

Weathering the Perfect Storm: Building Capacity to Address Co-Occurring Brain Injury, Substance Use and Serious Mental Disorders

Carolyn Lemsky, Ph.D., C.Psych  
Toronto ABI Network Conference, 2024  
December 6, 2024

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## Disclosures

Dr. Lemsky received funding for this work by the Substance Abuse and Mental Health Administration, Mid-America Technology Transfer Center and the National Association of State Head Injury Administrators.

Earlier versions of this work were funded by the Ontario Neurotrauma Foundation

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## Acknowledgements



**Neurobehavioural Intervention Team (NBIP) and the clients we serve.**  
**Community Head Injury Resource Services, Toronto**

Center for Addictions and Mental Health, Toronto Canada  
Tim Godden  
Peter Selby  
Andrew Smith

Collaborating Physicians  
Chanth Seyone  
Omar Ghaffar

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# Overview

What's happening now...

What we'd like to see more of...

- Evidence- based intervention for co-occurring brain injury and substance.
- Promising practices
- NBIP as a program example
- Facilitating partnerships between mental health, addictions and ABI providers.

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# Brain injury and behavioural health difficulties have common risk factors



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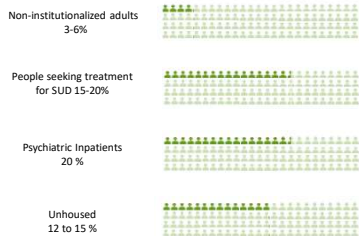
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# Moderate to Severe TBI



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Jessie

44- year-old woman who sustained her injury as the result of an assault at age 21.

- Severe Substance Alcohol Use Disorder.
- Severe mixed aphasia.
- Living on her own in the community with some support from family and friends.
- She is unhappy, recently enjoyed a detox stay.
- She expresses a desire for a sober lifestyle.
- She wants to attend inpatient treatment.
- Negative interactions with ABI service providers has made her reluctant to participate in any ABI services.

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Tom

- 56-yearold man. Diagnosed with Wernicke’s encephalopathy. Moderate to severe impairments of executive functioning, moderate memory impairment.
- Lives with aging parents because when he returns to his own home he inevitably drinks in a harmful fashion.
- Expresses a desire to abstain. Unable to structure daily activities independently.

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Andrew

- History of Childhood adverse events
- 25 year-old who used cannabis regularly since early adolescence.
- Severe brain injury at 15 years. Ongoing Cannabis use.
- Developed Psychotic Disorder beginning at age 19.
- Failed housing placements as the result of verbally aggressive behaviour.
- Unhoused. Refuses treatment for psychotic disorder.
- Despite a community treatment order he has been lost to care for 4 months.

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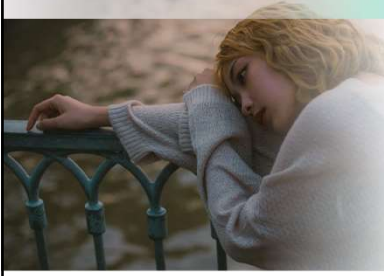
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History of brain injury is a marker for symptom complexity



- Brain injury is associated with health complications such as seizures.
- History of brain injury is associated with more and more severe psychiatric symptoms.
- History of brain injury increases the risk of suicide three-fold.
- Problems with self regulation
- Problems with cognitive functioning

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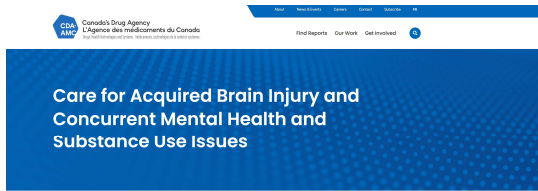
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Care for Acquired Brain Injury and Concurrent Mental Health and Substance Use Issues | CDA-AMC



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The literature review and survey aimed to address the following questions:

- What systems and services are in place in Canadian jurisdictions for the care of individuals with ABI and concurrent mental health conditions and/or substance use disorders?
- What are the integrated patient-centred care centres that exist in Canada for individuals with ABI and concurrent mental health conditions and/or substance use disorders?
- What are current needs and gaps related to the care of individuals with ABI and concurrent mental health conditions and/or substance use disorders?

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## Survey Results

The survey results highlighted that while mental health and substance use services do exist, there is a need for effective integration between agencies, systems, ministries, and funding sources, given the needs of individuals with ABI and concurrent mental health conditions and/or substance use disorders. **Some community associations have recognized the needs of this unique population and have begun collaborations and cross-training their health care staff between these care sectors."**

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## Ontario Mental Health and Addictions



- OBIA/Brock course
- TABIN resolution table
- CHIRS NBIP Program
- Hamilton Health Sciences
- Substance use and Brain Injury Bridging Project
- March of Dimes
- North Simcoe Muskoka
- York-Simcoe Muskoka

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## Challenges



Timely access to care.



Limited resources and funding for programs that exist.



Limited programming in rural and remote communities.



