

# IPS Research Update Annual IPS Meeting USA

May 2025

**Lars de Winter** 



# **Topics to discuss**

- General evidence base for IPS: Quick overview
- IPS for multiple target groups: extending the reach
- Additional interventions supporting IPS
- Cost-effectiveness
- Fidelity and quality of the IPS model: model adaptations versus quality standards
- Summing up and future directions





# **Quick overview: RCTs**

### **Disclaimers**

- Only focused on RCTs
- Comparing IPS (also in 'adapted' form) with any control group
- Studies investigated in multiple articles count as one
- Any target group is taken into consideration
- Outcome: only competitive employment rate

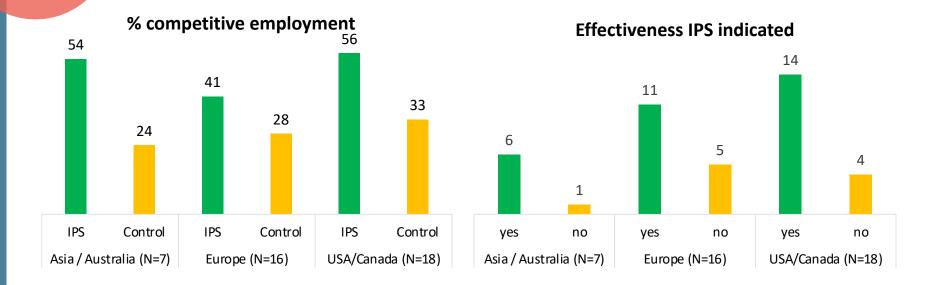
# 41 RCTs executed 4,954 Clients received IPS in studies 16 Different countries of publication 31 Studies found significant better outcomes in IPS compared with control group 46.9% Average employment rate IPS group in RCTs 14 Different target groups

investigated

**Overview** 

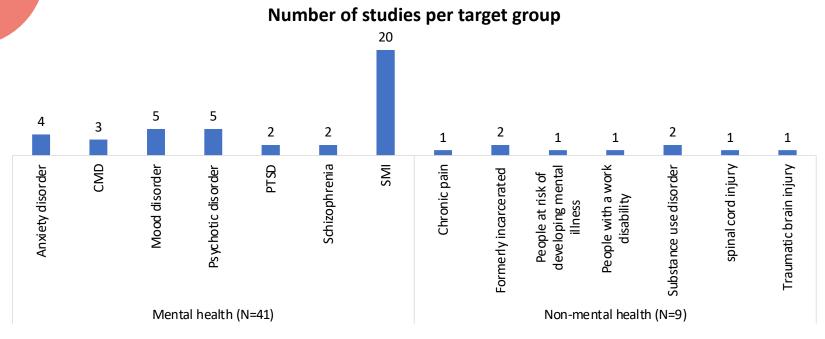


# Quick overview: RCTs per continent





# Quick overview: RCTs per target group





- Meta-analysis with 32 RCTs
- Only diagnosed mental health population
- Effectiveness for IPS in different target group based on:
  - Diagnosis
  - Clinical, functional and personal patient characteristics
- Outcomes:
  - Competitive employment rate
  - Job duration
  - Wages

Epidemiology and Psychiatric Sciences

cambridge.org/eps

### Original Article

Cite this article: de Winter L, Couwenbergh C, van Weeghel J, Sanches S, Michon H, Bond GR (2022). Who benefits from individual placement and support? A meta-analysis. Epidemiology and Psychiatric Sciences 31, e50, 1–24. https://doi.org/10.1017/ S2045796022000300

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### Key words:

Mental health; randomised controlled trials; rehabilitation; systematic reviews

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## Who benefits from individual placement and support? A meta-analysis

Lars de Winter<sup>1</sup> , Chrisje Couwenbergh<sup>1</sup>, Jaap van Weeghel<sup>1</sup>, Sarita Sanches<sup>1</sup>, Harry Michon<sup>2</sup> and Gary R. Bond<sup>3</sup>

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### Abstract

Aims. Individual placement and support (IPS) is an evidence-based service model to support people with mental disorders in obtaining and sustaining competitive employment. IPS is increasingly offered to a broad variety of service users. In this meta-analysis we analysed the relative effectiveness of IPS for different subgroups of service users both based on the diagnosis and defined by a range of clinical, functional and personal characteristics.

Methods. We included randomised controlled trials that evaluated IPS for service users diagnosed with any mental disorder. We examined effect sizes for the between group differences at follow-up for three outcome measures (employment rate, job duration and wages), controlling for methodological confounders (type of control group, follow-up duration and goggraphic region). Using sersitivity analyses of subgroup differences, we analysed moderating effects of the following diagnostic, clinical, functional and personal characteristics severe mental illness (SMI), common mental disorders (CMD), schizophenia spectrum disorders, mood disorders, duration of illness, the severity of symptoms, level of functioning, age, comorbid alcohol and substance use, education toleval and employment history.

