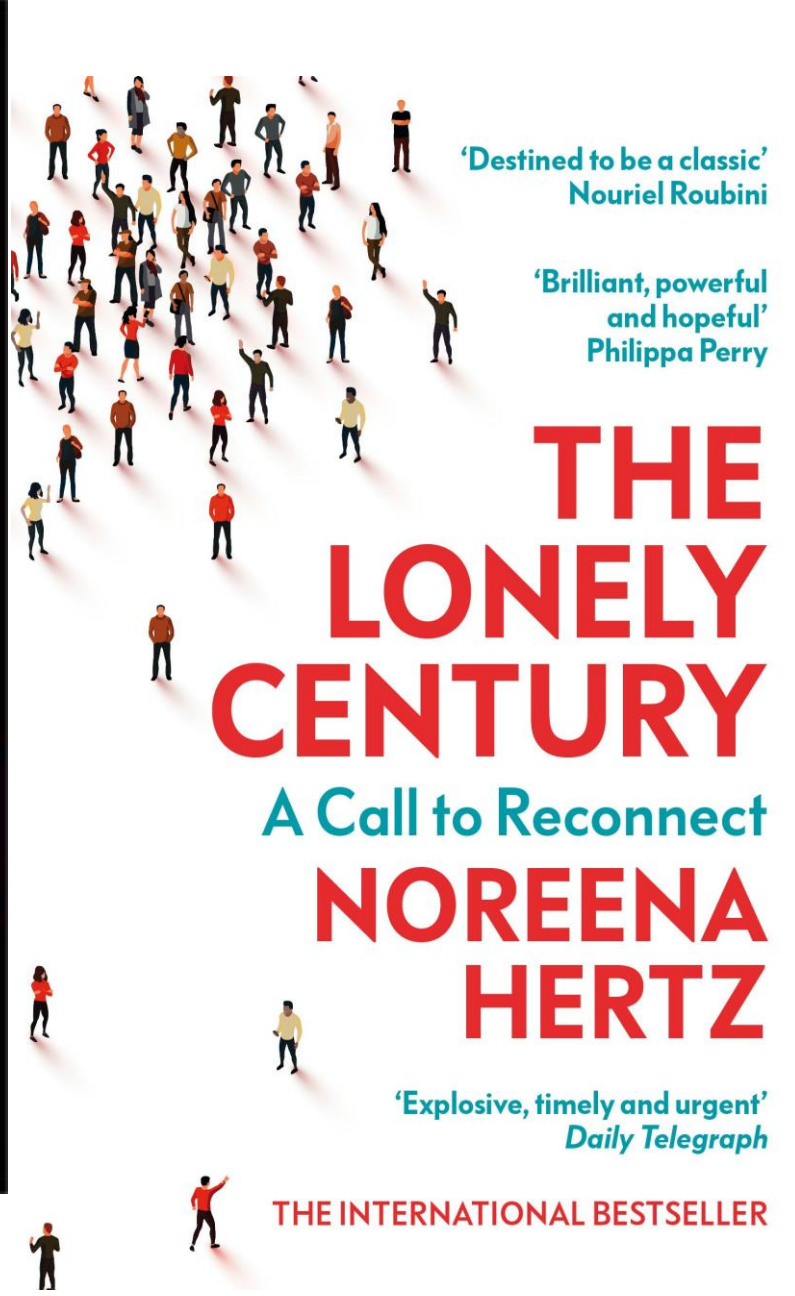
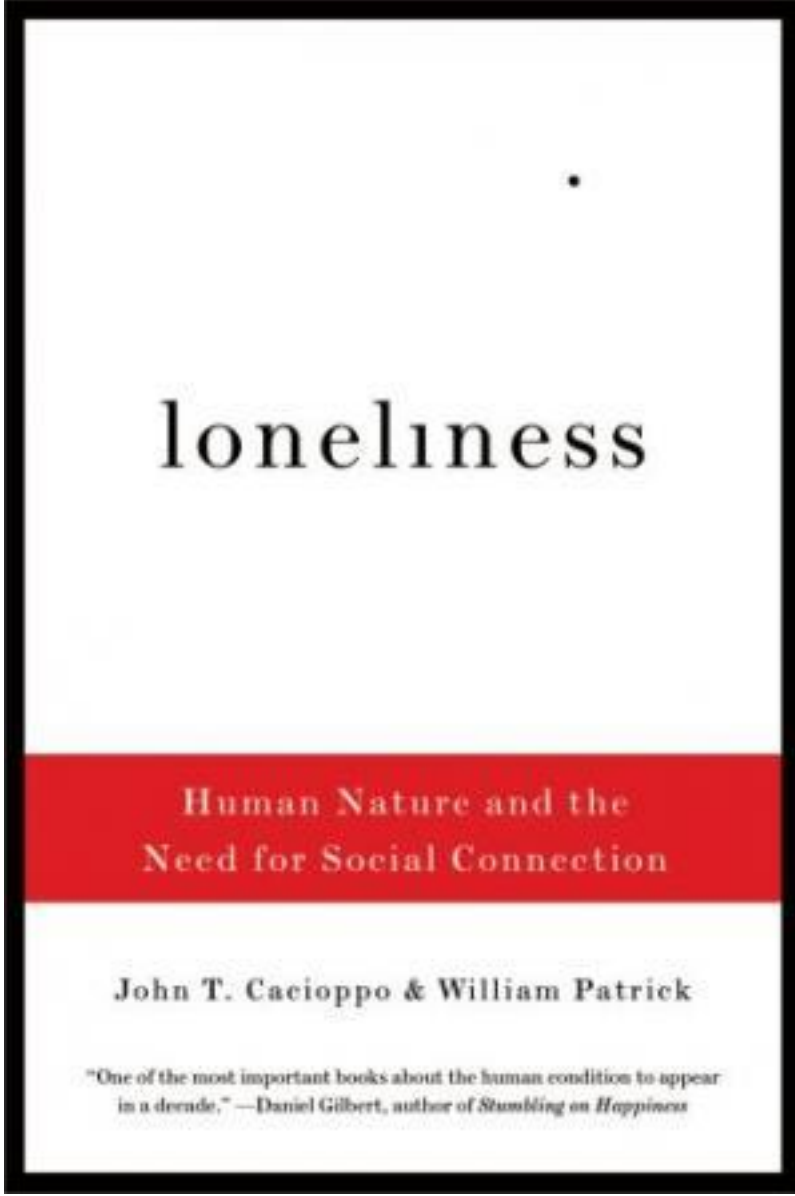


„Loneliness kills“

Holt-Lundstad et al. (2015) in another meta-analysis of > 70 prospective studies (with an average duration of 7 years, participants at the start averaged 60 years) found significant relations between mortality and...

- social isolation (29% higher likelihood of death),
- Loneliness (26%)
- Living alone (32%)

(even when controlling for age, socioeconomic status and health at the start of the study)



'Destined to be a classic'
Nouriel Roubini

'Brilliant, powerful
and hopeful'
Philippa Perry

**THE
LONELY
CENTURY**
A Call to Reconnect
**NOREENA
HERTZ**

'Explosive, timely and urgent'
Daily Telegraph

THE INTERNATIONAL BESTSELLER



ARTICLE

Open Access

Psycho-social factors associated with mental resilience in the Corona lockdown

Ilya M. Veer¹, Antje Rippenhausen^{1,2}, Matthias Zerban³, Carolin Wackerhagen¹, Lara M. C. Puhmann^{1,4,5}, Haakon Engen^{3,6}, Göran Köber^{7,8}, Sophie A. Bögemann⁹, Jeroen Weermajer¹⁰, Aleksandra Uščilko¹¹, Netali Mor^{12,13}, Marta A. Marciniak^{14,15}, Adrian Dahl Askelund¹⁶, Abbas Al-Kamel¹⁶, Sarah Ayash¹⁶, Giulia Barsuola¹⁷, Vaida Bartkute-Norkuniene¹⁸, Simone Battaglia¹⁹, Yaryna Bobko²⁰, Sven Bölte^{21,22,23}, Paolo Cardone⁴, Edita Chvojková²⁴, Kaja Damnjanović²⁵, Joana De Calheiros Velozo¹⁰, Lena de Thurah¹⁰, Yacila I. Deza-Araujo^{26,27}, Annika Dimitrov¹, Kinga Farkas^{28,29}, Clémence Feller³⁰, Mary Gazea³¹, Donya Gilan^{4,32}, Vedrana Gnjidić³³, Michal Hajduk^{34,35,36}, Anu P. Hiekkaranta¹⁰, Live S. Hofgaard³⁷, Laura Ilen³⁰, Zuzana Kasanova³⁸, Mohsen Khanpour³⁹, Bobo Hi Po Lau⁴⁰, Dionne B. Lenferink⁹, Thomas B. Lindhardt⁴¹, Dávid Á. Magas²⁹, Julian Mituniewicz¹¹, Laura Moreno-López⁴², Sofia Muzychka²⁰, María Ntafouli⁴³, Aet O'Leary^{44,45}, Ilenia Paparella⁴⁶, Nele Pöldver⁴⁶, Aki Rintala^{10,47}, Natalia Robak⁴⁸, Anna M. Rosická⁴⁰, Espen Røysamb³⁷, Savash Sadeghi⁵⁰, Maude Schneider³⁰, Roma Siugzdaitė^{17,51}, Mirta Stantić⁵², Ana Teixeira¹⁰, Ana Todorovic⁵³, Wendy W. N. Wan⁵³, Rolf van Dick^{16,54}, Klaus Lieb^{4,32}, Birgit Kleim^{14,15}, Erno J. Hermans⁹, Dorota Kobylińska¹¹, Talma Hendler^{12,13,55,56}, Harald Binder^{7,8}, Inez Myin-Germeys¹⁰, Judith M. C. van Leeuwen⁹, Oliver Tüscher^{16,32}, Kenneth S. L. Yuen³⁴, Henrik Walter¹² and Raffael Kalisch^{16,34}