Relationships with mental health and addictions programming

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British Columbia  
**Long-term opioid abusers suffer from crumbling bones, brain injuries and have little hope of treatment**  
 Bent spines, fevers, risk of amputations — the toll of drug harm is rising  
 Photo: David / CBC News - Photo: Nov 02, 2023, 6:01 PM EDT / Last Updated: January 13



Decades of drug abuse and a recent accident have left Hugh Langlois of Vancouver, seen here on Wednesday, with a severely bent spine and no hope of corrective surgery. (Ben Matlock/CBC)

### Substance-related brain injury

- Between 2016 and 2023, 16 Canadians died every day of a toxic exposure to drugs.
- Using a conservative one to 15 ratio of fatal to non-fatal overdose, there were a potential 240 new brain injuries a day related to drug toxic events.

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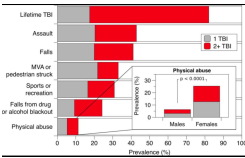
### Hotel study, Vancouver BC.

Participants: 285 precariously housed people.

- TBI in 82.1%; 21.4% moderate to severe
- Females reported more brain injuries
- First Mod/Severe injury occurred closer to onset of homelessness
- TBIs that occurred at onset of homelessness were associated with long-term homelessness

Characterizing Traumatic Brain Injury and Its Association with Losing Stable Housing in a Community-based Sample  
 Jack L. Dulak<sup>1,2</sup>, Adam P. Thomas<sup>1,2</sup>, Andrea M. Giese<sup>1,2,3</sup>, Tiffany A. Conway<sup>1,2</sup>, Emily W. Langley<sup>1,2</sup>, Ryan T. Lee<sup>1,2</sup>, David K. Minkoff<sup>1,2</sup>, Joseph C. Langley<sup>1,2</sup>, Amanda T. Gentry<sup>1</sup>, Paula S. Fong<sup>1</sup>, Wang Y. Han<sup>1</sup>, Olga Lantieri<sup>1</sup>, Christopher S. Salovey<sup>1</sup>, Ted Buchanan<sup>1,4</sup>, Charles M. Bell<sup>1,2</sup>, Christopher McDonald<sup>1</sup>, Alexander Roushka<sup>1</sup>, William G. House<sup>1,2</sup>, William J. Rouseley<sup>1,2,3,4</sup>

*1*University of British Columbia, *2*Centre for Health Equity Promotion, *3*Centre for Mental Health and Substance Use, *4*Centre for Addictions Research in BC  
 PMID: 3718411 | PMCID: PMC9303388 | DOI: 10.1177/08919133231190068



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### Comprehensive, Continuous, Integrated System of Care (CCISC) Model

- Co-occurring issues and conditions are an expectation, not an exception.
- Care is client-centered and individualized.
- Treatment should be co-occurring.

**The best practice intervention is integrated dual or multiple primary treatment, in which each condition or issue receives appropriately matched intervention at the same time.**

Minkoff K & Cline C, Developing welcoming systems for individuals with co-occurring disorders: the role of the Comprehensive Continuous Integrated System of Care model. *J Dual Diagnosis* 2005, 1:63-89

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**Simple**

- Clear Problem
- Clear Solution (Absence of the problem is easily identified)

**Complex**

- Can only be understood with time
- Many elements (each of which is familiar).
- Hidden root causes

**Wicked**

- Many stakeholders with conflicting perspectives
- May not have a "right or wrong" answer
- Problem resists definition by shifting
- Ambiguous
- Chaotic

Rittel and Webber

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**SIMPLE Problems** you take a Formulaic approach.

**COMPLEX Problems** you take a Systematic approach.

**WICKED Problems** For Wicked problems you take a Creative approach.

*Effective Approaches to Problem Types*

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**Alcohol and Drug Cognitive Enhancement (ACE) program**

Improving brain function for better alcohol and drug treatment outcomes

<https://aci.health.nsw.gov.au/projects/ace-program#:~:text=The%20ACE%20program%20is%20a,identify%20clients%20with%20cognitive%20impairment>

**What would we like to see?**

- Residential and outpatient addictions programming that accommodates neurocognitive impairment.
- Long-term settings that are brain injury aware.
- Brain injury programs that have access to the needed expertise to implement harm reduction and encourage entry into appropriate care settings.