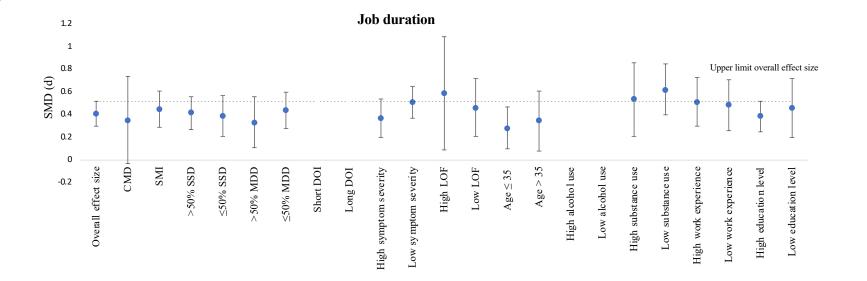
Results. IPS is effective in improving employment outcomes compared to the control group in all subgroups, regardless of any methodological confounder. However, IPS was relatively more effective for service users with SMIs, schizophrenia spectrum disorders and a low symptom severity. Although IPS was still effective for people with CMD and with major depressive disorder, at was relatively less effective for these subgroups. IPS was equally effective after both a short and a long follow-up period. However, we found small, but dirically not meaningful, differences in effectiveness of IPS between active and passive control groups. Finally, IPS was relatively less effective in European studies compared to non-European studies, which could be explained by a potential benefits trap in high welfare countries.

Conclusions. IPS is effective for all different subgroups, regardless of diagnostic, clinical, functional and personal characteristics. However, there might be a risk of false-positive subgroup outcomes and results should be handled with caution. Future research should focus on whether, and if so, how the IPS model should be adapted to better meet the vocational needs of people with CMD and higher symptoms severity.



### **IPS** for multiple target groups 10 **Employment rate** Odd's ratio Upper limit overall effect size High LOF >50% SSD ≤50% SSD >50% MDD <50% MDD Short DOI Low LOF Overall effect size CMDSMILong DOI Low education level Low symptom sevenity Age $\geq$ 75th perc Low alcohol use High substance use Low su bstance use High work experience Low work experience High education level High symptom severity High alcoholuse Age≤25th perc







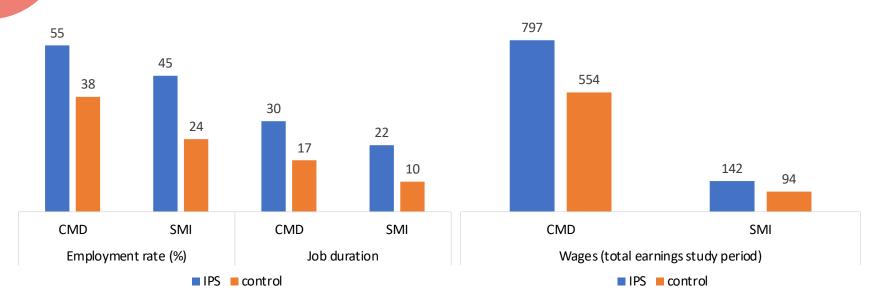




- IPS was more effective, regarding employment rate, for people with SMI and psychotic disorders than for people with CMD and depression.
- Other patient characteristics that profit more from IPS: low symptom severity, low level of substance use and low work experience
- European studies showed less indications of effectiveness compared to studies published in other continents. Most plausible explanation: benefits trap.



# **IPS** necessary for CMD?





# **IPS** for multiple target groups: non-mental **he**alth

- Systematic review for patients with no SMI
- Two main target groups with no mental health problems investigated:

Substance use disorder: 2 studies; both significant more favorable results for IPS

Employment rate: 46-50% IPS vs. 5-21% in control group.

Spinal cord injury: 1 study; significantly more favorable outcomes.

Employment rate 31% IPS vs. 11% control group

### **Expanding Individual Placement and Support to** Populations With Conditions and Disorders Other Than Serious Mental Illness

Gary R. Bond, Ph.D., Robert E. Drake, M.D., Ph.D., Jacqueline A. Pogue, M.A.

Objective: A systematic review of studies of individual place—people who had spinal cord injuries. In eight studies, results ment and support (IPS) for populations other than those with serious mental illness was conducted.