Abstract

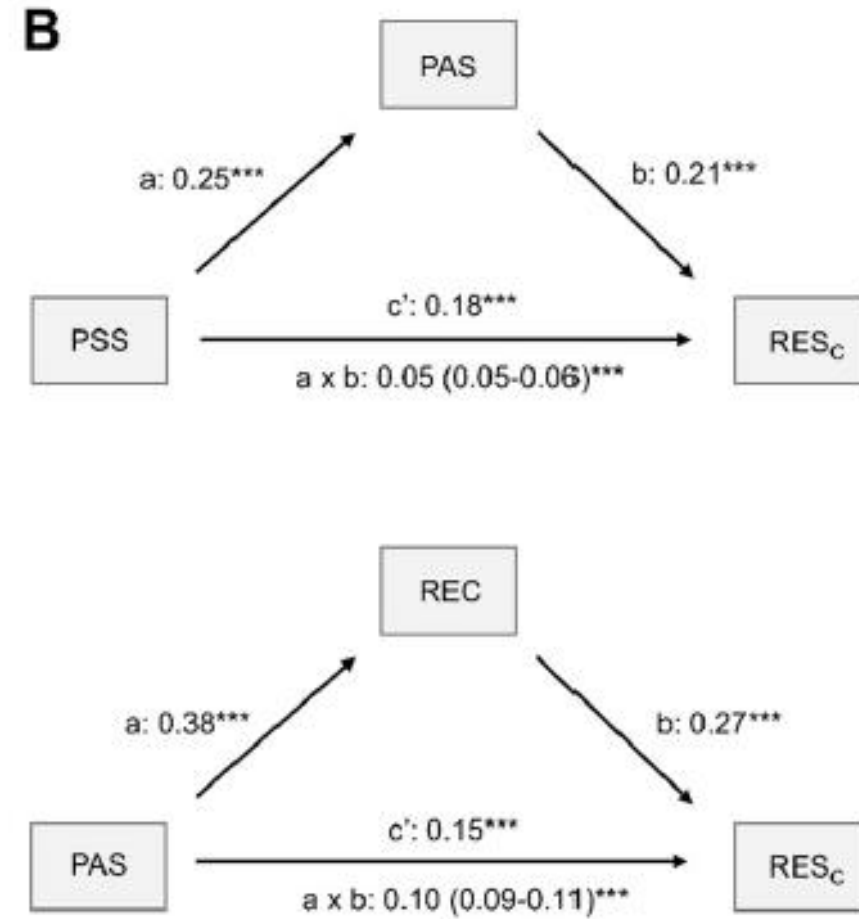
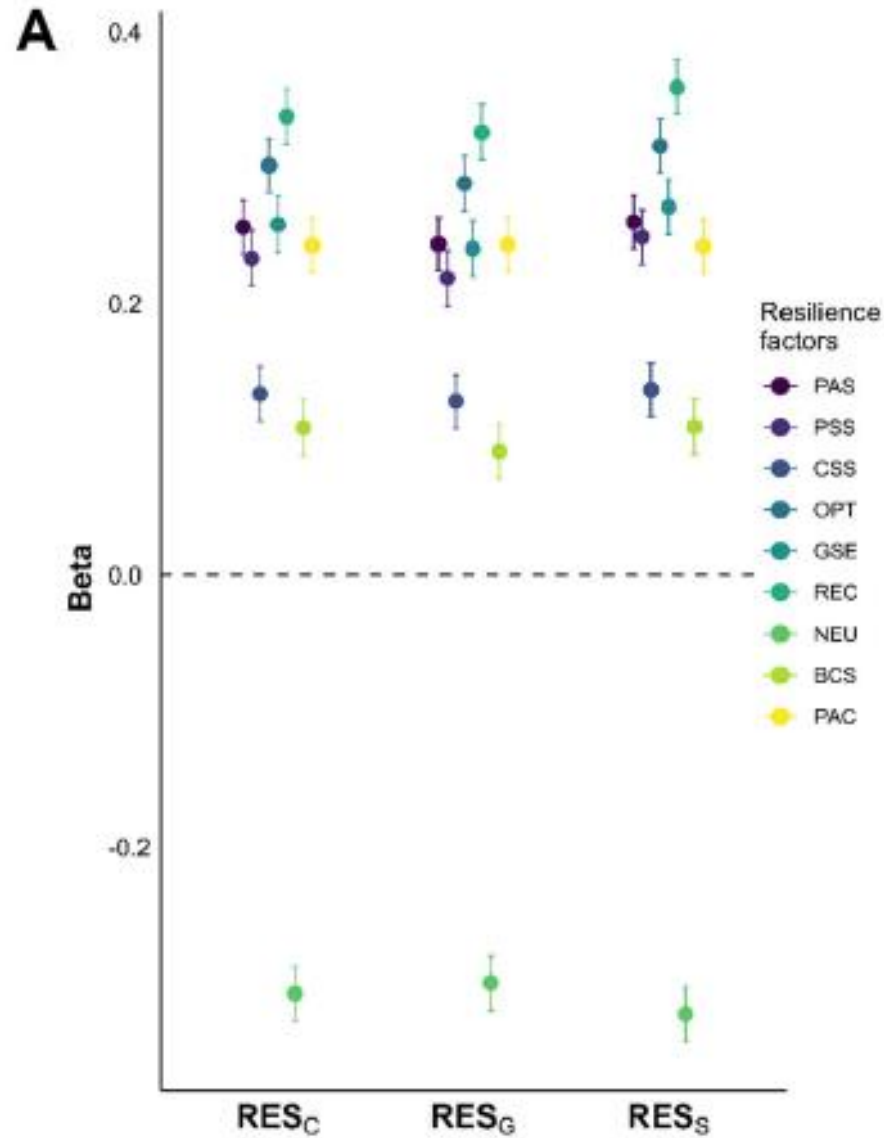
The SARS-CoV-2 pandemic is not only a threat to physical health but is also having severe impacts on mental health. Although increases in stress-related symptomatology and other adverse psycho-social outcomes, as well as their most important risk factors have been described, hardly anything is known about potential protective factors. Resilience refers to the maintenance of mental health despite adversity. To gain mechanistic insights about the relationship between described psycho-social resilience factors and resilience specifically in the current crisis, we assessed resilience factors, exposure to Corona crisis-specific and general stressors, as well as internalizing symptoms in a cross-sectional online survey conducted in 24 languages during the most intense phase of the lockdown in Europe (22 March to 19 April) in a convenience sample of $N = 15,970$ adults. Resilience, as an outcome, was conceptualized as good mental health despite stressor exposure and measured as the inverse residual between actual and predicted symptom total score. Preregistered hypotheses (osf.io/v6bfn) were tested with multiple regression models and mediation analyses. Results confirmed our primary hypothesis that positive appraisal style (PAS) is positively associated with resilience ($p < 0.0001$). The resilience factor PAS also partly mediated the positive association between perceived social support and resilience, and its association with resilience was in turn partly mediated by the ability to easily recover from stress (both $p < 0.0001$). In comparison with other resilience factors, good stress response recovery and positive appraisal specifically of the consequences of the Corona crisis were the strongest factors. Preregistered exploratory subgroup analyses (osf.io/thka9) showed that all tested resilience factors generalize across major socio-demographic categories. This research identifies modifiable protective factors that can be targeted by public mental health efforts in this and in future pandemics.