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## Flexible, Creative yet Systematic Approach

- Lower barriers for accessing care
  - Limit or provide support with paperwork
  - Drop-in/flexible schedule
  - Outreach
- Rapid Access Addiction Medicine Clinics
- ACT teams
- Crisis teams
- Supervised consumption sites
- Programming that addresses:
  - Cognitive impairment
  - Personal identity
  - Desired modes of treatment
- Matching the intensity of services to the needs of the client

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## Integrating intervention

Primary Services	ABI or Addictions –Based Shared Care	Specialized Services
Screening Education Brief Intervention/Accommodation Referrals/partnerships Keep Serving	Harm Reduction Accommodation for cognitive impairment Cognitive assessment and compensation training Active Partnerships for consultation and referral	Integrated ABI/ Substance use and mental health programming Cross-trained professionals Long-term programming Behavioral interventions Addictions Medicine/neuropsychiatry Integration of community/environmental supports

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## Integrating intervention

ABI Services	SUD/Mental Health Providers
<ul style="list-style-type: none"> <li>• Screening for behavioural health disorders</li> <li>• Recognizing the signs of SUD</li> <li>• Addressing behavioural health in a rehabilitation context</li> <li>• Motivational interviewing</li> <li>• Harm Reduction Practices</li> <li>• How to refer to appropriate programs</li> <li>• Active Partnerships for consultation and referral.</li> </ul>	<ul style="list-style-type: none"> <li>• Screening for Brain Injury</li> <li>• Recognizing the signs of cognitive impairment</li> <li>• Accommodating cognitive impairment</li> <li>• How and when to refer for brain injury services</li> <li>• Active Partnerships for consultation and referral</li> </ul>

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Challenges to Integrated Care



**Care Silos (Specialized care)**

- Limited awareness of the co-occurring diagnoses/treatment
- Restrictive admission policies
- Reduced access to specialized knowledge

**Stigma**

- Dual stigma related to disability, cognitive impairment and substance use.
- Reduced access to the social determinants of health (housing, healthcare, nutrition and community).

**Policy**

- Limits on contingency management payments
- Limited support for harm reduction programming

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A few myths to address



**You need to have very specialized training to help someone with a substance use or mental health disorder.**

Treatments with the strongest evidence base resemble interventions you are already familiar with.



**Treatment only starts when a person has a commitment to change.**

Harm reduction interventions are useful on their own and may be the path to intervention/support

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A few myths to address



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## A few myths to address



**You need to have very specialized training to help someone with a brain injury.**

Treatments with the strongest evidence base resemble interventions you are already familiar with.



**Treatment only starts when a person has a commitment to change.**

Harm reduction interventions are useful on their own and may be the path to intervention/support



**People with complex problems don't change**

Longer periods of intervention may be required. Supports may need to fade in over time

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## Key Evidence-Based Practices

Interventions with RCT/Meta-analyses	ABI Specific Evidence	Notes
Brief Intervention (FRAMES)	Prevention/Education (e.g. Bogner et al., 2021)	Multi-media key SBIRT - Booster sessions Brain Health/Health focus
Incentives Contingency Management	(Corrigan et al., 2005)	Incentive to attend supported engagement
Motivational Interviewing	Small controlled studies Cox, et al., 2003)	Increase structure repetition
Community Reinforcement and Family Training (CRAFT)	Intensive case management (Bogner et al, 1997) Skills training (Vungkhanching et al., 2007)	Elements of CRAFT, but not full model
Harm Reduction	?	
Pharmacotherapy	Limited RTCs,	

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## Outcome studies suggest...



**Outcome related to treatment duration**



**Characteristics associated with dropping out**

Cognitive Impairment  
Psychiatric disorders  
Unemployment



**Retention in treatment is associated with Therapeutic Alliance**

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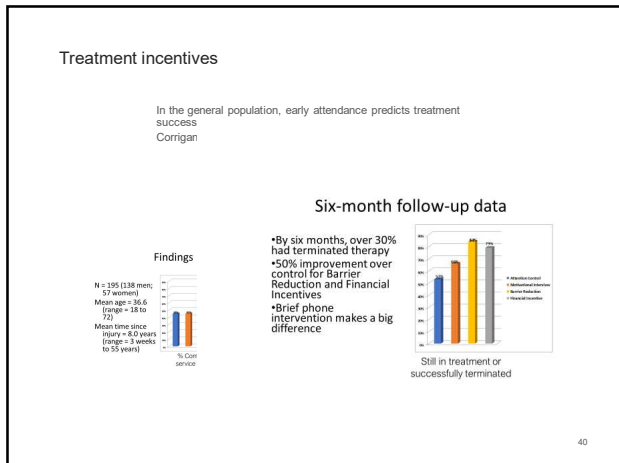
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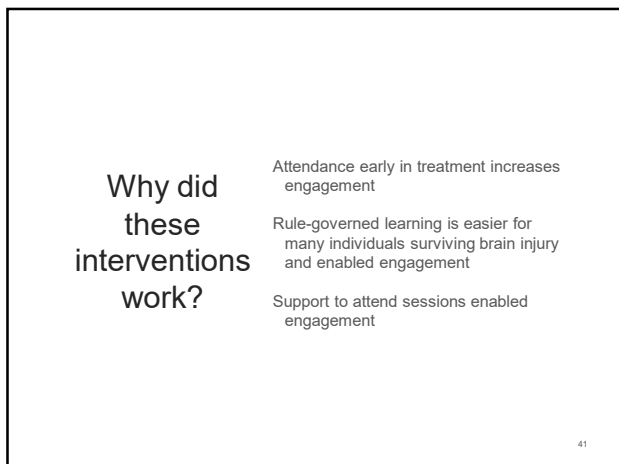
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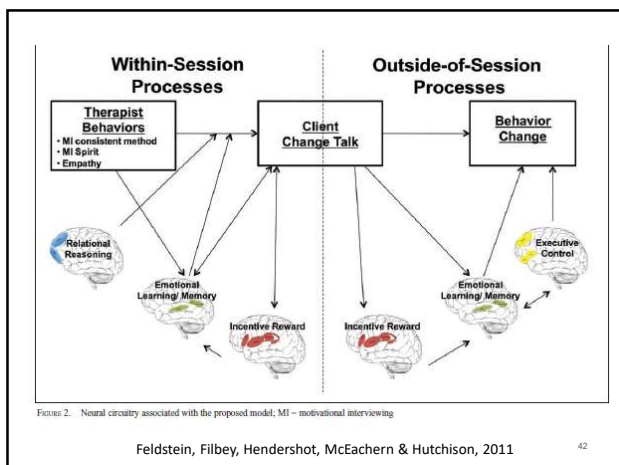
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### Motivational Interviewing: Modifications for people with neurocognitive impairment

