Slide 1: Title Slide: Evidence for IPS

Slide 2: Few people with serious mental illness work

(Hakulinen et al., 2019)

Slide 3: Why focus on work

(Bond & Drake, 2014)

Slide 4: Impact of competitive employment on mental health and well being in general population

(Modini, Joyce, et al., 2016)

Other reviews and research studies: (Blustein, 2008; Butterworth et al., 2015; Waddell & Burton, 2006)

Slide 5: Impact of competitive employment on mental health and well being for people with serious mental illness

(Luciano, Bond, & Drake, 2014). See also: (Bouwmans, Sonneville, Mulder, & Hakkaart-van Roijen, 2015; Charzyńska, Kucharska, & Mortimer, 2015; van Rijn, Carlier, Schuring, & Burdorf, 2016).

Slide 6: Impact of employment on mental health outcomes and service costs

(Gibbons & Salkever, 2019)

Slide 7: Need for employment services

Interest in employment: (Bedell, Draving, Parrish, Gervey, & Guastadisegni, 1998; Drebing et al., 2004; Frounfelker, Wilkniss, Bond, Devitt, & Drake, 2011; Knaeps, Neyens, van Weeghel, & Van Audenhove, 2015; Livermore & Bardos, 2017; McQuilken et al., 2003; Mueser, Salyers, & Mueser, 2001; Ramsay et al., 2011; Rogers, Walsh, Masotta, & Danley, 1991; Westcott, Waghorn, McLean, Statham, & Mowry, 2015; Woltmann, 2009)

<20% employed: (Lindamer et al., 2003; Pandiani & Leno, 2012; Perkins & Rinaldi, 2002; Rosenheck et al., 2006; Salkever et al., 2007)

Only 2% have access: (Bruns et al., 2016; Twamley, Baker, Norman, Lohr, & Resnick, 2013).

Slides 8: Four Trends
Slide 9: Trend 1: Expanding evidence base

Slide 10: Day treatment conversion studies

*Convert day treatment to IPS:* (Bailey, Ricketts, Becker, Xie, & Drake, 1998; Becker et al., 2001; Drake et al., 1994; Drake, Becker, Biesanz, Wyzik, & Torrey, 1996; M. Gold & Marrone, 1998)

*Convert sheltered workshop to IPS:* (Oldman, Thomson, Calsaferri, Luke, & Bond, 2005)

Slide 11: Employment outcomes in day treatment conversion studies

(Bond, 2004)

Slide 12: Other outcomes in day treatment conversion studies

(Clark, 1998; Torrey, Becker, & Drake, 1995)

Slide 13: Randomized controlled trials of IPS

For list of studies: (Brinchmann et al., 2020; Drake, Bond, Goldman, Hogan, & Karakus, 2016)

Slide 14: Study characteristics of 28 randomized control trials of IPS

(Bejerholm, Areberg, Hofgren, Sandlund, & Rinaldi, 2015; Bond, Kim, et al., 2015; Bond, Salyers, et al., 2007; Burns et al., 2007; Davis et al., 2018; Davis et al., 2012; Drake et al., 2013; Drake et al., 1999; Drake, McHugo, Becker, Anthony, & Clark, 1996; Erickson, Roes, Digiacomo, & Burns, 2020; P. B. Gold et al., 2006; Heslin et al., 2011; Hoffmann, Jäckel, Glauser, Mueser, & Kupper, 2014; Killackey et al., 2019; Killackey, Jackson, & McGorry, 2008; Latimer et al., 2006; Lehman et al., 2002; Michon et al., 2014; Mueser et al., 2004; Nuechterlein et al., 2020; Oshima, Sono, Bond, Nishio, & Ito, 2014; Tsang, Chan, Wong, & Liberman, 2009; Twamley et al., 2012; Viering et al., 2015; Waghorn, Dias, Gladman, Harris, & Saha, 2014; Wong et al., 2008; Zhang et al., 2017)

Slide 15: Summary statistics for RCTs of IPS

Compiled for this powerpoint.

Slide 16: Graph of 28 RCTs

Graph compiled for this powerpoint.

Slide 17: Overall findings for 28 RCTs
Slides 18-19: Other employment outcomes for IPS

(Bond, Drake, & Becker, 2020; Bond, Campbell, & Drake, 2012)

Slide 20: Job tenure for IPS jobs

(Bond & Kukla, 2011; Hoffmann et al., 2014)

Slide 21: Long-term outcomes (% steady workers) in three IPS studies

(Becker, Whitley, Bailey, & Drake, 2007; Hoffmann et al., 2014; Salyers, Becker, Drake, Torrey, & Wyzik, 2004)

Slides 22-23: Long-term outcomes from Mental Health Treatment Study

(Baller et al., 2020)

Slide 24: IPS effective in diverse locations

Slide 25: IPS fidelity and employment outcomes similar in urban and rural communities

(Haslett, Bond, Drake, Becker, & McHugo, 2011; Luciano, Bond, Becker, & Drake, 2014)

Slide 26: IPS RCTs by continent

(Drake, Becker, & Bond, 2019)

Slide 27: Why lower employment rates in Europe?