Correspondence: Raffael Kalisch (rkalisch@uni-mainz.de)

¹Research Division of Mind and Brain, Department of Psychiatry and Psychotherapy CCM, Charité-Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Berlin, Germany

Introduction

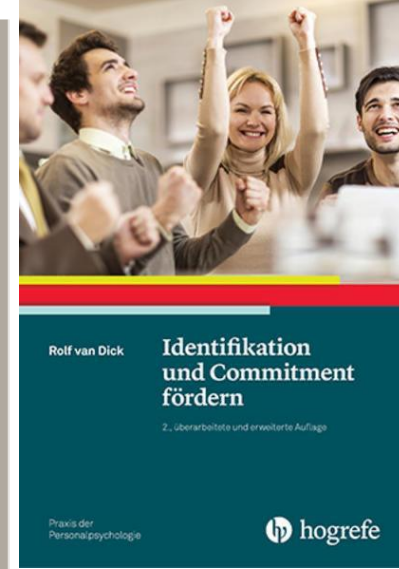
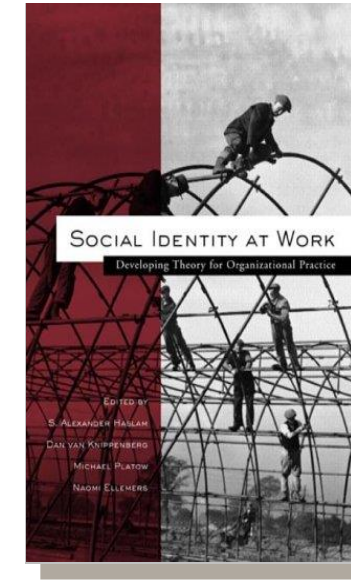
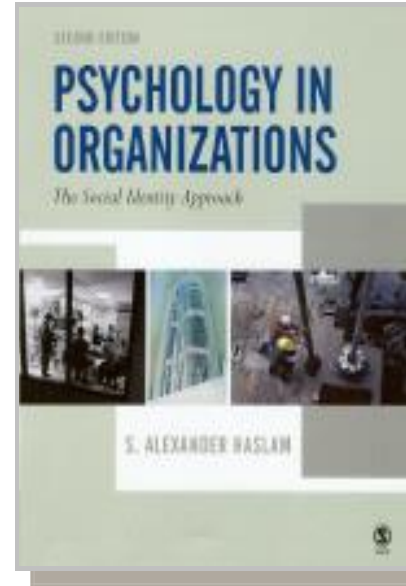
Pandemics can induce high levels of stress and result in mental health problems, including depression, anxiety,



Overview

- The social identity approach
- Hypotheses
- Empirical evidence
- An exercise: Your social identity map
- More empirical evidence
- Conclusions

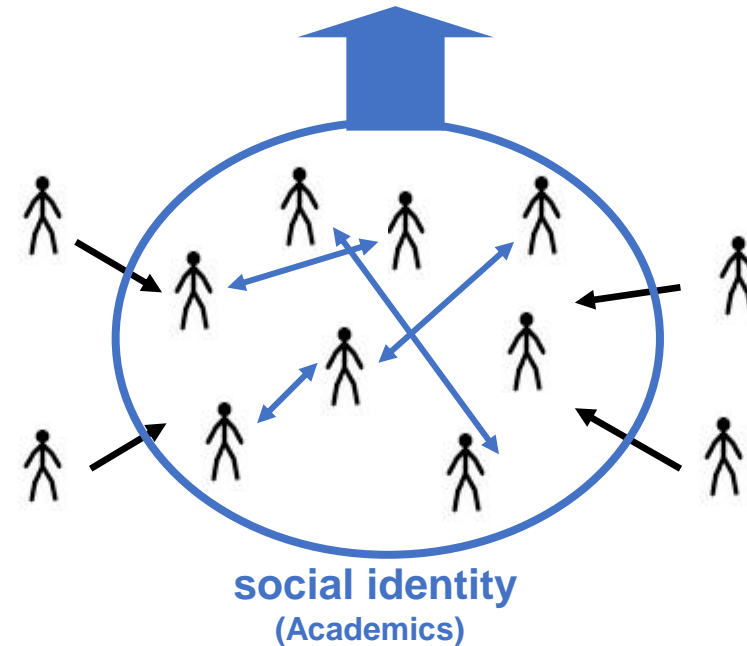
The social identity approach



- Incorporating principles from social identity theory (Tajfel & Turner, 1979) and self-categorization theory (Turner et al., 1987).
- Argues that there is a **qualitative** difference between behaviour that is based on personal identity ('I') and that based on social identity ('we').

The social identity approach

- When a social identity (a social self-category; e.g., ‘us psychologists’, ‘us academics’) becomes salient, this has a number of important implications for social and organizational behaviour (Haslam, 2004; van Dick, 2004).
- In particular, those who share this identity are more likely to:
 - perceive themselves as relatively **interchangeable**
 - engage in **mutual influence** (because they perceive themselves to have a common perspective on reality)
 - **co-ordinate** their behaviour with reference to emergent group norms (e.g., those that define the group as positively distinct from other groups)
 - **work collaboratively** to advance the interests of the group as a whole.



The social identity approach

- These ideas have implications for a broad range of social and organizational issues (e.g., Haslam, 2004; Haslam et al., 2003; van Dick, 2001, 2004; Riketta & van Dick, 2005; Lee, Park & Ko, 2015).
- e.g., **leadership, motivation, turnover, productivity** (e.g., van Dick et al., 2004a, 2004b, 2007; Ullrich, Christ & van Dick, 2009; Wieseke, Ahearne, Lam, & van Dick, 2009)
- e.g., **citizenship**: To the extent that people define themselves in terms of social identity, they should be more willing to engage in behaviour which promotes the interests of the group to which that identity relates — even if this involves personal cost. (e.g., Christ, van Dick, Wagner, & Stellmacher, 2003; van Dick et al., 2006)

But do they have any implications for **well-being and mental health**?

Social identity, well-being and mental health:

Hypotheses (van Dick & Haslam, 2012)

- To the extent that they define themselves in terms of shared group membership, individuals should **provide, receive, and benefit from the social support** of fellow ingroup members (Branscombe et al., 1999; Postmes & Branscombe, 2002).
- Among other things, this is because social identity provides the basis for a **shared cognitive framework** which means any help will be interpreted in the spirit in which it is intended. This is also associated with identity-based **trust** (reduced paranoia).
- It should also mean that individuals have greater potential for **collective** self-actualization. This should manifest itself in an enhanced **sense of collective accomplishment**.



Social identity, stress and mental health:

Measurement of identification/ shared identity

- When someone praises my organization, it feels like a personal compliment.
- When someone criticizes my organization, it feels like a personal insult.
- I am very interested in what others think about my organization.
- When I talk about my organization, I usually say “we” rather than “they”.
- My organization’s successes are my successes.

(e.g., Mael & Ashforth, 1992; van Dick et al., 2004; Doosje et al., 2005)

Social identity, well-being and mental health: First (correlational) evidence

- Van Dick & Wagner (2002): 2 studies among German schoolteachers
 - Study 1 (N=201): organizational identification – physical symptoms: $r=-.30$
 - Study 2 (N=283): occupational identification – physical symptoms: $r=-.41$; team identification – physical symptoms: $r=-.28$
- Wegge & van Dick (2006; N=161 call center employees):
 - Org. identification – burnout (EE: $r=-.28$; PA: $r=.48$; DP: $r=-.40$)

Survey data:

Employees' reports of stress and well-being (Haslam et al., *BJSP*, 2005)

- Is social identification associated with increased social support and does this protect individuals from adverse effects of stress?
- Survey of **bar workers and bomb disposal experts** ($N = 40$).