- More Directive**
  - More time spent in agenda setting
  - Specific strategies to address tangential speech and thought
- Cognitive adaptations**
  - More frequent summaries
  - Simple reflections
  - Cautious use of metaphor
  - Visual aids during sessions
  - Repetition
- Supporting self-efficacy /agency**
- Focus on accepting and using environmental supports**

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### Community Reinforcement and Family Training

Click to LOOK INSIDE!

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**CRAFT**

- Main outcome is entry into treatment
- Works best with full model employed (individual /group treatment)
- Reduces harms and improves family member's mental health and life satisfaction.

➤ Addiction. 2020 Jun;115(6):1024-1037. doi: 10.1111/add.14901. Epub 2020 Jan 3.

### Community reinforcement and family training and rates of treatment entry: a systematic review

Marc Archer <sup>1</sup>, Hannah Harwood <sup>1</sup>, Sharon Stevelink <sup>1, 2</sup>, Laura Rafferty <sup>1</sup>, Neil Greenberg <sup>1, 3</sup>

Affiliations + expand  
PMID: 31770469 DOI: 10.1111/add.14901

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### Principles

- Do no harm
  - No coercion
  - Don't limit services
- A realistic view of substance use
- Substance users should participate in service development
- Progress is improvement in well being
- Goals for Treatment should be prioritized
- Success is linked to self-efficacy
- Some environmental, emotional and neurobehavioural factors leading to use may be beyond that individual's control

**Harm Reduction**

Harm Reduction is an evidence-based, client-centred approach that seeks to reduce the health and social harms associated with addiction and substance use, without necessarily requiring people who use substances to abstain or stop.

CMHA

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### What our clients told us about self-help groups e.g. AA, NA, Smart Recovery

- Overwhelmed by the setting and information
- Overwhelmed by urges and affect
- Shame related to both injury and substance use

"I was so distracted by the fact that I couldn't remember anyone's name and so ashamed, I didn't go back."

"I didn't go back, because I missed a group and they were strict about that. I figured I'd get kicked out anyway."

"I can't remember what they were talking about exactly, but I knew I wasn't going straight home after the meeting. I was picking up."

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### What worked?

- One on one sessions
- Breaks for longer groups
  - Group longer than one hour needs a break
- Help getting organized
  - Getting used to traveling to the group
  - Written materials
  - Repetition in group
- Name tags
- Notes from the facilitators
- Clear rules
- Feedback and incentives (Knowing when I got it right.)
- Having something to do that didn't involve drugs (a safe place to go.)




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Key Evidence-Based Interventions for Behavior Management

- Positive Behavioral Supports
- Mindfulness/Emotional Regulation Training
- Goal Management Training
- Meta-cognitive Training
- Adapted Cognitive-Behavioral Therapy

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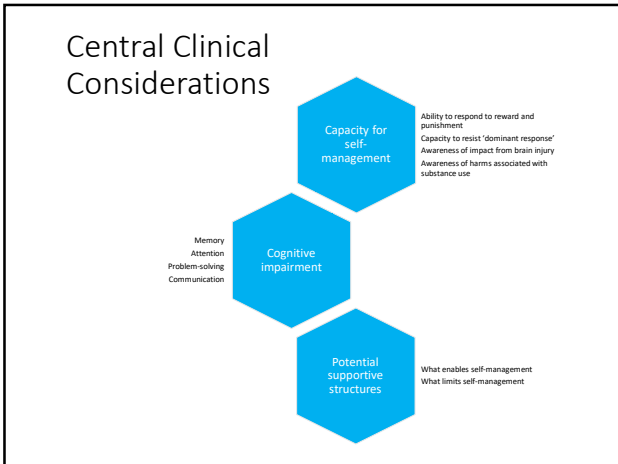
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### Program Features

- Longer periods of intervention (extensive rather than intensive)
- Gradual fading-in of supports
- Focus on environmental supports when awareness/insight or commitment is low
- Smaller case loads
- Flexible, transdisciplinary interaction
- Ethical framework to directly address moral distress and support clinical decision making

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**Optimism**

"There's always something that works even if the third or fifth or twentieth thing we try."



