


VAADA
2019

JACK OF ALL TRADES
MASTER OF ONE


Enhancing mastery across mental, physical and substance use domains

Amanda Baker PhD



OVERVIEW

- PREVALENCE
- TREATMENT SERVICE SILOS
- HEALTHY LIFESTYLES
- RECOMMENDATIONS FOR PRACTICE



2

Comorbid 12m mental disorder class	Affective	Anxiety	Substance	Total population
Affective	-	25.4	21.4	6.2
Anxiety	58.5	-	33.5	14.4
Substance	17.6	11.9	-	5.1

% WITH A COMORBID MENTAL DISORDER
N=8841
(NSMHWB, Teesson et al, 2009)

3

PSYCHOSIS
N=1825
(Morgan et al, ANZJP, 2012)

Substance	%
Any illicit drug abuse or dependence (lifetime)	63% men 42% women
Cannabis use (past year)	33%
Daily cannabis use (past year)	38% of users
Amphetamines (past year)	13%
Tobacco	72% men 59% women

4

Mental disorder	Percentage daily smokers
Harmful use/dependence on drugs	73.9
Harmful use/dependence on alcohol	50.1
Schizophrenia related conditions	47.4
Bipolar affective disorder	39
Panic disorder	38.1
Post traumatic stress disorder	31.3
Attention deficit hyperactivity disorder	28
Phobic anxiety disorders	27.9
Anxiety disorder, including GAD	27
Obsessive compulsive disorder	25.1
Depression	25

PREVALENCE OF DAILY SMOKING BY MENTAL DISORDER
(ABS 2014-15)

5

- Self-medication of MH conditions
- SU induce MH symptoms
- One disorder has an effect on an intermediary factor (e.g., education)
- Common factors (shared biological, psychological, social, or environmental risk factors)

EXPLANATIONS
(Kingston et al DAR, 2017)

6

COMPLEX PSYCHOLOGICAL SYMPTOMS
(Kingston et al DAR, 2017)

- Potential to interfere with treatment
- People with co-existing problems present with:
 - More severe clinical profile
 - Physical health, substance use, homelessness, social, occupational, interpersonal and family relationships

7

>2.5 m Australians live with a MH & at least one chronic health condition

29.3% are living with one chronic disease
30.5% are living with 2 or more chronic diseases

CHRONIC HEALTH CONDITIONS
(ABS, 2015)

8

MENTAL HEALTH DRUG & ALCOHOL

DUAL DIAGNOSIS

9

MENTAL HEALTH DRUG & ALCOHOL PHYSICAL HEALTH

TREATMENT SILOS

10

MA CANNABIS ALCOHOL TOBACCO

MULTIPLE DRUG AND ALCOHOL SILOS

11

EATING PERSONALITY DISORDER DEPRESSION & ANXIETY PSYCHOSIS

MULTIPLE MENTAL HEALTH SILOS

12



DITCH THE SILOS?!

13

ONE INTEGRATED / UNIFIED TREATMENT?



14

EXCESSIVE APPETITES
(Orford, 1985; 2001)

More comprehensive model of behavioural addictions

- Drugs
- Eating
- Sex
- Gambling

Strong attachment

Tx simpler, more universal



15

ADDICTION IS A DISORDER OF CHOICE
(Heather, 2017)

Addiction can be defined as “repeated failures to refrain from or radically reduce a specified behaviour despite prior resolutions to do so.”

16

DUAL PROCESS THEORY
(Heather, 2017)

COGNITIVE FUNCTION

EXECUTIVE CONTROL

AUTOMATIC PROCESSES

17

TREATMENT IMPLICATIONS
(HEATHER, 2017)

- Assist people achieve greater self control over their addictive behaviour
- Self control training; relapse prevention
- Cognitive bias modification
- Cognitive therapy
- Mindfulness
- Medications can only be *adjunctive*

18

UNIFIED TREATMENT FOR EMOTIONAL DISORDERS

(Barlow et al, 2004)

EFFICACIOUS TREATMENTS BUT

- Numerous manuals
- Highly complex
- Restricting effective training & dissemination

COMMONALITIES AMONG EMOTIONAL DISORDERS

- Distill a set of psychological procedures to comprise a unified intervention

3 fundamental therapeutic components

- Altering antecedent cognitive appraisals
- Preventing emotional avoidance
- Facilitating action tendencies not associated with dysregulated emotion

Pre: a module focused on motivation and psychoeducation

Final: relapse prevention strategies

UNIFIED PROTOCOL

(Barlow et al, 2004; Farchione et al, 2012)

'Transdiagnostic'

Pragmatic

Disorders more similar than different

Treatment components are quite similar

Theory driven

Address a core process or mechanism

ADVANCES IN UNIFIED TREATMENT

(Norton & Paulus, Beh Ther, 2016)

