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Family-Focused Practices in Addictions: A Scoping Review Protocol

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3 Family-Focused Practices in Addictions: A Scoping Review Protocol
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14 Toula Kourgiantakis¹

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38 ^{1,2}Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON,
39 Canada
40

41 Corresponding Author:
42 Toula Kourgiantakis, PhD, RSW, RMFT
43 246 Bloor Street West
44 Toronto, Ontario
45 Canada M5S 1V4
46 416-978-4176
47 toula.kourgiantakis@utoronto.ca
48
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Abstract

Introduction: Families are significantly impacted by addictions and family involvement in treatment can reduce the harms and improve treatment entry, treatment completion and treatment outcomes for the individual coping with an addiction. Although the benefits of family-focused practices in addictions have been documented, services continue to have an individual focus and research on this topic is also limited. The objective of this study is to map the extent, range, and nature of evidence available examining family interventions in addictions and identify gaps that can guide future research, policy and practice. **Methods and analysis:** This is a scoping review using the five-stage framework developed by Arksey and O'Malley.¹ We will include published and unpublished empirical studies focusing on any type of family interventions in addiction treatment between 2000 to present in English or French. A reviewer will search for literature that meets the inclusion criteria through the following electronic databases: MEDLINE, PsycINFO, and Social Services Abstracts. For a comprehensive search, we will also hand search reference lists, websites, and key journals. Data will be charted and sorted using a qualitative thematic analysis approach and also a narrative summary approach. **Ethics and dissemination:** This review will be the first to examine family-focused practices for both substance use and problem gambling. It will provide information about existing service provisions and gaps in practice. This review can be used to start moving toward the development of best practices for families in addiction treatment. The results will be disseminated through a peer-reviewed journal and at mental health and addiction conferences.

Strengths and Limitations of this Study

- This scoping review will be the first to examine family-focused practices in both substance use and gambling treatment
- Inclusion criteria are broad (English and French, peer-reviewed and grey literature) and this will give the review breadth and comprehensiveness
- The studies included in the review will not be appraised for quality
- Rigour will be enhanced through the use of a data charting form and a transparent, iterative, team approach

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Introduction

There are more than 29.5 million individuals worldwide who have a drug use problem² and 76 million people with alcohol use disorder.³ More recently, there has been more research on behavioural addictions and studies show that problem gambling affects 0.12 – 5.8% of people across five continents.⁴ Substance use disorders and problem gambling are linked with multifarious consequences including health concerns,⁵ financial difficulties, stigma, discrimination, and isolation.⁶ It is estimated that more than 50% of those seeking services for an addiction are also coping with mental illness⁷ and many studies have also found that the rates of suicidal ideation, attempts, and completed suicides are elevated for individuals with an addiction.⁸⁻¹⁰ There is also an increasing awareness of the impact of addictions not only on individuals, but also on families. More than 100 million family members are affected by a relative's addiction.¹¹ The addiction of a family member has many adverse effects for family members such as high levels of distress^{12, 13} health problems, family conflict, domestic violence, child maltreatment, and financial precarity.¹² Despite the negative impact on families, addiction treatment has historically focused on the individual.^{14, 15} Csiernik^{16, p.79} described family-focused services as the “neglected aspect of addiction treatment” and other researchers have stated that service providers view family members as ‘adjuncts’ and they are not perceived as an integral part of addiction treatment.^{17, p.1361} This creates a significant barrier to family involvement in addictions.^{17, 18}

The involvement of family members in routine addiction treatment has been documented as important for two important and interrelated reasons. First, as mentioned previously, families are negatively affected and family-focused services can help reduce

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2
3 the harm to individual family members and to the entire family unit.¹⁹ A second
4
5 compelling reason for involving families in addiction treatment is that family
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7 involvement increases treatment entry, enhances treatment completion, and is also linked
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9 with better treatment outcomes for the individual coping with the addiction.²⁰⁻²² This is
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11 relevant when considering the fact that only 20% (or fewer) of individuals with substance
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13 use disorders seek treatment²³ and among problem gambling individuals only 3–6 % seek
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15 professional treatment.²⁴ Among those who receive treatment, approximately 50% drop
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17 out of treatment and treatment completion is one of the factors most closely associated
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19 with positive treatment outcomes.^{25,26} Although studies have documented robust
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21 evidence when involving families in addiction treatment, most services target the
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23 individual with the addiction and there is little evidence of family-focused approaches in
24
25 addiction service provisions.¹⁴