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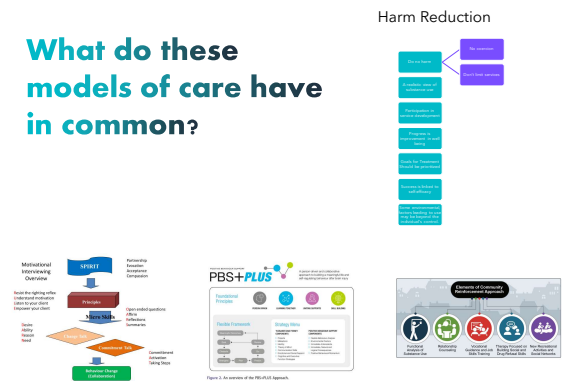
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**What do these models of care have in common?**

**Harm Reduction**



The infographic includes several diagrams: 'Individualized' with a flowchart of assessment, intervention, and evaluation; 'PBS+PLUS' with a grid of service components; and 'Harm Reduction' with a list of strategies like 'No coercion' and 'Participation in service development'. A 'Systems of Opportunity' section at the bottom lists various support services.

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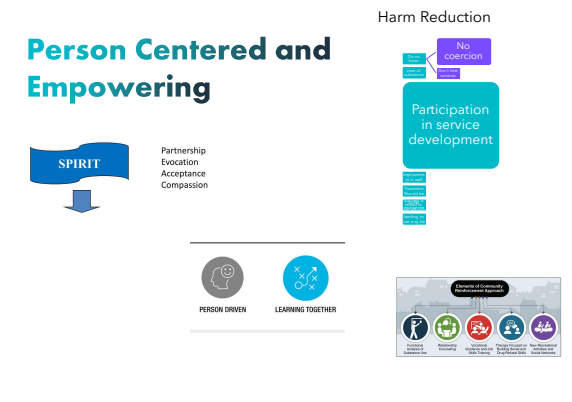
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**Person Centered and Empowering**

**Harm Reduction**



This infographic features the 'SPIRIT' model (Partnership, Evocation, Acceptance, Compassion) and 'PERSON DRIVEN' and 'LEARNING TOGETHER' icons. It also includes a 'Harm Reduction' section with 'No coercion' and 'Participation in service development', and a 'Systems of Opportunity' section at the bottom.

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# Meaningful Engagement

**Harm Reduction**

- Progress is improvement in well being

**Strategy Menu**

YUSISAKER AND FEENEY COMPONENTS	POSITIVE BEHAVIOUR SUPPORT COMPONENTS
<ul style="list-style-type: none"> <li>Practices</li> <li>Metaphors</li> <li>Identity</li> <li>Theory of Mind</li> <li>Communication Skills</li> <li>Emotional and Social Support</li> <li>Cognitive and Executive Function Strategies</li> </ul>	<ul style="list-style-type: none"> <li>Flexible Behaviour Analysis</li> <li>Environmental Factors</li> <li>Immediate Antecedents</li> <li>Immediate, Natural and Logical Consequences</li> <li>Positive Behavioural Momentum</li> </ul>

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# Environmental Supports

**Harm Reduction**

Some environmental factors leading to use may be beyond the individual's control.

**UNITING SUPPORTS**

**Relationship Counseling**

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# Behavioral Analysis/Antecedent Management

**Harm Reduction**

Some environmental factors leading to use may be beyond the individual's control.

**POSITIVE BEHAVIOUR SUPPORT COMPONENTS**

- Flexible Behaviour Analysis
- Environmental Factors
- Immediate Antecedents
- Immediate, Natural and Logical Consequences
- Positive Behavioural Momentum

**Functional Analysis of Substance Use**

**Relationship Counseling**

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### Phased Care Addressing Readiness for change

Harm Reduction

- Progress is improvement in well being
- Goals for Treatment Should be prioritized
- Success is linked to self-efficacy

**Flexible Framework**

Summaries

- Change Talk
- Commitment Talk
- Behaviour Change (Collaboration)
- Commitment Activities Taking Steps

Desire Ability Reason Need

Elements of Community Engagement Approach

- Personalized Supportive Care
- Peer Support
- Community Norms
- Individualized Assessment and Tailored Care
- Targeted Outreach and Engagement
- Peer Support and Mutual Aid
- Peer Support and Mutual Aid
- Peer Support and Mutual Aid

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### Program Structure

- Assessment
- Record review/Mental Health screening
- Interview
- 16-week Psycho-educational Group
- Weekly one-on-one (with case management support if available)
- Bi-weekly group volunteering
- Access to CHIRS programs/volunteering
- AA closed Step Meeting at CHIRS
- Integrated Clinical Care with transdisciplinary consultation