(PubMed, Web of Science, and Scopus) for studies of IPS and on symptom reduction and quality of life were inconsismodified IPS. Eligibility criteria for the systematic review included randomized controlled trials with prospective data veterans with posttraumatic stress disorder (PTSD). Methcollection on competitive employment rate and at least odological limitations included small samples, major modi-10 study participants from a well-defined population other fications to IPS fidelity, and short follow-up periods. than people with serious mental illness. Results were compiled for competitive employment rates, IPS fidelity, and Conclusions: IPS, often with modifications, is a promising

Results: Three clinical groups other than people with serious dence pertains to veterans with PTSD. IPS should be offered mental illness have been studied: people with psychiatric to these veterans. Research on other populations, including disorders other than serious mental illness, people with people with anxiety, depression, substance use disorder, substance use disorders, and people with musculoskeletal or musculoskeletal or neurological conditions, or pain synneurological disorders. Nine controlled trials with a total of dromes, needs development, amplification, and replication 2,902 participants included six trials with people who had psychiatric disorders other than serious mental illness, two

for competitive employment rates significantly favored IPS. Meta-analysis yielded an overall weighted odds ratio of 2.23 (95% confidence interval=1.53-3.24, p<.001). Findings for Methods: The authors searched three electronic databases other employment outcomes also favored IPS, but findings

> employment intervention for several populations in addition to people with serious mental illnesses. The strongest evi-

with people who had substance use disorders, and one with Psychiatric Services 2019; 70:488-498; doi: 10.1176/appi.ps.201800464



# **IPS** for multiple target groups: non-mental **he**alth

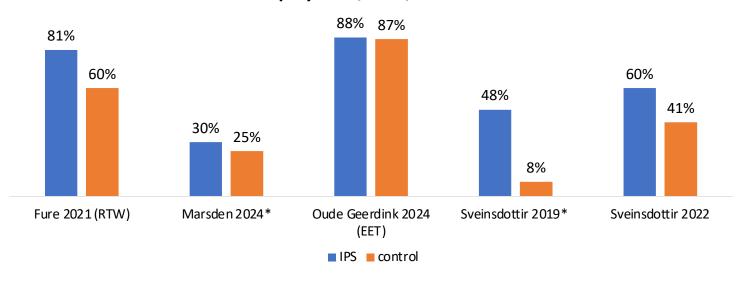
### Other, more recent RCTs not included in Bond 2019:

- Fure et al (2021): Traumatic brain injury
- Marsden et al (2024): substance use disorder
- Oude Geerdink et al (2024): People with work disabilities outside of mental health care
- Sveinsdottir et al (2022): Chronic pain
- Sveinsdottir et al (2019): People at risk of developing mental disorders



# IPS for multiple target groups: non-mental health

### **Employment/RTW/EET rates**





# IPS for multiple target groups: conclusions

- IPS has the biggest benefits for people with SMI in long-term mental healthcare
- People with more common mental disorders (e.g., anxiety, depression) in shorter mental healthcare also profit from IPS but biggest added values are in sustainability of work (e.g., salaries and job duration)
- For people with 'non-mental health' problems IPS is often provided in adapted forms and have mixed indications of effectiveness compared with other types of SE
- IPS has more added value for people who are clinically stable and a longer distance to the labor market



# **IPS** extended with additional interventions

- Why adding interventions to IPS?
  - Optimizing results in finding a new job
  - Additional support to help people sustain employment
- Types of additional interventions to be discussed:
  - Cognitive remediation
  - Work-focused CBT
  - Social skills training
  - Virtual Reality
  - Conceal or Reveal (CORAL)





# **Cognitive remediation**

- Cognitive deficits are a barrier for:
  - Finding and maintaining work (McGurk & Mueser, 2004)
  - Response to rehabilitation interventions (Tsang et al., 2010)
- Cognitive remediation provides a key solution for these barriers
- Cognitive remediation has different approaches, including combinations of:
  - Repetitive exercise (Drill & practice)
  - Cognitive compensatory strategies (strategy-based)
  - CR interventions provided integrated with psychiatric rehabilitation







# Cognitive remediation: evidence-base

- Multiple studies focused on CR + PR (IPS)
- Adding CR to IPS leads to better vocational functioning than while providing IPS alone
- Critical factors for succes:
  - Integrating repetitive exercise with strategy-based approaches (Drill & Strategy)
  - Integrating the goals of CR with IPS

The effect of rehabilitation combined with cognitive remediation on functioning in persons with severe mental illness: systematic review and meta-analysis

Daniëlle van Duin<sup>1, 2, 3</sup>, Lars de Winter<sup>1</sup>, Matthijs Oud<sup>2</sup>, Hans Kroon<sup>2, 3</sup>, Wim Veling<sup>4,5</sup> and Jaap van Weeghel<sup>1,3</sup>

<sup>1</sup>Phrenos Center of Experise, Utrecht, the Netherlands <sup>2</sup>Trimbos Institute, Utrecht, the Netherlands <sup>3</sup>Tiliburg School of Social and Behavioral Sciences, Tilburg, the Netherlands; <sup>3</sup>University of Groningen, Groningen, the Netherlands and <sup>3</sup>University Medical Center Groningen, Groningen, the Netherlands