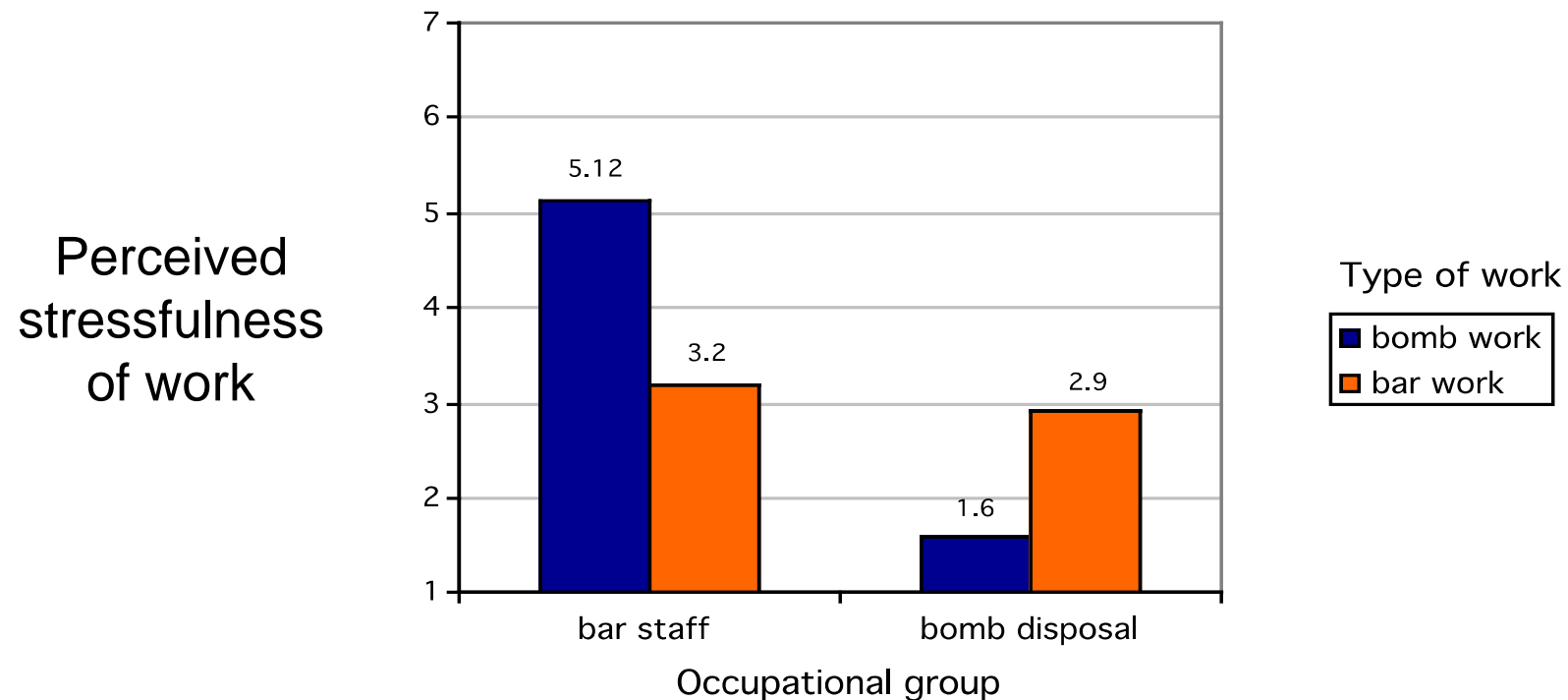


- Self-report measures
 - Social identification with workteam (2 items, $\alpha = .81$)
 - Social support (3 items, $\alpha = .81$)
 - Work stress (5 items, $\alpha = .68$)
 - Perceived stress of bomb disposal work (3 items, $\alpha = .95$)
 - Perceived stress of bar work (2 items, $\alpha = .71$)

Survey data:

Employees' reports of stress and well-being (Haslam et al., *BJSP*, 2005)

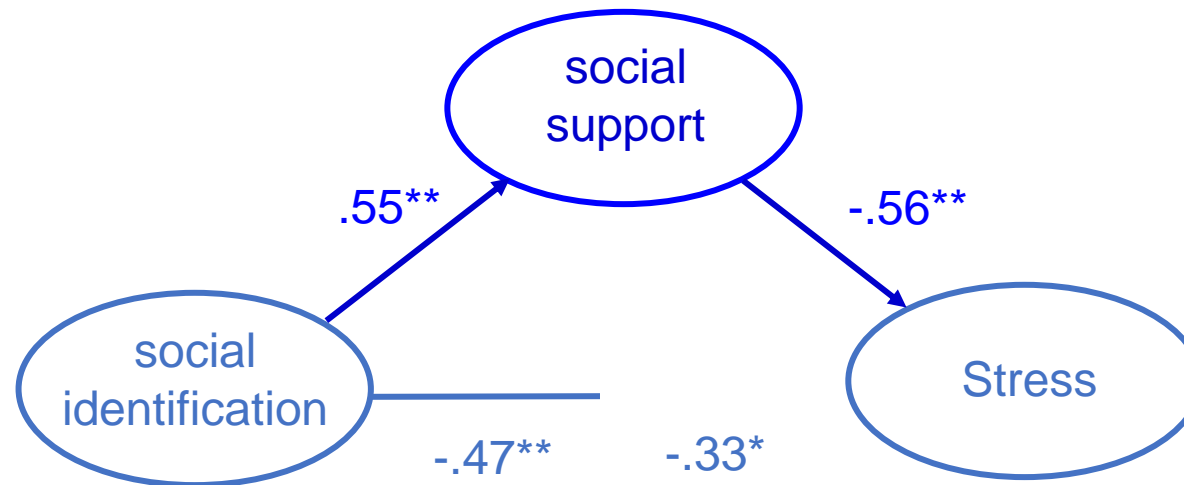
- Bar workers find handling bombs more stressful than bar work, but bomb handlers report the opposite.
- Group membership provides a basis for interpreting and normalizing stress



Survey data:

Employees' reports of stress and well-being (Haslam et al., *BJSP*, 2005)

- In both groups, social identification is associated with
 - receipt of more social support
 - less stress



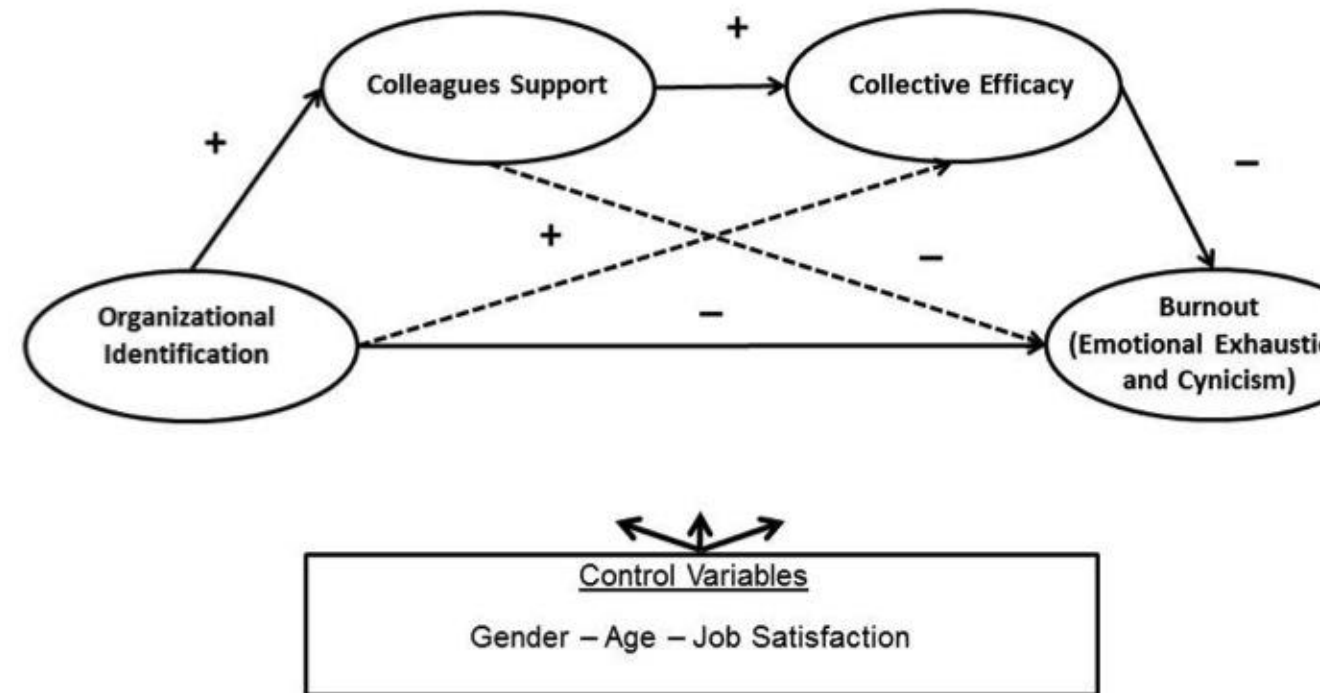
- Relationship between social identification and well-being is mediated by social support.

Processes!

192 Italian high-school teachers, 2500 Swiss teachers, 280 students

(Avanzi, Schuh, Fraccaroli, & Van Dick, 2015, W&S; Avanzi et al., 2018, TATE; Junker et al., 2019, BJSP)

- Organizational identification is associated with
 - receipt of more social support from colleagues
 - feelings of higher collective efficacy
 - lower burnout



Team Identification and Burnout

Emotional and instrumental support as a trigger for two different Social Cure Mechanisms (Frenzel et al., 2023, BJSP)