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### Rooftop Garden: CHIRS Farm to Table resource

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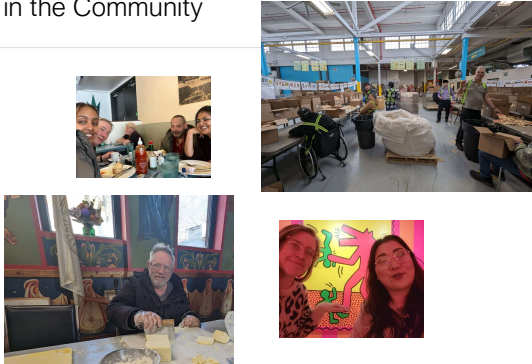
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### NBIP in the Community



The slide features four photographs illustrating community activities. The top-left photo shows a group of people sitting around a table, possibly at a meal or meeting. The top-right photo shows a large warehouse or industrial space with people and equipment. The bottom-left photo shows a man sitting at a table, possibly in a community center. The bottom-right photo shows two women smiling, with one holding a colorful drawing.

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### Dilemmas and moral distress

- Client shares substances with vulnerable clients
- Client's s/o encourages clients' use
- Client experiences significant harms while intoxicated
- Medical cannabis prescription without clear dosing
- When should treatment be compelled

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### Moral distress

- Taking your work home with you
- Feeling anxious
- Feeling 'icky' about a decision
- Conflict among team members or with family members
- Questioning your own beliefs



The slide features an illustration of a person standing with their hand to their chin, looking thoughtful. To the right of the person, there are several tangled, white lines that resemble a ball of yarn or a complex web, symbolizing mental clutter or moral distress.

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## Recognizing Ethical Issues

- Conflicting goals, beliefs or problematic alternatives
- The path forward is unclear
- There is a concern for individuals' or groups' rights
- Conflicting obligations
- Concerns about fairness/justice

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## Ethical Framework


**Worksheet**

Step 1: Identify Relevant Facts  
 Step 2: Determine which ethical principles are in conflict.  
 Step 3: Explore potential options.  
 Step 4: Act on your Decisions and Evaluate

**Ethical Principles**

- Respect for the Dignity of People
- Responsible Service Provision
- Integrity in Relationships
- Responsibility to the Community

[www.communityethicsnetwork.ca](http://www.communityethicsnetwork.ca)



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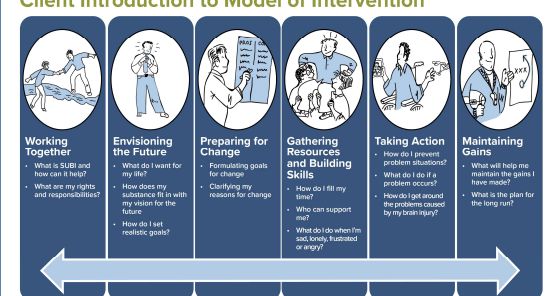
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## Client Introduction to Model of Intervention



**Working Together**

- What is SUBB and how can it help?
- What are my rights and responsibilities?

**Envisioning the Future**

- What do I want for my life?
- How does my substance fit in with my vision for the future?
- How do I set realistic goals?

**Preparing for Change**

- Formulating goals for change
- Clarifying my reasons for change

**Gathering Resources and Building Skills**

- How do I fit my time?
- Who can support me?
- What do I do when I'm sick, being frustrated or angry?

**Taking Action**

- How do I prevent problem situations?
- What do I do if a problem occurs?
- How do I get around the problems caused by my brain injury?

**Maintaining Gains**

- What will help me maintain the gains I have made?
- What is the plan for the long run?

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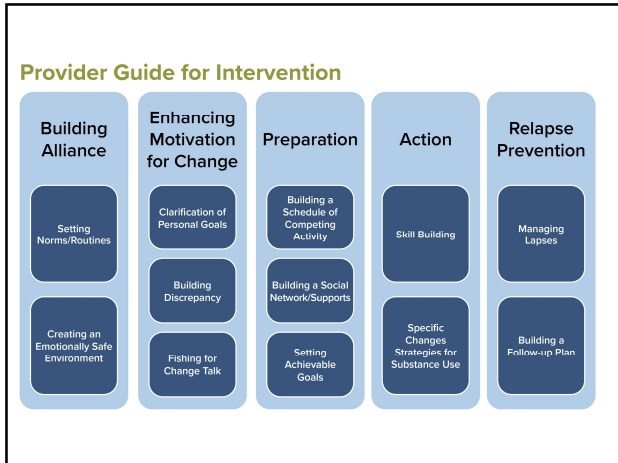
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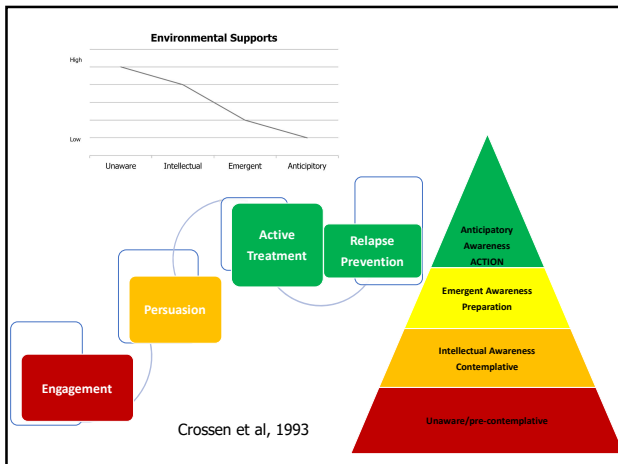
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### Supporting the development of integrated programming