Background. Psychiatric rehabilitation (PR) can improve functioning in people with severe mental illness (SMI), but outcomes are still suboptimal. Cognitive impairments have severe implications for functioning and might reduce the effects of PR. It has been demonstrated that performance in cognitive tests can be improved by cognitive remediation (CR). However, there is no consistent evidence that CR as a stand-alone intervention leads to improvements in real-life functioning. The present study investigated whether a combination of PR and CR anknown she affect of a stand-alone PR or CR instrumention on sewersed domains. of PR and CR enhances the effect of a stand-alone PR or CR intervention on separate domains

Method. A meta-analysis of randomized controlled trials of PR combined with CR in people with SMI was conducted, reporting on functioning outcomes. A multivariate meta-regres analysis was carried out to evaluate moderator effects.

Results. The meta-analysis included 23 studies with 1819 patients. Enhancing PR with CR had significant beneficial effects on vocational outcomes (e.g. employment rate: SMD = 0.41), and social skills (SMD = 0.24). No significant effects were found on relationships and omes of community functioning. Effects on vocational outcomes were moderated by

eneficial effects of

### Cognitive Training for Supported Employment: 2-3 Year **Outcomes of a Randomized Controlled Trial**

Article

Susan R. McGurk, Ph.D.

Kim T. Mueser, Ph.D.

Karin Feldman, M.A.

Rosemarie Wolfe, M.S. Alysia Pascaris, M.S., M.P.A. Objective: To address cognitive impairments that limit the effectiveness of supplyment with cognitive training program ported employment services for patients with schizophrenia, a cognitive training program, the Thinking Skills for Work Program, was developed and integrated into supported employment services.

Method: Patients with severe mental ill. ness (N=44) and prior histories of job failures who were enrolled in supported employment programs at two sites in New York City were randomly assigned to receive either supported employment alone or supported employment with cognitive training. Measures at baseline and 3 months included a brief cognitive and symptom assessment. Work outcomes were tracked for 2-3 years.

ployment with cognitive training program demonstrated significantly greater imfunctioning, depression, and autistic pre occupation. Over 2-3 years, patients in the supported employment with cogni tive training program were more likely to work, held more jobs, worked more weeks worked more hours and earned more wages than patients in the program offering supported employment alone.

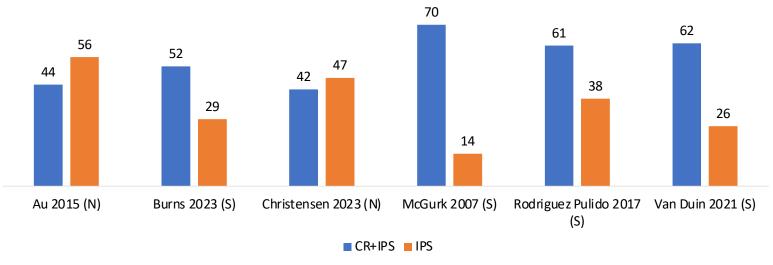
Conclusions: The findings support the feasibility of integrating cognitive rehabilgrams and suggest that more research is warranted to evaluate the effects of the Thinking Skills for Work Program.

(Am J Psychiatry 2007; 164:437-441



# Cognitive remediation: evidence-base

### **Employment rate CR+IPS studies**





# Work-focused cognitive-behavioral therapy

- Work-focused CBT approach:
  - Handling challenging situations on the workplace
  - Redefining unhelpful thoughts related to work
  - Coping with mental health problems at work
- □ Three studies (Lystad et al., 2018; Reme et al., 2015; Schneider et al., 2016)
- CBT+IPS had significantly better results in:
  - Maintaining work
  - Sustainable employment
- Biggest benefits for people with a long distance to the labour market



ORIGINAL ARTICLE

Work-focused cognitive—behavioural therapy and individual job support to increase work participation in common mental disorders: a randomised controlled multicentre trial

Silje Endresen Reme, <sup>1</sup> Astrid Louise Grasdal, <sup>2</sup> Camilla Løvvik, <sup>1,4</sup> Stein Atle Lie, <sup>1</sup> Simon Øverland<sup>3,4</sup>

➤ Additional material is published ordine only. To view please visit the journal online little/like visit the journal online (http://dx.doi.org/10.1136/osemed-2014-102700).
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Bergen, Norway

\*\*Correspondence to

Objectives Common mental disorders (CMOs) are a major cause of rising disability benefit experiences. We ungently need evidence on programmes that can increa work participation in CMDs. The aim of this study was to evaluate the effectiveness of work-focused cognitive behavious! thereopy (CSI) and individual job support is people struggling with work participation due to CMDs Methods. A nordomiced controlled militerative tripi (RCI) including 1193 participants was conducted. Participants were onsist leave, at risk of going on sick

leave or on long-term benefits. The intervention integrated work-focused CBT with individual job suppo The control group received usual care. The main outcome was objectively ascertained work participation at 12 months follow-up, with changes in mental health and health-related quality of life as secondary outcome

### .....

- Common mental disorders are a major cause or rising disability benefit expenditures.
   We arrestly need exidence on programmer.
- that can increase work participation in common mental disorders.