► Method

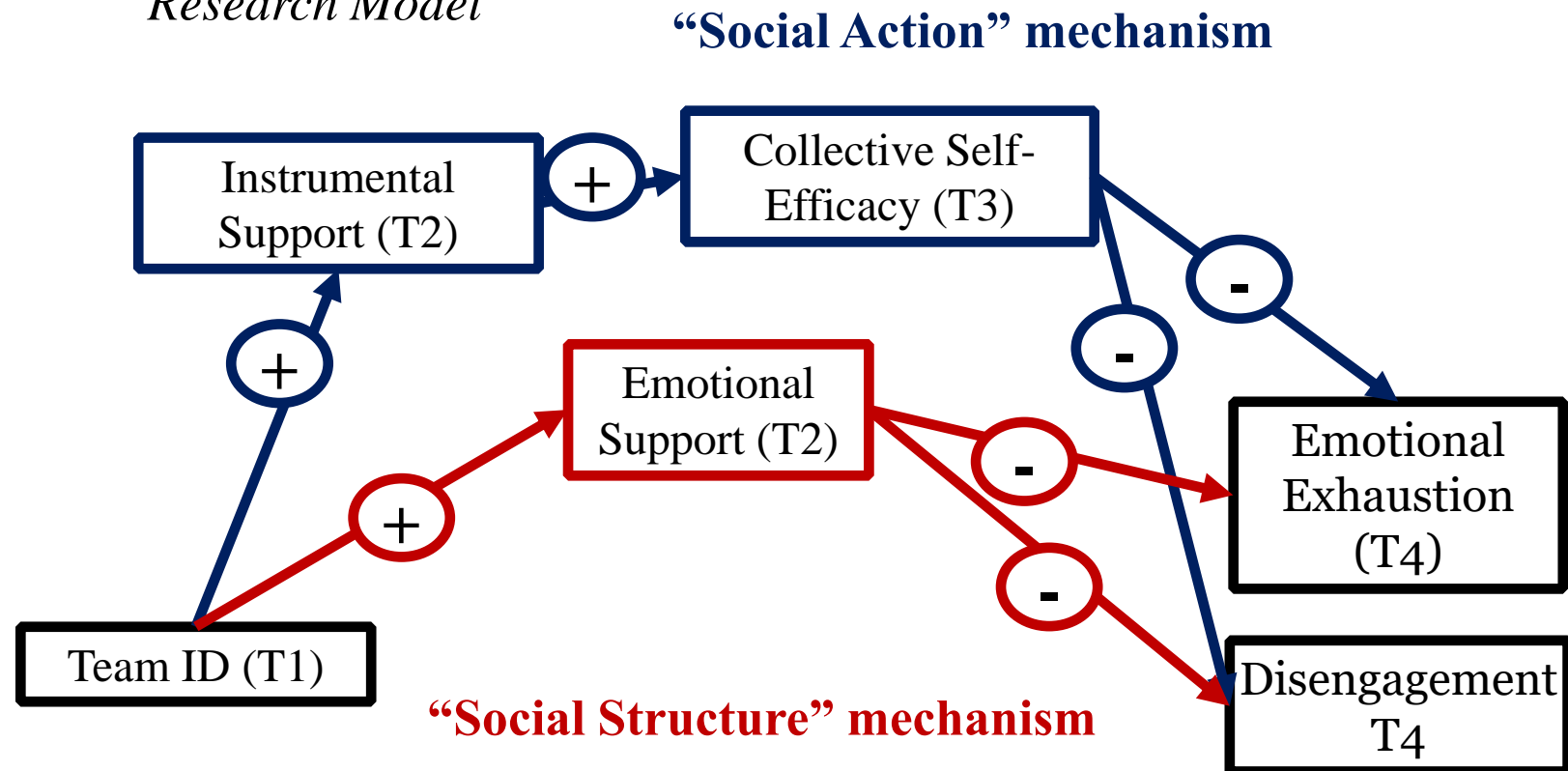
- 4 waves

► Sample

- $N_{Time1} = 567$
- 47 years
- 45 % female

SEM with latent factors

Figure 1
Research Model



Experimental data 1:

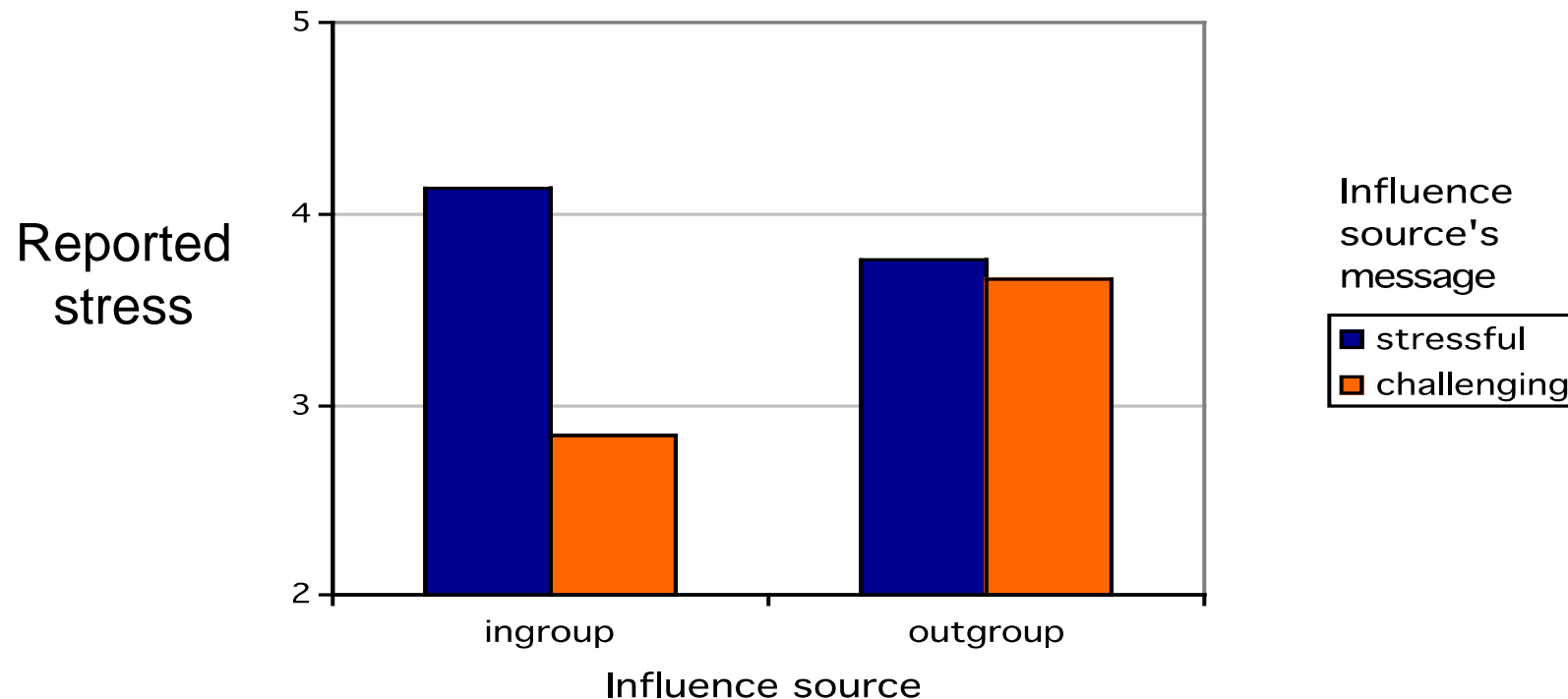
Students' appraisal of stress and well-being (Haslam et al., S&H, 2004)

- Does social identification affect appraisal?
- Modification of classic Lazarus (e.g., 1966) study.
 - Participants exposed to message that an arithmetic task is **challenging** or **stressful**.
 - But message emanates from person described as either ingroup member (a fellow student), or outgroup member (a stress sufferer).
- Outcome measures:
 - Self-reported stress while performing task (22 items, $\alpha = .92$).

Experimental data 1:

Students' appraisal of stress and well-being (Haslam et al., S&H, 2004)

- Does social identification affect appraisal?
- Yes. Appraisal (and associated reaction to a potential stressor) only responds to informational support if this emanates from an ingroup source.



Experimental data 2:

Identity as stress buffer

(Häusser, Kattenstroth, van Dick & Mojzisch, JESP,

2012)

• Does shared identity buffer against stress?

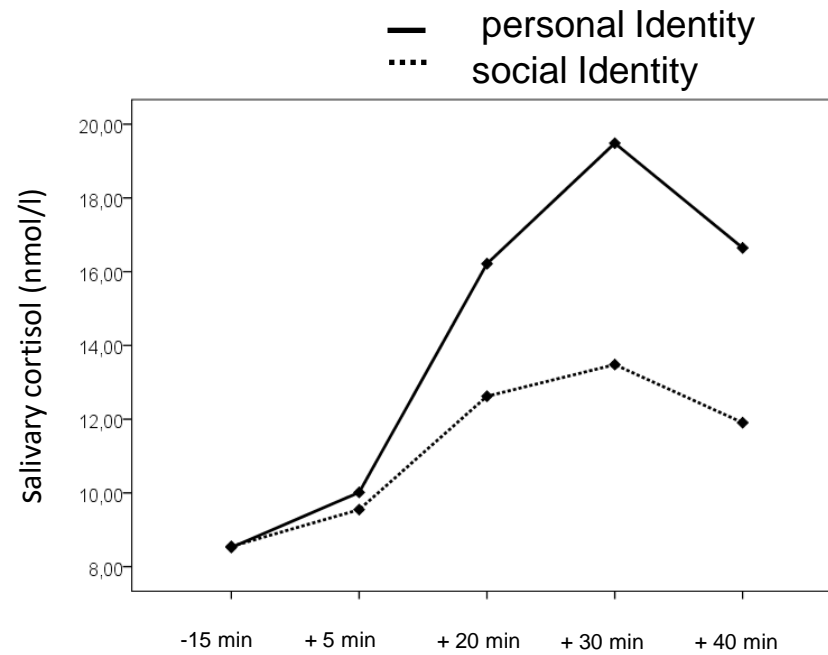
- Students were assigned to one of two conditions in groups with high versus low shared identity
- Next, they completed the Trier Social Stress Test:
 - Giving a job talk to a jury
 - Counting backwards in steps of 17, starting from 2043
- DV:
 - Changes in Cortisol levels

Experimental data 2: Identity as stress buffer

2012)