- Raising awareness
- Screening
- Teach providers what they can do
- Materials to facilitate productive partnerships

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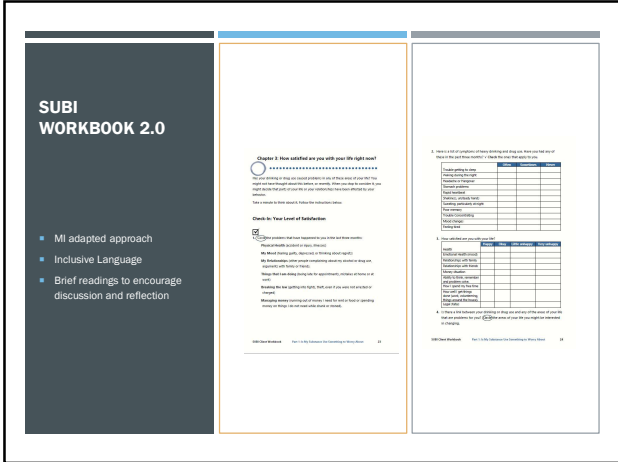
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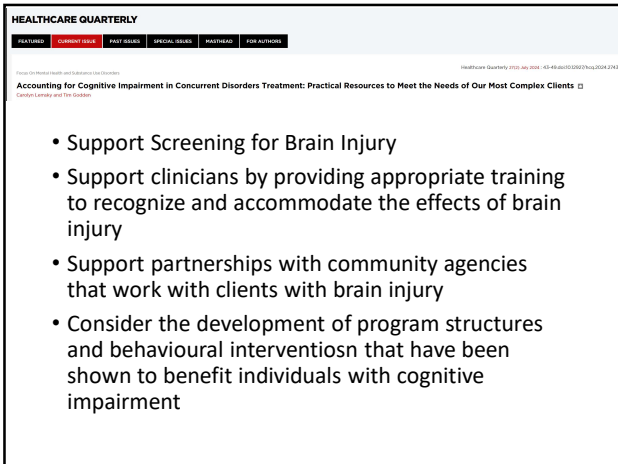
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- Support Screening for Brain Injury
- Support clinicians by providing appropriate training to recognize and accommodate the effects of brain injury
- Support partnerships with community agencies that work with clients with brain injury
- Consider the development of program structures and behavioural interventions that have been shown to benefit individuals with cognitive impairment

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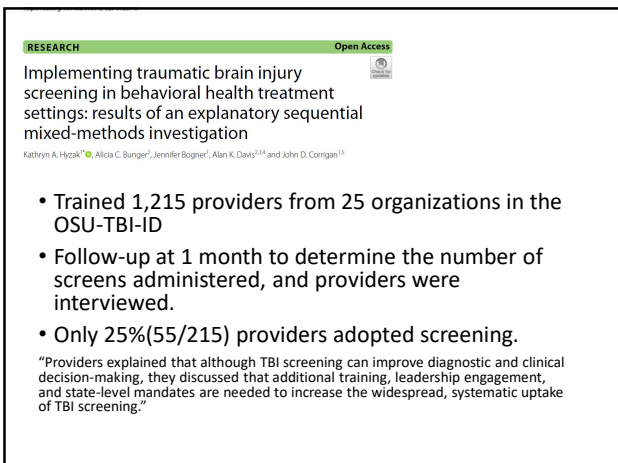
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- Trained 1,215 providers from 25 organizations in the OSU-TBI-ID
  - Follow-up at 1 month to determine the number of screens administered, and providers were interviewed.
  - Only 25%(55/215) providers adopted screening.
- "Providers explained that although TBI screening can improve diagnostic and clinical decision-making, they discussed that additional training, leadership engagement, and state-level mandates are needed to increase the widespread, systematic uptake of TBI screening."

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**RESEARCH** Open Access

Implementing traumatic brain injury screening in behavioral health treatment settings: results of an explanatory sequential mixed-methods investigation

Kathryn A. Hyzak<sup>1</sup>, Alicia C. Bunger<sup>1</sup>, Jennifer Bogner<sup>1</sup>, Alan K. Davis<sup>2,3</sup> and John D. Corrigan<sup>1\*</sup>

“Providers explained that although TBI screening can improve diagnostic and clinical decision-making, they discussed that additional training, leadership engagement, and state-level mandates are needed to increase the widespread, systematic uptake of TBI screening.”