  ➤ An integrated model of work-focused continue above with the continue and the continue
- job support, emphasising early re-entry, was more effective than usual care in increasing maintaining work participation for people w common mental disorders.
- ► The effects were profound for people on



# Social skills training

- Work-related social skills training:
  - Improvement social skills on the work floor
  - Practical skills training in finding work as well (e.g., job interview training)
- Two studies (Christensen et al., 2019; Tsang et al., 2009)
- Tsang et al (2019), significant effectiveness of IPS+ SST in:
  - Employment rate
  - Job duration
- Christensen et al (2019): no significant differences compared with IPS as stand-alone intervention
- Mixed results of added value social skills training





# Virtual Reality

- IPS extended with Virtual Reality job interview training
- 1 RCT and 2 feasibility studies executed

### Results:

- IPS+VR group had no larger employment rate than the IPS only group
- IPS+VR group found competitive employment faster than IPS group

### An RCT of Virtual Reality Job Interview Training for Individuals With Serious Mental Illness in IPS **Supported Employment**

Matthew J. Smith, Ph.D., L.C.S.W., Justin D. Smith, Ph.D., Shannon Blajeski, Ph.D., M.S.W., Brittany Ross, M.A., Neil Jordan, Ph.D., Morris D. Bell, Ph.D., Susan R. McGurk, Ph.D., Kim T. Mueser, Ph.D., Jane K. Burke-Miller, Ph.D., Eugene A. Oulvey, Ph.D., Michael F. Fleming, M.D., M.P.H., Karley Nelson, M.A., Adrienne Brown, M.S., John Prestipino, B.S., Nicole J. Pashka, M.S., C.R.C., Lisa A. Razzano, Ph.D., C.P.R.P.

Methods: Ninety participants with serious mental illness were

higher employment rates, compared with IPS-as-usual participants (43% versus 28%). IPS nonresponders (N=46) in the Psychiatric Senices 2022; 73:1027-1038; doi: 10.1176/appi.ps.202100516

Objective: Virtual Reality Job Interview Training (NR-JIT) is a computerized interview simulator with efficacy at enhancing interview skills and employment outcomes. A randomized controlled trial assessed NR-JIT effectiveness for participants in individual placement and support (IPS), in which approximately 55% of individuals with serious mental illness obtain employment.

In the control of th

Methods: Ninet yarticipants with arious mental iliness were randomly assigned to IPS+VR: (M=54) or IPS a usual N=58, completing pretest-postets assess the rest of no employment within the first 90 days of IPS). Interview training with their specialist. Further research should focus on evaluating the effectiveness and implementation of VR-Bastlist. IPS+VR-JIT participants did not have significantly VR-JIT among IPS nonreponders.



# Conceal or Reveal (CORAL)

- Conceal or Reveal (CORAL)
  - Decision-aid that support people with mental illness in how to disclose about their mental illness to employers
- Developed in the UK (Henderson et al., 2013)
- 1 RCT in the Netherlands (Janssens et al (2024):
  - CORAL+SE vs SE
  - Significant better employment rate outcomes
  - Significant better outcomes in retaining employment

# Effectiveness of a Stigma Awareness Intervention on Reemployment of People with Mental Health Issues/Mental Illness: A Cluster Randomised Controlled Trial

K. M. E. Janssens¹ · M. C. W. Joosen¹ · C. Henderson² · M. Bakker³ · W. den Hollander⁴ · J. van Weeghel¹.5 · E. P. M. Brouwers¹

Accepted: 21 June 2023 / Published online: 13 July 2023 © The Author(s) 2023

### Abstract

Purpose A barrier for reemployment of people with mental health issues/mental illness (MHI) is workplace stigma and discrimination. In this RCT the effectiveness of a stigma-awareness intervention addressing finding work, retaining work and decisional stress were evaluated.

Methods A cluster RCT was conducted in 8 Dutch municipal practices. Randomisation took place at practice level. Participants were unemployed people with MHI, receiving social benefits. The intervention consisted of a decision aid for work-place disclosure for participants and a  $2 \times 3$  h stigma-awareness training for their employment specialists. Primary outcomes were measured at baseline, 3-, 6- and 12-months. Multilevel analyses, containing random intercepts of participants nested in organizations, were conducted to analyse the effects of the intervention.