(Häusser, Kattenstroth, van Dick & Mojzisch, JESP,

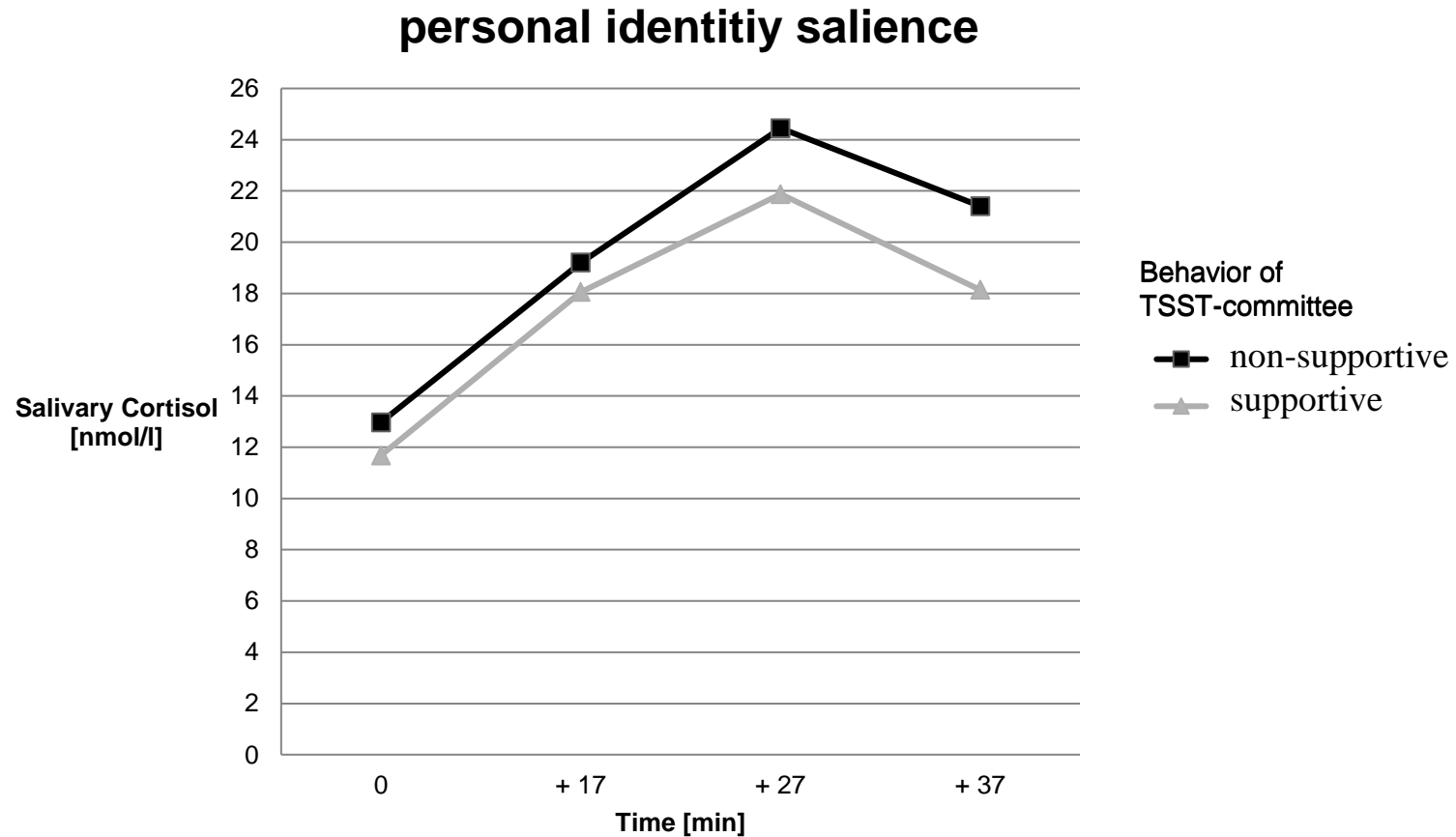
- Does shared identity buffer against stress?



Experimental data 3: Identity as stress buffer

(Frisch, Häusser, van Dick & Mojzisch, 2014)

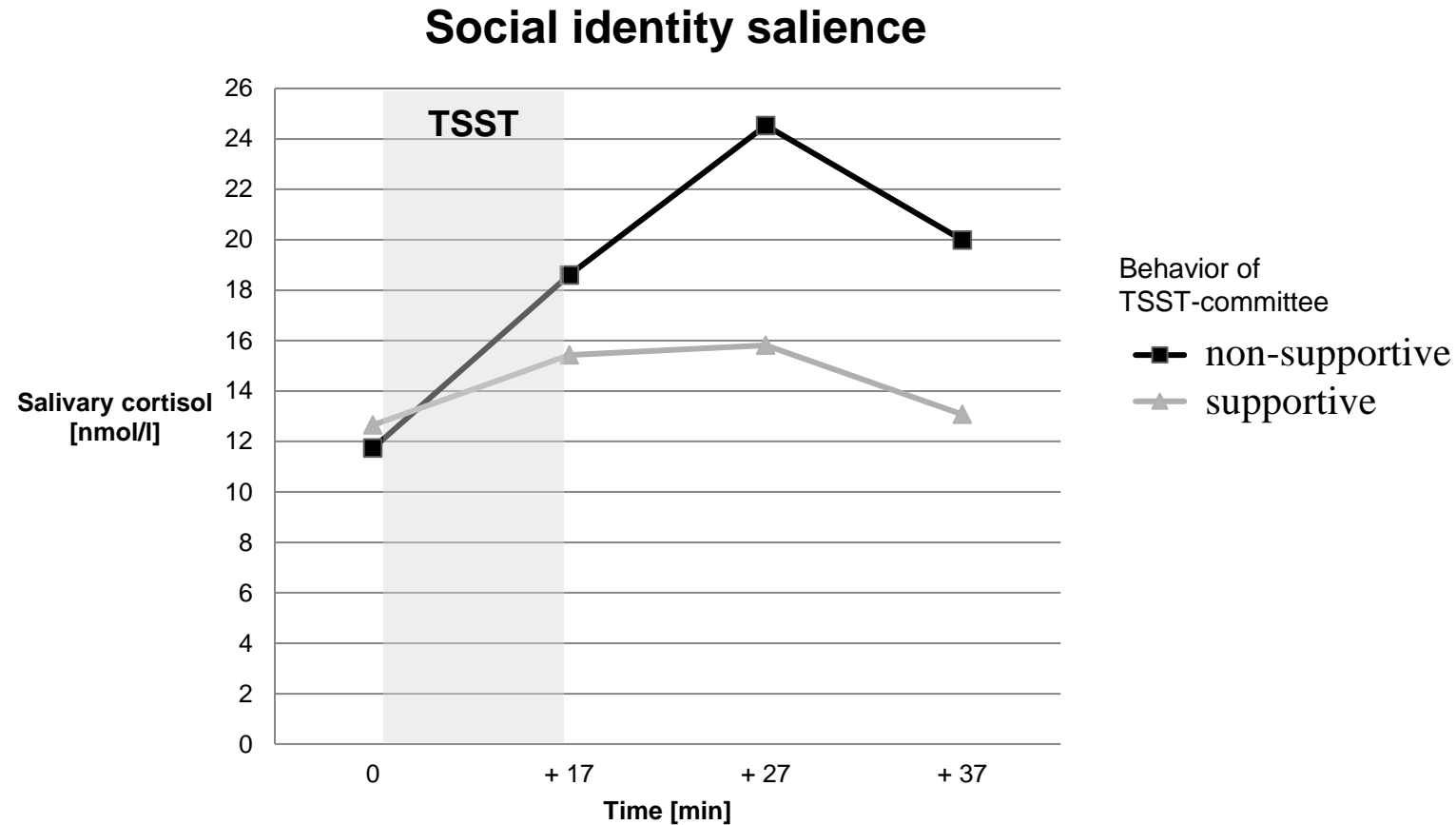
- Does shared identity help utilize social support?



Experimental data 3: Identity as stress buffer

(Frisch, Häusser, van Dick & Mojzisch, 2014)

- Does shared identity help utilize social support?



The G4H program



1. Schooling

- Raising awareness of the value of groups for health and of ways to harness this.

2. Scoping

- Developing social maps to identify existing connections and areas for social growth.

3. Sourcing

- Training skills to maintain and utilise existing networks and reconnect with valued groups

4. Scaffolding

- Using therapy group as platform for new social connections and to train effective engagement.

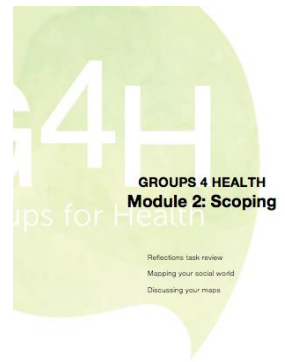
5. Sustaining

- Reinforcing key messages and troubleshooting (held one month later as a “booster” session).