POTENTIAL TRANSDIAGNOSTIC PROCESSES NEGATIVE AFFECTIVE STATES

(Norton & Paulus, Beh Ther, 2016)

- Emotion regulation
- Anxiety sensitivity
- Attention biases
- Distress tolerance
- Intolerance of uncertainty
- Perceived control
- Perfectionism
- Psychological flexibility
- Repetitive negative thinking
- Shame
- Sleep disturbance / insomnia
- ? Unique constructs (vs one core latent process)
- Prospective studies needed (vs by-product of the pathology)

POTENTIAL TRANSDIAGNOSTIC PROCESSES / MECHANISMS (WITH SUBSTANCE USE PROBLEMS)

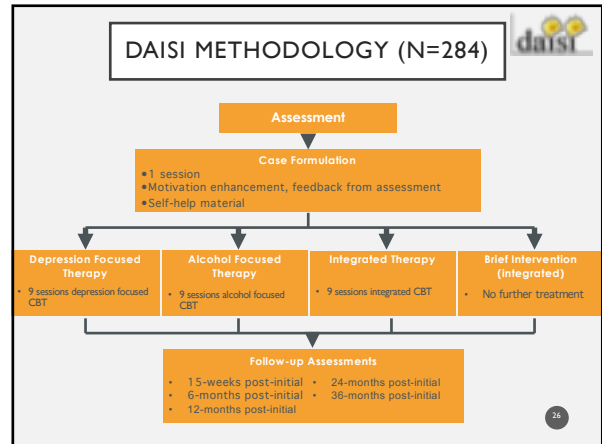
- Cognitive impairments (attentional bias, approach bias, sustained attention, response inhibition, working memory) *(Sofuoglu et al, 2016; Campbell et al, 2018)*
- Emotion regulation *(Sloan et al, 2017)*
- Personality *(Rodriguez-Seijas et al, 2015; Easton et al, 2015)*
 - Internalizing disorders: neuroticism and detachment
 - Externalizing: antisocial, disinhibition and antagonism
- Coping skills & self-efficacy *(Lit et al, 2018)*
- Unique and shared variance *(Rodriguez-Seijas et al, 2015)*

CLINICAL IMPLICATIONS

- Integrated treatment
- Review depression and alcohol: Hobden et al (2018)
- 7 RCTs (parallel or integrated)
- Parallel: CBT for depression more effective than residential alcohol treatment alone (n=3 studies)
- Integrated: 2/4 demonstrated superior outcomes for integrated (both CBT; others were 'disease management' by phone and web-based psychoeducation)

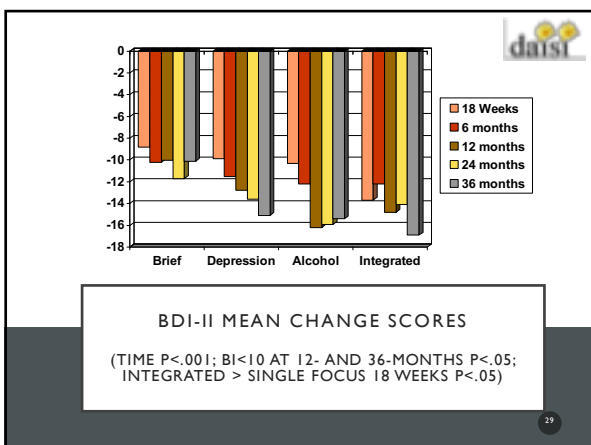
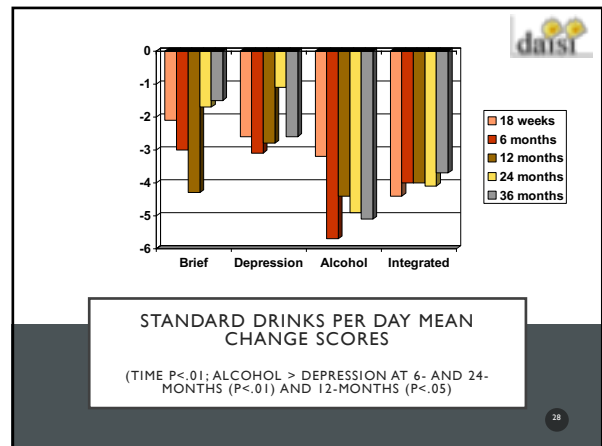
RANDOMISED CONTROLLED TRIAL OF CBT FOR CO-EXISTING DEPRESSION AND ALCOHOL PROBLEMS: 6-, 12-, 24- AND 36-MONTH OUTCOMES