Results Participants (N = 153) were randomized to an experimental (n = 76) or control group (n = 77). At six months, significantly more participants of the experimental group (51%) had found work compared to the control group (26%). At twelve months, significantly more participants of the experimental group (49%) had retained work compared to the control group (23%). Intention-to-treat analyses showed that randomization to the experimental group was associated with finding (O(R(95%CI) = 7.78(1.33-45.53), p = 0.02) and retaining (O(R(95%CI) = 12.15(2.81-52.63), p < 0.01) work more often at twelve months. Analyses showed that the experimental and control group did not differ in decisional stress.

Conclusions Our stigma awareness intervention was effective for finding and retaining work. As the percentage of people who found and retained work almost doubled, this suggests that on a societal level, a vast number of unemployed people could be reemployed with a relatively simple intervention.

Trial Registration The study was retrospectively registered at the Dutch Trial Register (TRN: NL7798, date: 04-06-2019).

 $\textbf{Keywords} \ \ \text{Mental health issues} \cdot \text{Mental illness} \cdot \text{Stigma} \cdot \text{Discrimination} \cdot \text{Employment rates}$ 



# Conclusions adding additional intervention

- Cognitive remediation most elaborately investigated
- In most studies beneficial effects of CR are indicated when integrated well with goals IPS
- Work-focused CBT interventions beneficial, mostly for people with long distance to labour market
- Virtual reality and social skills training showed no consistent beneficial effects in combination with IPS for finding or maintaining competitive employment
- CORAL is not broadly investigated but showed some first hopeful indications of added value



# **Cost-effectiveness**

- Cost-effectiveness: balance between costs of the intervention and both financial and societal gains as a consequence of the intervention on the long run
- What are the societal gains of IPS regarding:
  - Healthcare costs
  - Social benefits costs
  - Health, quality of life and vocational functioning of service users
- Insights are very important for national policy makers and for structural funding for IPS in the future



## **Cost-effectiveness**

- Two main cost-effectiveness overviews:
  - □ Bond (2023) → worldwide
  - □ Knapp et al (2013) → EQOLISE Europe

### **Summary:**

- 10 studies in total considered
- 6 studies showed less costs of IPS, 2 equal costs and 2 more costs than control group
- All studies: better employment outcomes
- In Europe: lower healthcare and social benefits cost in 5 out of 6 countries (only not for the Netherlands)

### ISSUE BRIEF

# Cost-Effectiveness of Individual Placement and Support\*



Gary R. Bond August 2023

### **Key Points**

- Policymakers, program administrators, service providers, and many others are interested in the costs and benefits of Individual Placement and Support (IPS), an evidence-based model of supported employment that improves competitive integrated employment (CIE) for people with mental health conditions.
- The central question is whether the benefits of IPS are worth its costs. The most useful cost studies compare the costs and benefits of IPS to an

two studies, <sup>3,9</sup> and greater in two studies, <sup>3,2</sup> All ten of the economic analyses showed significantly better employment outcomes for IPS than the comparison group.

• The economic analyses reviewed were primarily short-term studies of 12 to 18 months in duration. Long-term studies (that is, studies with follow-up periods of five years or more) suggest that the benefits of IPS persist and even increase over time.<sup>8,551</sup> Therefore, the long-term benefits from IPS may exceed those found in the existing costeffectivenese, studies.

### RESEARCH REPORT

### Supported employment: cost-effectiveness across six European sites

MARTIN KNAPP<sup>1-2</sup>, ANITA PATEI<sup>2</sup>, CLAIRE CUBRAN<sup>1</sup>, EBIC LATIMER<sup>3</sup>, JOCELYN CATTY<sup>4</sup>, THOMAS BECKER<sup>5</sup>, ROBER E. DRAKE<sup>6</sup>, ANGELO FIORITI<sup>7</sup>, RENHOLD KILLAN<sup>2</sup>, CHRISTOPH LAUBER<sup>8</sup>, WLUE RÖSSLER<sup>9</sup>, TOMA TOMOV<sup>10</sup>, JOOSEE VAN BUSSCHBACH<sup>11</sup>, ADELINA COMAS-HERRERA<sup>1</sup>, SARAH WHITE<sup>4</sup>, DURK WIRSSNA<sup>1</sup>, TOMB BURNS<sup>2</sup>:

Fernandi Social Services Beasersh Unit, London School of Rosomics and Philical Science, Houghton Street, London WCA, 26E, UK; "Center for the E-monits of Mental and Psychola Habil, Bings, College London, Institute of Psychatry, De Coupley Psych. London, St. 284; US: Division of Section and Tran cultural Psychiatry, Mourtes Quebec, 1833. IAI Canada, "Bisions of Mental Health, St. George's University of London, London, UK. "Division of Section and Trans (Line London, London, UK. "Division of Section and Trans (Line London, London, UK. "Division and Section and UK. "Line London, London, UK. "Division of Section and UK. "Line London, UK. "Division and Section and UK. "Line London, UK. "Division and Section and UK. "Line London, UK. "Division and Section and UK. "Line London, UK. "Line London, UK. "Division and UK. "Line London, U