Module contents

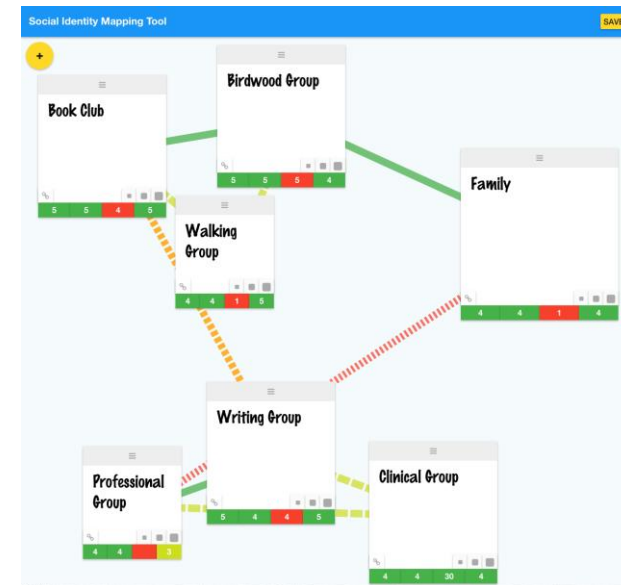
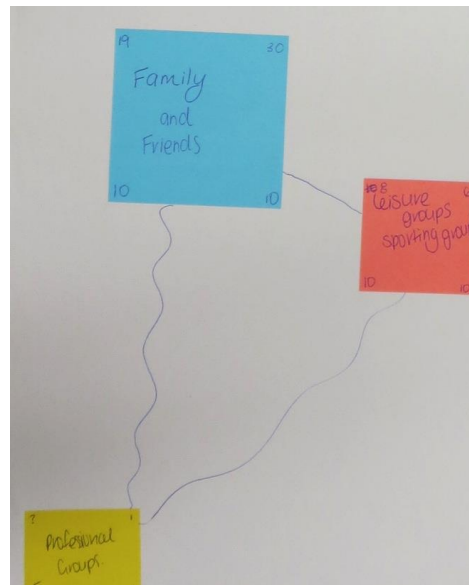


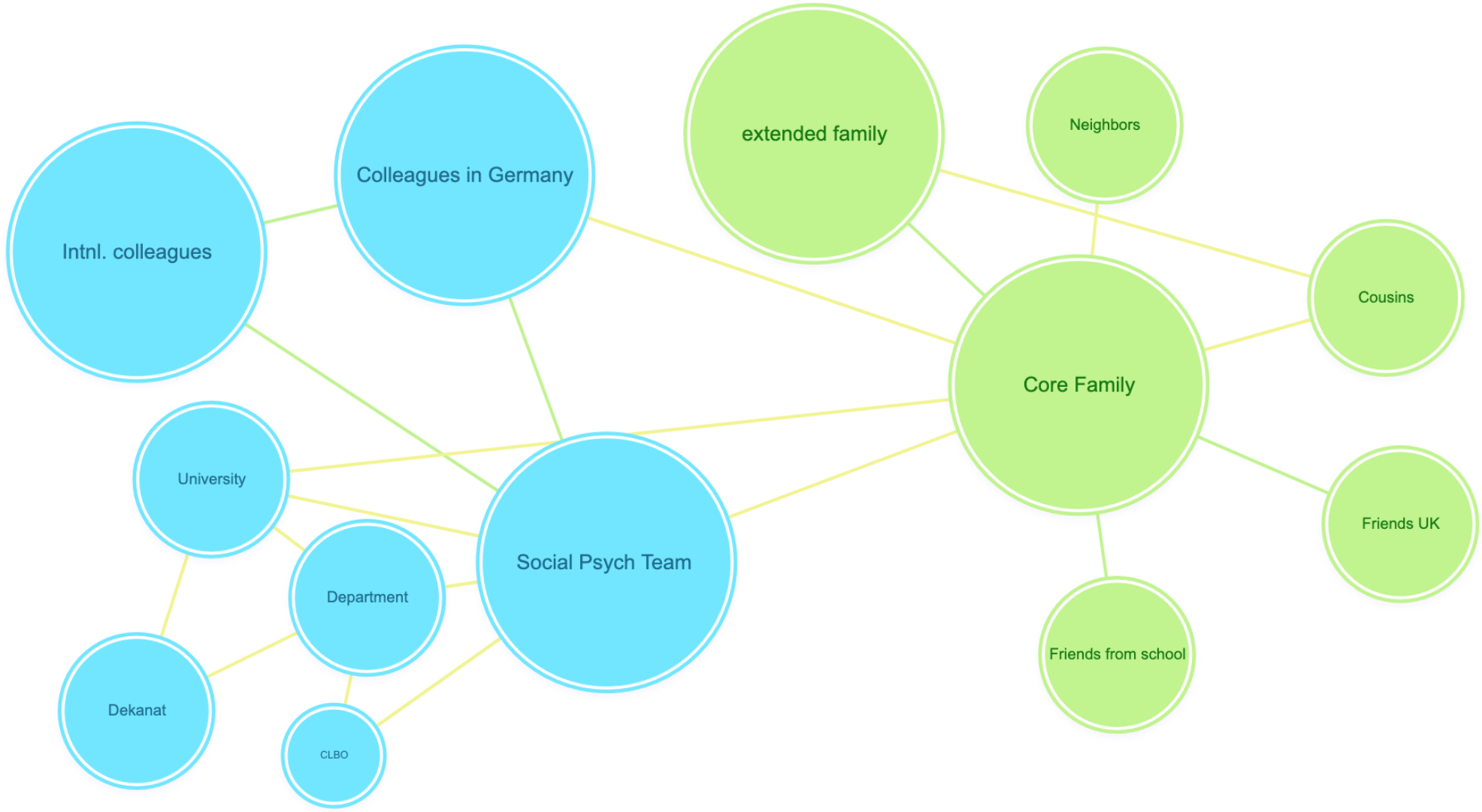
2. Scoping

- Developing social maps to identify existing connections and areas for social growth.

❖ Reflection review: How social groups can help with everyday challenges

Activity: Mapping your social world







Module contents

2. Scoping

- Developing social maps to identify existing connections and areas for social growth.

Create your own Social Identity Maps

- 1. Write down the names of your groups as a function of their importance using the different sized post-it notes.*
- 2. Rate how typical, or representative, you are of the group (1-10, Top L),*
- 3. Indicate how many days in the month you do things with each group (0-30, Top R)*
- 4. Rate how much support you receive from each group (1-10, Bottom R)*
- 5. Rate how positive you feel about being a member of the group (1-10, Bottom L)*



Module contents

2. Scoping

- Developing social maps to identify existing connections and areas for social growth.

Create your own Social Identity Maps

6. *Indicate with lines how easy it is to be a member of your groups at the same time.*

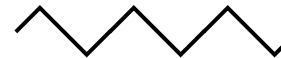
Easy to be in both groups



Moderately easy to be in both groups



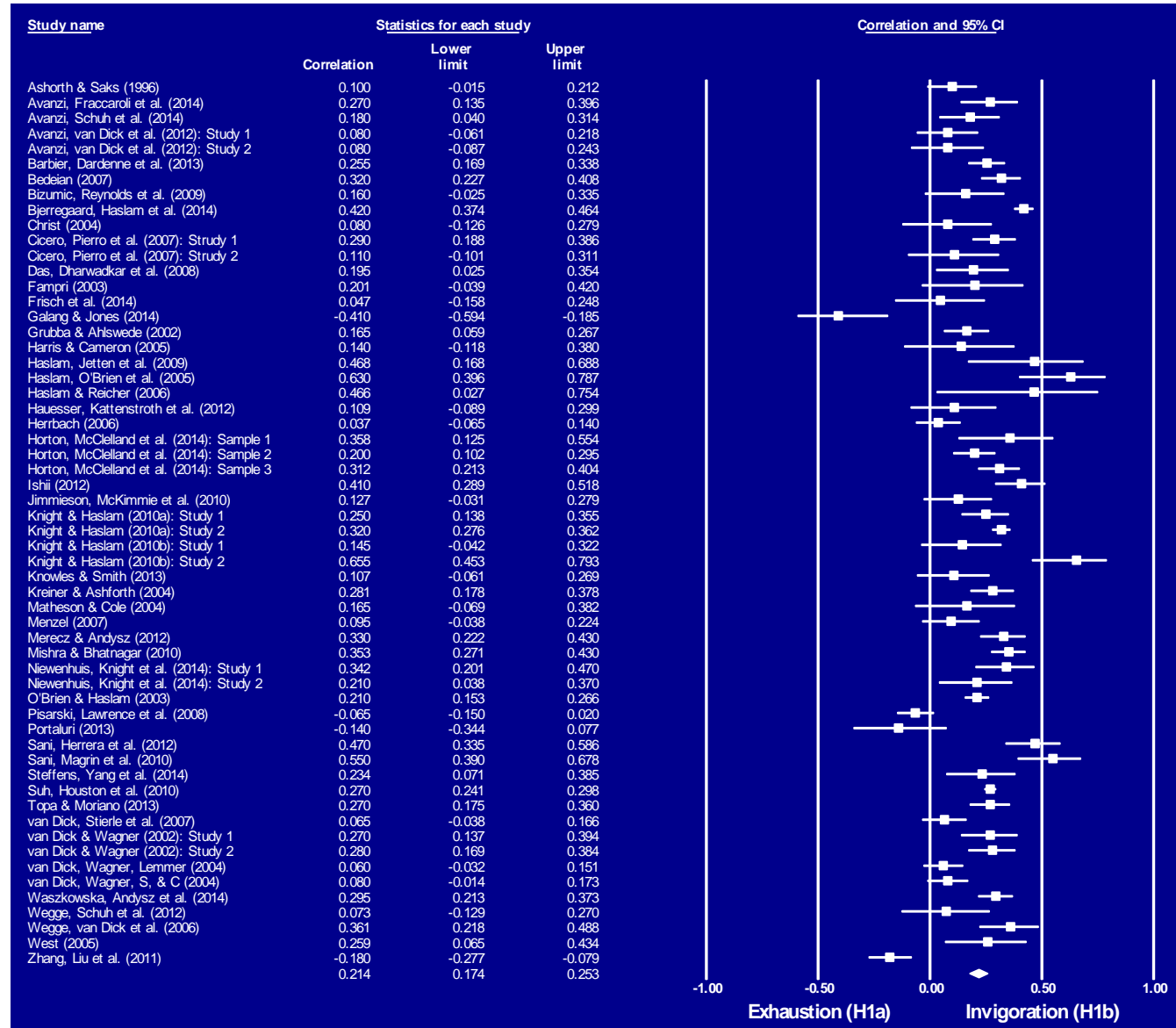
Difficult to be in both groups



Meta-analytical evidence

(Steffens, Schuh, Haslam, Jetten, & van Dick, 2017, PSPR)