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### Building Partnerships

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**Investigate local programs**

- Concurrent disorders programs may have the most flexibility in admissions and programming
- Know referral criteria, program philosophy and admission processes
- Explore access to addiction medicine

2

**Start with individual clients**

- Refer when the time is right (clients are ready and willing to participate)
- Develop communication/collaboration strategies

3

**Offer Training/Consultation**

- Client-specific strategies
- General TBI/SUD curricula
- Share resources

Footer 86

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Jessie



44-year-old woman who sustained her injury as the result of a fall at age 21.

Severe Substance Alcohol Use Disorder.

Severe mixed aphasia.

Living on her own in the community with some support from family and friends.

She is unhappy, recently enjoyed a detox stay.

She expresses a desire for a sober lifestyle.

She wants to attend inpatient treatment.

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Jessie

- Prepare client and providers for inpatient stay
  - Augmentative Communication Strategies
  - Staff Training
  - Direct support while in programming.
- Look for long-term supports in the community
  - CHIRS outreach programming
  - Sober living settings
  - Education for natural supports

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Tom

- 56-yearold man. Diagnosed with Wernicke's encephalopathy. Moderate to severe impairments of executive functioning, moderate memory impairment.
- Lives with aging parents because when he returns to his own home he inevitably drinks in a harmful fashion.
- Expresses a desire to abstain. Unable to structure daily activities independently.

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Tom

- Social Support
  - Men's group
  - Outreach Supports to coordinate with addictions programming
  - Education and support for Addictions program
  - Meaningful activity
- Family education
  - Social Work Intervention
- Support to find culturally relevant supported housing in the community



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Andrew

- History of Childhood adverse events
- 25 year-old who used cannabis regularly since early adolescence.
- Severe brain injury at 15 years. Ongoing Cannabis use.
- Developed Psychotic Disorder beginning at age 19.
- Failed housing placements as the result of verbally aggressive behaviour.
- Unhoused. Refuses treatment for psychotic disorder.
- Despite a community treatment order he has been lost to care for 4 months.

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Andrew

Partnership with ACTT

- Supported compliance with depot medication

Active support while housed in the shelter system

- Communication with shelter staff
- Development of coordinated approaches to difficult behaviour

Ongoing communication with family

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Resources

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# SUD and TBI



Information about Brain Injury and Substance use

[www.OhioValley.org](http://www.OhioValley.org)  
[www.Brainline.org](http://www.Brainline.org)



Client workbook download

[https://attcnetwork.org/sites/default/files/2022-02/Client%20Workbook\\_1.pdf](https://attcnetwork.org/sites/default/files/2022-02/Client%20Workbook_1.pdf)

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<https://attcnetwork.org/centers/mid-america-atto/traumatic-brain-injury-sud-series>



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## CLIENT WORKBOOK

Substance Use and Brain Injury



Second Edition



Designed to illustrate adaptations of common practice in intervention for substance use for ABI



A place to 'get started' for ABI-trained professionals



MI focus now structured as a treatment program

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# Multi-media



OLD VIDEO <https://www.youtube.com/watch?v=Rmu3fPhxaGs>  
<https://www.youtube.com/watch?v=6RubUo3urpA&t=133s>

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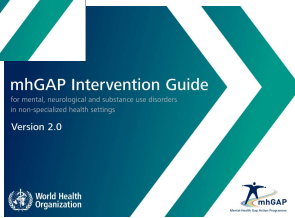
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## Useful resource



<https://www.who.int/publications/i/item/9789241549790> (English)  
<https://apps.who.int/iris/bitstream/handle/10665/274363/9789242549799-fre.pdf?ua=1> (Français)

Footer

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# Craft / CRA

The Community Reinforcement Approach  
An Update of the Evidence  
Robert J. Meyers, Ph.D., Hendrik G. Roozen, Ph.D., and Jane Ellen Smith, Ph.D  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3860533/>

Community Reinforcement Approach  
<https://www.ccsa.ca/community-reinforcement-approach-essentials-series>

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The ACE cognitive remediation program is 12 one-hour group-based sessions, to run with clients who would benefit from this more intensive program (an alternative option is the **brief intervention**).

Each session is dedicated to strategy training, which includes traditional instructional teaching approaches, group discussion and reflection, and exercises to demonstrate the concepts that are learned in the program.

The resources clinicians need to run the sessions, including introductory and training videos, are available below.

**Getting started**  
An overview of the ACE program and tips for implementation.

**Introduction to the ACE modules**  
Overview of the ACE modules that clinicians can share with participants in program.

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<https://aci.health.nsw.gov.au/projects/ace-program>

- Screening
- Intervention
- Online training modules for facilitators
- Free materials

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Questions?

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