(Brinchmann et al., 2020; Burns et al., 2007; Metcalfe, Drake, & Bond, 2018)

Slide 28: Systematic reviews of IPS

(Bond, Drake, & Becker, 2012; Brinchmann et al., 2020; Frederick & VanderWeele, 2019; Kinoshita et al., 2013; Marshall et al., 2014; Metcalfe, Drake, & Bond, 2018; Modini et al., 2016; Suijkerbuijk et al., 2017)

Slide 29: Cost-effectiveness of IPS

Summarized for this powerpoint
Slide 30: Return on investment
(Hoffmann et al., 2014)

Slide 31: Does IPS have a direct impact on mental health and well being?
(Kukla & Bond, 2013)

Slide 32: IPS improves interpersonal relationships among veterans with PTSD
(Mueller et al., 2019)

Slide 33: Target subgroups served by IPS

*People with justice involvement:*
(Bond, Kim et al., 2015; LePage et al., 2016; LePage et al., 2020)

*People receiving disability benefits:*
(Bond, Xie, & Drake, 2007; Drake et al., 2013; Sveinsdottir et al., 2016; Viering et al., 2015)

*People with mental illness and substance use disorder*
(Harrison, Krieger, & Johnson, 2019; Mueser, Campbell, & Drake, 2011)

Slide 34: IPS effective across many subgroups
(Campbell, Bond, & Drake, 2011; Campbell, Bond, Drake, McHugo, & Xie, 2010)

Slide 35: Recent focus on employment services for young adults
WIOA (Mann & Croake, 2018)
Foster care (Ellison et al., 2015)
Coordinated specialty care for first episode of psychosis (Azrin, Goldstein, & Heinssen, 2015)

Slide 36: Goals of young adults with first episode of psychosis
(de Waal, Dixon, & Humensky, 2018)

Slide 37: IPS in coordinated specialty care programs for first episode of psychosis
(Bond, Drake, & Luciano, 2015)
Slides 38: IPS for young adults (under 30) enrolled in 4 RCTs

(Bond, Drake, & Campbell, 2016)

Slide 39: International focus on young adults not in employment, education, and training

(Arulampalam, Gregg, & Gregory, 2001; Kaye, Jans, & Jones, 2011; Mawn et al., 2017; O'Dea et al., 2014; Ralston, Feng, Everington, & Dibben, 2016; Scott et al., 2013)

Slide 40: Norwegian SEED study of IPS for young adults at risk for entering disability system

(Sveinsdottir et al., 2020)

Slide 41: Trend 3: Expanding IPS to new populations

(Bond, Drake, & Pogue, 2019, 2020)

Recent TANF study: (Chandler, 2020)

Slide 42: 9 RCTs of IPS in new populations

9 RCTs: (Bejerholm, Larsson, & Johanson, 2017; Davis et al., 2018; Davis et al., 2012; Hellström et al., 2017; LePage et al., 2016; Lones et al., 2017; Ottomanelli, Barnett, & Goetz, 2014; Reme, Grasdal, Løvvik, Lie, & Øverland, 2015; Reme et al., 2019)

Slide 43: Trend 4: Strategies to disseminate, implement, sustain, and expand IPS

(Becker, Baker, et al., 2007; Becker, Drake, & Bond, 2014; Becker et al., 2011; Becker, Lynde, & Swanson, 2008; Bond, Drake, Becker, & Noel, 2016b; Bond, McHugo, Becker, Rapp, & Whitley, 2008; Cohen & Becker, 2014; Drake, Becker, Goldman, & Martinez, 2006; Swanson et al., 2011; Swarbrick et al., 2017)

Slides 44: IPS Learning Community

(Drake, Becker, & Bond, 2020)

Slides 45: Map of IPS Learning Community states and nations

https://ipsworks.org
Slide 46: Growth of IPS Teams in US
Compiled from IPS Employment Center data base

Slide 47: IPS Learning Community employment outcomes

https://ipsworks.org

Slide 48: Benchmark for good quarterly competitive employment outcome

(Drake, Bond, & Becker, 2012)

Slide 49: IPS fidelity

(Becker, Swanson, Reese, Bond, & McLeman, 2015; Bond, Becker, & Drake, 2011; Bond, Peterson, Becker, & Drake, 2012)

Slide 50: Sustaining IPS services over time

(Bond, Drake, Becker, & Noel, 2016a)

Slide 51: IPS Learning Community infrastructure, fidelity, and outcomes

(Bond, Drake, et al., 2016a)

Slide 52: Spread of IPS in US

(Johnson-Kwochka, Bond, Drake, Becker, & Greene, 2017; Pogue, Al-Abdulmunem, & Bond, 2020)

Slide 53-54: International spread

(Becker & Bond, 2020; Drake, 2020)

IPS programs outside US: (Knutzen, 2020)

Slide 55: VR experts rate IPS as highly relevant and highly evidence-based

(Leahy et al., 2018)

Slide 56: Overall conclusions
References


Evidence for IPS PowerPoint: Reference List (5/29/20)

schizophrenia, bipolar disorder, or major depression in returning to work. *American Journal of Psychiatry, 170*, 1433-1441.


Knutzen, T. (2020). Number of IPS programs in 12 countries outside US as of May 11, 2020 (personal communication).


Latimer, E., Lecomte, T., Becker, D., Drake, R., Duclos, I., Piat, M., ... Xie, H. (2006). Generalisability of the individual placement and support model of supported
Evidence for IPS PowerPoint: Reference List (5/29/20)


A systematic review and meta-analysis of re-engagement interventions. *Systematic Reviews, 6*(1), 16.


Woltmann, E. (2009). *Development and evaluation of a consumer-directed decision support system to support shared decision making in community mental health.* (dissertation), Dartmouth, Hanover, NH.