- Organizational Identification – stress, health, well-being, burnout:
- 42 independent samples, 63 effect sizes, $N = 16.297$



Meta-analytical evidence

(Steffens, Schuh, Haslam, Jetten, & van Dick, 2017, PSPR)

- Organizational Identification – stress, health, well-being, burnout:
 - $r = .23$, 95%CIs: [.18, .27] - Fail safe N= 222

The more, the merrier?

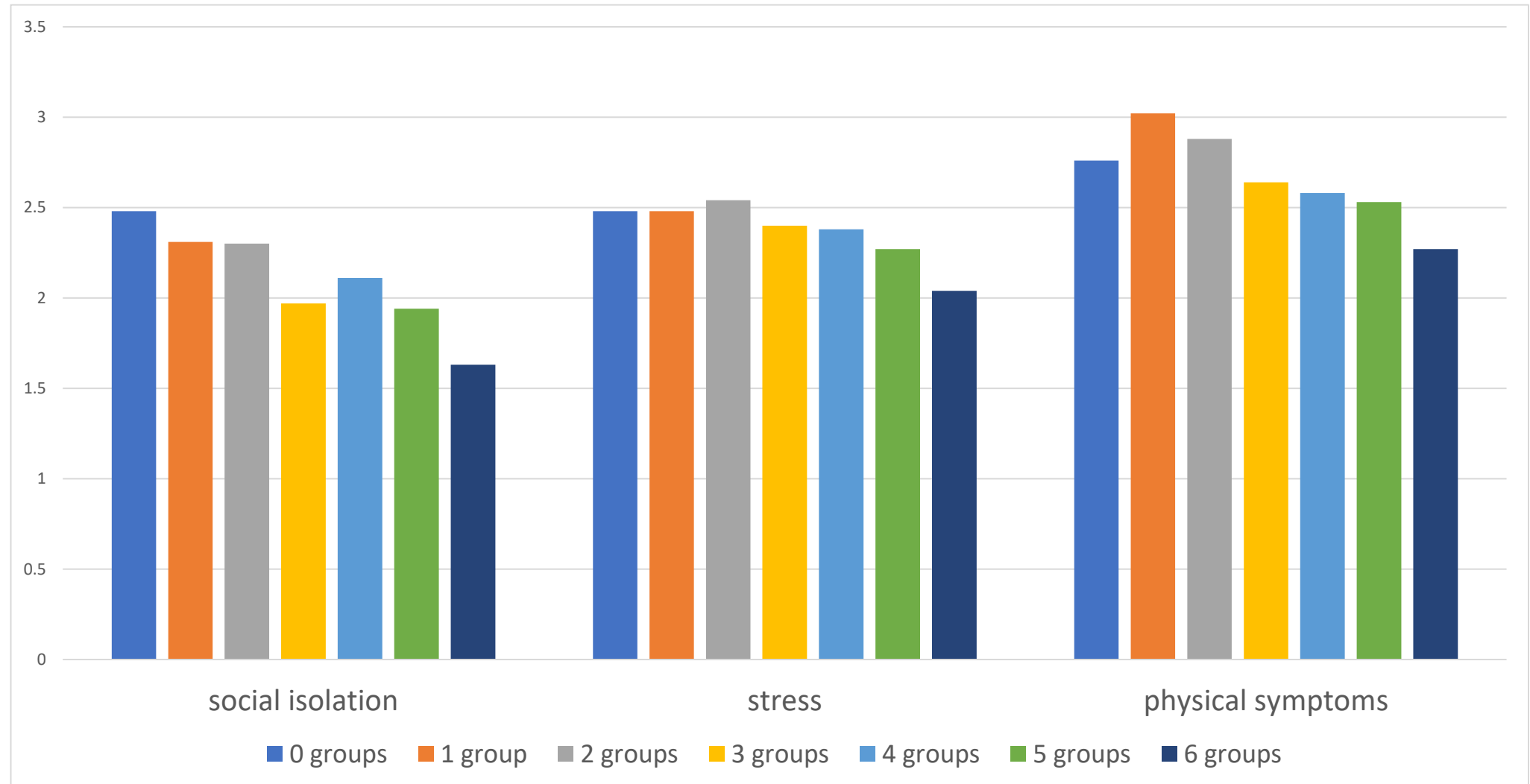
(van Dick, Junker, Erkens, Frenzel, Häusser, Mojzisch & Haslam, 2023, BJSP)

Representative surveys of the German population during the Coronacrisis (2021, two waves N=989) and the Russian war against Ukraine (2022, N=1635)

- Identification was measured with respect to one's
 - ...family
 - ...friends
 - ...neighborhood
 - ...people in your country
 - ...people in Europe
 - ...humanity

The more, the merrier!

(van Dick, Junker, Erkens, Frenzel, Häusser, Mojzisch & Haslam, 2023, BJSP)



Conclusions

- Considered together, these studies provide diverse and vivid evidence that social identity processes are central to the dynamics of well-being in social and organizational contexts.
- Shared social identity provides a basis for group members to give and receive social support and to derive feelings of collective accomplishment from working collectively to overcome and remove stressors.

Practical Conclusions

1. Know about your groups – they can be very important resources
2. Invest in your groups (e.g., have lunch with your colleagues, use non-mandatory opportunities such as sports events or Xmas-parties)
3. If you have (leadership) responsibility: Create opportunities for developing and living out shared identities



ROFLUDDOGE

THE NEW PSYCHOLOGY OF HEALTH

Unlocking the Social Cure

CATHERINE HASLAM | JOLANDA JETTEN
TEGAN CRUWYS | GENEVIEVE A. DINGLE
S. ALEXANDER HASLAM



GEMEINSCHAFT Was hilft uns, gesund zu bleiben? Sport und ausgewogene Ernährung? Sicher. Doch laut Psychologen ist ein anderer, lange vernachlässigter Faktor noch entscheidender: die Zugehörigkeit zu sozialen Gruppen.

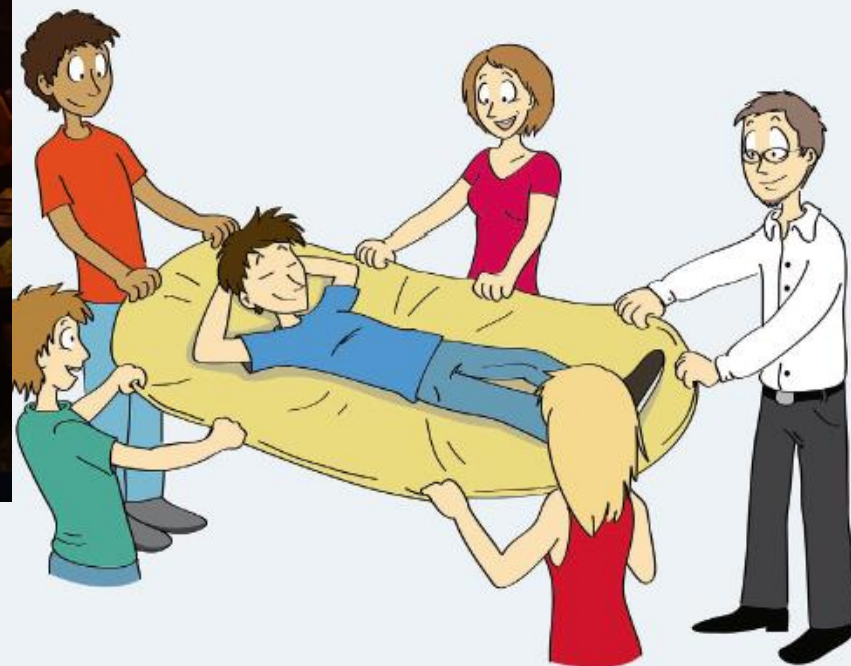
Die Heilkraft des Wir

VON CATHERINE HASLAM, NIKLAS K. STEFFENS UND ROLF VAN DICK

Stress lass nach!

Rolf van Dick

Wie Gruppen unser
Stresserleben beeinflussen



SACHBUCH



Springer Spektrum