(The DAISI Project, JSAT, 2014)
A.L. Baker, D.J. Kavanagh, F.J. Kay-Iambkin, S.A. Hunt, T.J. Lewin, V.J. Carr & P. McElduff



Depression Focus	Alcohol Focus	Integrated
<ul style="list-style-type: none"> • Mood monitor 	<ul style="list-style-type: none"> • Craving monitor 	<ul style="list-style-type: none"> • Craving & mood monitor
<ul style="list-style-type: none"> • Negative automatic thoughts 	<ul style="list-style-type: none"> • Permissive thoughts about drinking alcohol 	<ul style="list-style-type: none"> • Permissive thoughts about alcohol as a response to negative automatic thoughts

TREATMENT FOCUS



PTSD

(Bailey et al, J Mental Health, 2019)

- ? Effects of having PTSD (38%) symptoms when receiving any of the 4 treatments
- 3 months: reported significant reductions in PTSD symptoms and a lower rate of PTSD
- responded better to integrated CBT

TREATMENT OF MULTIPLE HEALTH BEHAVIOURS

FEARS ABOUT WORSENING MENTAL HEALTH SYMPTOMS & SUBSTANCE USE

MULTI-COMPONENT INTERVENTIONS: FEASIBLE, EFFECTIVE, AND MORE EFFICIENT
(Spring et al 2010)

HEALTHY LIFESTYLE INTERVENTION

Focus on diet, physical activity, smoking & alcohol/illicit substance use

Advantages

- Avoids stigma
- Avoids premature focus
- Appealing
- Allows multiple behaviour change

Psychiatry Research
journal homepage: www.elsevier.com/locate/psychres

'Better Health Choices' by telephone: A feasibility trial of improving diet and physical activity in people diagnosed with psychotic disorders

Amanda L. Baker^{a,c}, Alyna Turner^{a,c}, Peter J. Kelly^d, Roscoe Spring^e, Robin Calloner^f, Clare E. Collins^g, Kathryn L. Woodcock^h, Frances J. Kay-Lambkinⁱ, Holly Davis^j, Terry J. Lewin^k

ARTICLE INFO

ABSTRACT

The study objective was to evaluate the feasibility of a telephone delivered intervention consisting of individualized assessment and cognitive behavioral strategies aimed at improving diet and physical activity in people diagnosed with psychotic disorders. Twenty participants diagnosed with a non-affective psychotic disorder were recruited. The intervention consisted of eight telephone delivered sessions targeting their diet and physical activity. The study was successful in recruiting and retaining participants. The intervention was well received and participants showed improvements in diet and physical activity. The study was successful in recruiting and retaining participants. The intervention was well received and participants showed improvements in diet and physical activity.

BETTER HEALTH CHOICES

- Telephone delivered
- 8 sessions (weekly or twice a week)
- Session 1 = 1 hour; sessions 2-8 = 15-30 min
- Targets F&V and leisure screen time
- Can target smoking and/or alcohol use
- Motivational interviewing approach
- Resources manual & F&V pack sent out at start
- Contingency management (\$20/session)

Measures	Pre-treatment M (SD)	Post-treatment M (SD)	P-value
Fruit consumption (ARFS)	5.1 (3.1)	6.6 (2.9)	.008
Vegetable consumption (ARFS)	12.2 (4.0)	13.5 (3.5)	.018
Screen time (min/day)	298 (200)	163 (107)	.007

PRIMARY OUTCOMES (N=17)

Measures	Pre-treatment M (SD)	Post-treatment M (SD)	P-value
Diet Quality (ARFS)	33.2 (10.5)	38.2 (8.1)	.001
Weekday sitting (min/day)	555 (191)	412 (211)	.008
Walking (min/week)	252 (353)	356 (470)	.099
Cigarettes/day (n=5)	29.0 (10.3)	13.2 (14.3)	.082
Cannabis use/day (n=3)	16.2 (18.3)	4.0 (6.9)	.220
Depression	4.5 (3.3)	3.7 (2.8)	.149
Quality of life	25.6 (5.6)	28.4 (6.6)	.017
Global Functioning	57.1	62.6	.008

SECONDARY OUTCOMES (N=17)

TREATMENT SATISFACTION & FIDELITY

- Client Satisfaction Questionnaire (*Atkinson & Zwick, 1982*)
 - 100% rated service quality as good or excellent
 - 94% mostly or very satisfied overall
- Behaviour Change Counselling Index (*Lane et al., 2005*) practitioner score = 2.4 (0.3)
 - Behaviour change counselling skills utilised "to some extent"/"a good deal of the time".
 - No difference between therapists ($F=0.51, df=5, P=0.77$).