A high proportion of geospic with severe mental health problems are unemployed but would like to work. Individual Placement and Signature (1975) often a genomina agreease to enablething people in paid implicipment for a reinformation convoided mixture areas its European countrie (1975) often a genominate question of the control of the

Key words: Supported employment, cost-effectiveness, severe mental illness, economics, wo

(World Psychiatry 2013;12:60-68)



# **Cost-effectiveness**

Costs of IPS are mostly lower and outcomes are better than control group

### However:

- Healthcare costs are mostly higher in IPS than in control group
- Benefits regarding social benefits mostly clearly visible on the longer run

### Therefore:

- Quality of the model also comes with a price
- Studies with more long-term outcomes are necessary to investigate the cost-benefits of IPS on the long run



- Fidelity is a critical element of the success of IPS
- Higher fidelity scores are associated with:
  - Better program-level employment rates (Bond et al., 2012; De Winter et al., 2020; Locket et al., 2016; Kim et al., 2015)
  - Employment duration and better disclosure about mental health problems (Yamaguchi et al., 2022)
- Also 'predictive fidelity' established:
  - Programs that improve in fidelity, also improve in programlevel outcomes
  - Regardless of the fidelity score

Social Psychiatry and Psychiatric Epidemiology (2020) 55:1607-1617 https://doi.org/10.1007/s00127-020-01890-0



### Fidelity and IPS: does quality of implementation predict vocational outcomes over time for organizations treating persons with severe mental illness in the Netherlands?

Lars de Winter<sup>1</sup> · Christianne Couwenbergh<sup>1</sup> · Jaap van Weeghel<sup>1</sup> · Cris Bergmans<sup>1</sup> · Gary R. Bond<sup>2</sup>

Purpose Individual placement and support (IPS) is an evidence-based supported employment intervention. Quality of IPS implementation is assessed using a validated fidelity scale. Previous studies found a positive association between fidelity and employment outcomes at a single time-point. This study examines the longitudinal association between IPS fidelity of the property of the

Methods We examined fidelity and employment outcome data for 27 IPS programs in the Netherlands providing IPS. These programs received at least one fidelity assessment and reported quarterly employment outcomes for at least one year to a central registry between 2014 and 2019. We first examined changes over time for fidelity and employment outcome. Then we analyzed the longitudinal associations between the quarterly employment outcomes and the IPS fidelity assessments on

waipf cities received in the control of the control IPS-fidelity and employment.

Conclusions Improvement of fidelity is associated with improvement of employment outcomes over time. Future research should be focused on the improvement of specific elements of IPS implementation and their influence on employment

Predictive Association of Low- and High-Fidelity Supported Employment Programs with Multiple Outcomes in a Real-World Setting: A Prospective Longitudinal Multi-site Study

Sosei Yamaguchi 10 - Savaka Sato 1 - Takuma Shiozawa 1 - Asami Matsunaga 1 - Yasutaka Olio 1 - Chiyo Fulii

Accepted: 19 August 2021 / Published online: 2 September 2021 © The Author(s) 2021

Purpose The individual placement and support (IPS) model of supported employment is a leading evidence-based practice in community mental health services. In Japan, individualized supported employment that is highly informed by the philosophy of the IPS model has been implemented. While there is a body of evidence demonstrating the association between program

of the IPS model has been implemented. While there is a body of evidence demonstrating the association between program in delicity and the proprietion of participants, unlike a proprietion of participants and a wider set of vocational and individual outcomes has received immedi investigation. This study aimed to assess whether high-fieldity individualized supported employment gongrams were supported to embedded programs in terms of vocational outcomes, preferred job acquasition, used patient-reported outcomes measures (PROMS).

Methods: A prospective displayment power with the programs were supported employment programs. The Japanese version of the individualized Supported Employment Fieldity scale (File) was need to assess arxivating quality to approted employment programs. The Japanese version of the individualized Supported Employment Fieldity scale (File) was need to assess arxivating quality to approted employment programs. (SO high-field) was need to assess arxivating quality to approte employment programs (cores: Do-helding Fire) fields (so also programs, 20%). Independent programs, 20% to the programs, 20% to the program (cores: Do-helding Fire) and the programs (cores: Do-heldin