LIMITATIONS OF BHC STUDY

Limitations


- Non-controlled study with small sample
- Short follow-up time period
- Self-report measures

Future directions

- RCT
- Delivery by other professionals/ consumers

EARLY SMOKING OUTCOMES FROM A STEPPED WEDGE RCT OF A HEALTHY LIFESTYLE INTERVENTION IN RESIDENTIAL SUBSTANCE ABUSE TREATMENT

Peter J. Kelly, Amanda L. Baker, Frank P. Deane, Robin Callister, Clare Collins, Isabella Ingram, Camilla Townsend & Jessica Hazlecon



RISK BEHAVIOURS

Kelly, Baker, Kay-Lambkin, Deane & Boneykci, 2012

HEALTHY RECOVERY

8 session group based program

Designed for substance abuse populations

Program Goals

- Reduce smoking
- Increase physical activity
- Improve diet

43

Components of the intervention

- Education and rationale
- Group based motivational interviewing
- Goal setting and monitoring
- Contingency management (smoking)
- Nicotine replacement therapy

HEALTHY RECOVERY

44

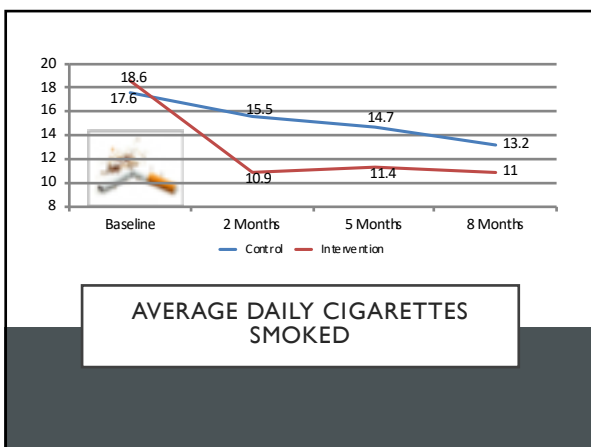
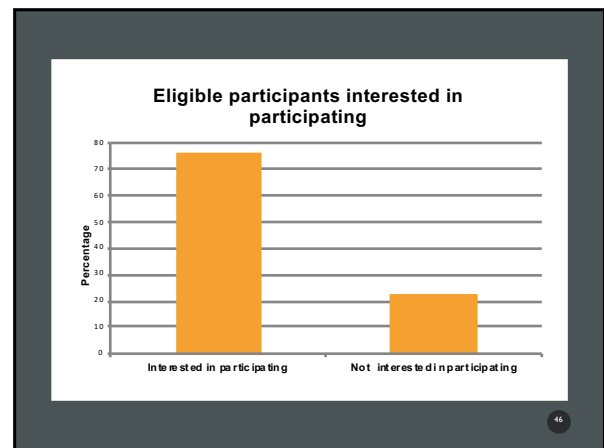
Participants (N = 172)
 Attending The Salvation Army Recovery Service Centres
 74% males, average age = 38 years, 72% alcohol problems
 All participants were smokers

Design
 Stepped wedge randomized controlled trial
 Intention to treat analysis

Procedure
 5-week group program delivered
 Researcher + drug/alcohol workers co-facilitated the groups

METHODS

45



	2-months	5-months	8-months
Control	2%	6%	8%
Healthy Recovery	18%	12%	15%
P-value	.14	.36	.30
Odds Ratio	22.0	3.1	3.5

QUIT RATES AT FOLLOW-UP

	2-months	5-months	8-months
Control	21%	19%	26%
Healthy Recovery	60%	45%	29%
P-value	.001	.004	.69
Odds Ratio	8.3	4.5	1.3

USE OF NICOTINE REPLACEMENT THERAPY (NRT)

HEALTHY RECOVERY

- **Healthy Recovery**
 - Significantly better reductions in smoking
- **Self efficacy** mediates reductions on smoking
- **Challenge is to embed** these types of programs as part of routine care

50

MAINTENANCE - MUTUAL AID

- Reliable reductions lowest - alcohol (*Manning et al 2016*)
- Mutual aid attendance predicted treatment success (alcohol) (*Manning et al 2016*)
- Evaluate SMART Recovery and 12-step approaches

51

FUTURE RESEARCH

- Common psychotherapies have widespread positive effects (*Rodriguez-Seijas et al. 2015*)
- Metacognitive therapy could have potential (*Hamonniere & Varescon, 2018*)
- Vujanovic et al (2017): overview dep & SUD
 - Traditional CBT (integrated)
 - ACT – 2 small RCTs positive
 - Mindfulness – no RCTs
 - BA – no RCT

52

Measure domains of interest but specifically substance use

Use CBT or promising third wave intervention

Address multiple addictive behaviours

Follow-up and recommend mutual aid

TAKE AWAY MESSAGES

53