PROMs such as the INSPIRE and WHO-Five Well-being index were compared between groups. Results Three were 75 and 127 participants in the low-fielding young (s. 6) and high fielding young (s. 10), respectively. The high fielding group demonstrated better vocational outcomes than the low-fideling group, i.e., higher competitive is caugatiants (17.1% errors 38.7%, respectively, adjusted ods), into 10(8) a 3.6, p. o2002), larger work termer (adjusted mean difference = 160.8, p. 0.000), and better much for filmes disclosure perference 02.5% versus 68.0%, respectively, 60.0% e. 5.5, p. 0.000). However, we found to officences between groups in other perfectore matches or fffood nationness, 60.0% e. 5.5, p. 0.000). However, we found no officences between groups in other perfectore matches or fffood nationness. 60.0% e. 5.5, p. 0.000.) However, we found no officences between groups in other perfectore matches or fffood nationness. 60.0% e. 5.5, p. 0.000. However, we found no officences between groups in other perfectore matches or fffood nationness. 60.0% e. 5.5, p. 0.000. However, we found no officences between groups in other perfectore matches or fffood nationness. 60.0% e. 5.5, p. 0.000. However, we found not officences between groups in other perfectore matches or fffood nationness. 60.0% e. 5.5, p. 0.000. However, we found not officences between groups in other perfectors and the officences of the control of the control of the officences of the control of the control of the officences of the control of the control of the officences of the control of the officences of the officences of the control of the officences o

### Clinical Trial Registration UMIN000025648

Keywords Evidence-based practices - Fidelity - Individual placement and support - Job preference - Patient-reported



Fidelity also has some criticism:

- Discussion between formative and summative use of fidelity
- Formative: Adapting implementation to the practical reality
- Summative: Adapting practice to the model standards
- Two developments are currently central:

### 1. Self-reported fidelity

First studies (Waghorn et al., 2019; Yamaguchi et al., 2024)
 showed some indications of validity of this approach

### 2. Model adaptations to new target groups

Fitting IPS to setting and context new target groups

### Fidelity Scale: From Black Box to Holy Grail

Published online: 4 June 2020 © The Author(s) 2020

### Abstract

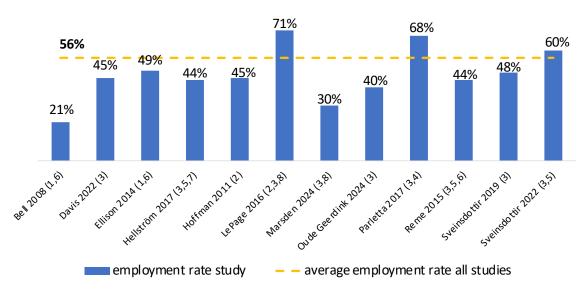
Fidelity scales are indispensable in the pursuit of evidence-based mental healthcare. Without fidelity checks, treatment remains a mysterious black box. The aim of this article is to comment on the studies in this special section, and to discuss some general issues with regard to fidelity assessment. Despite all of their supposed benefits, resistance to fidelity scales persists among mental health practitioners. One way to overcome this resistance is to conduct fidelity assessments in the context of a well-guided learning community. The predictive validity of fidelity scales is considered the single most valuable attribute of these instruments. Research on predictive validity requires large sample sizes, which is difficult to achieve. It should nevertheless not prevent us from rigorously searching for this Holy Grail of fidelity assessment. In addition, fidelity assessment should be placed in a broader perspective. The quality of care for people with severe mental illness cannot be assessed conclusively according to the extent to which separate interventions have been applied with good fidelity. These didividuals need access to high-quality treatment and support systems within the community, which can enable them to live their lives as valued citizens. In conclusion, fidelity assessment, both at the level of interventions and systems, contributes to a highly desirable transparency in practice variations within the field of mental healthcare.



One size does not fit all!



### **Results studies with IPS adaptations**



### **Model adaptations**

- 1. Goal of competitive employment
- 2. Zero exclusion
- 3. Integrated services
- 4. Worker preferences
- 5. Benefits planning
- 6. Rapid job search
- 7. Systematic job development
- 8. Time-unlimited support



### **Conclusions and remarks**

- Balance between reach and quality is very important for the future of IPS
- Cautions about model adaptations IPS:
  - IPS is developed for mental healthcare population
  - Adaptations might blur the principles and implementation for all service users
  - Adapt IPS to new populations vs. development of new SE interventions
  - When do we still call and brand it as IPS?
- Fidelity: paradigm shift from scoring to more flexible learning and development
- International discussion about these topics are critical!



# Future directions: international research network

- Conclusion: impressive developments in IPS-research!
- Better translation research to practice:
  - Increase communication and accessibility
  - Tighter collaboration with clients, lived experience, practitioners and policy makers
- Developments fidelity and quality improvement
- Improve accessibility IPS for all people in mental healthcare
- Give better insights for what target groups and in what setting IPS is suitable:
  - Development of quality standards for programs
  - Use IPS principles for development high-quality SE new populations
  - Support implementation of IPS in new cultures
- Use of modern technology and AI in IPS





# Final remark











# **Further questions?**

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