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31 Addiction researchers have identified three categories of family interventions: 1)
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33 working with family members to promote the entry and engagement in treatment of the
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35 individual with the addiction, 2) involving family members in the treatment of the
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37 individual with the addiction, and 3) providing services to family members in their own
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39 right.^{15,19} There have been a number of studies on the first two categories and a paucity
40
41 of research on the services to families in their own right.¹⁵ However, the research on
42
43 family involvement is still limited overall with most studies focusing on specific family
44
45 members (e.g. spouses) or specific interventions. Moreover, to our knowledge there have
46
47 not been any scoping reviews on family involvement in both substance use and problem
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49 gambling treatment combined.²⁷ Disordered gambling is the only behavioural addiction
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51 in the DSM-5 and it is classified with substance use disorders due to their similarities in
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3 symptomatology.²⁸ There has been more robust research in substance use disorders and it
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5 is important to examine the breadth and depth in the research on both types of addictions
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7 to advance our understanding of family involvement and have a synthesis and analysis of
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9 existing family interventions. This scoping review will elucidate our understanding of
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11 gaps in service provisions and will be an important guide to developing best practices for
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13 families in addiction treatment.
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16 17 **Study Objectives**

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19 The objectives for this scoping review on family involvement and interventions in
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21 addictions are as follows:
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- 24 • Map and categorise the extent, range and nature of evidence available in peer-
25 reviewed and grey literature examining family interventions in substance use
26 disorders and problem gambling;
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- 29 • Identify gaps to guide future research, policy development and service provisions.
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33 34 **Methods and Analysis**

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36 We will conduct a scoping review to examine the literature on family involvement
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38 in addictions using a methodological framework developed by Arksey and O'Malley¹ and
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40 enhanced by Levac, Colquhoun and O'Brien.²⁹ A scoping review is suitable for this topic
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42 area as it is defined as “a form of knowledge synthesis that addresses an exploratory
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44 research question aimed at mapping key concepts, types of evidence, and gaps in research
45
46 related to a defined area or field by systematically searching, selecting and synthesizing
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48 knowledge.”^{30, p. 1292-1294} This method includes five stages: 1) identifying the research
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50 question, 2) identifying relevant studies, 3) study selection, 4) charting the data, and 5)
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52 collating, summarising and reporting the results. The aim of this review is for it to serve
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3 as a report that can guide the development of best practices for families in addiction
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5 treatment.
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7 8 **Stage 1: Identifying the research question**

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10 Scoping reviews comprise broad research questions as their aim is to synthesize
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12 breadth of evidence on a clearly identified area of inquiry.²⁹ Through consultation with
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14 our research team, we developed one broad research question: What are the family
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16 interventions or practices that have been implemented and examined in adult addiction
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18 treatment? Levac et al.²⁹ recommend that researchers define study concepts and target
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20 populations in scoping reviews. For this review, we define family broadly to include kin
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22 and significant others and this term also includes diverse family members or relationships
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24 including, but not limited to partners, spouses, siblings, friends, adult children and
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26 parents. The term addiction encompasses any substance misuse (alcohol or drugs), as
27
28 well as problem gambling. Interventions or practices include any method of involving
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30 family members in addiction treatment that has been implemented and empirically
31
32 examined. Treatment refers to any services for an adult coping with an addiction, for a
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34 family member coping with the addiction of a significant other, or services for the family
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36 unit when there is a family member with an addiction.
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42 **Stage 2: Identifying relevant studies**

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44 The comprehensive search strategy was developed in collaboration with the
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46 research assistants, the study's principal and co-investigators (TK and RA), and a health
47
48 sciences librarian. Relevant studies will be identified by searching the following
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50 electronic databases: MEDLINE, PsycINFO, and Social Services Abstracts. The search
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52 will cover 2000 – present. To ensure that the scoping review captures the breadth of
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literature, we will also hand-search reference lists of included studies, key journals, as well as websites of addiction related organisations including Canadian Centre on Substance Use and Addiction (CCSA), Gambling Research Exchange Ontario (GREO), Addiction and the Family International Network (AFINet), and Substance Use and Mental Health Services Administration (SAMHSA). A preliminary search conducted by the research assistant and reviewed by the primary investigator helped refine the search terms and protocol. All literature searches will be completed by a research assistant who will be supervised and guided by the primary investigator (TK). The search includes several terms that relate to these concepts: family, addiction, and practice (see Table 1).

Table 1: Search terms for the databases

Concept	Search terms
Family	famil* OR significant other* OR conjoin* OR sibling* OR spous* OR couple* OR partner*
Addiction	addict* OR abus* OR problem* OR misuse OR use* adj2 alcohol OR drug* OR substance OR gambl*
Practice	therap* OR counsel* OR psychotherap* OR psychoeducation* OR (famil* OR psychological OR addiction OR gambl* OR substance* OR alcohol* OR drug* OR group*) adj (interven* OR treatment* OR support OR help OR service*)

Stage 3: Study selection

We are following recommendations made by Levac et al.²⁹ and will use a transparent, iterative team approach to refine the search strategy and this will be an iterative process to finalise inclusion and exclusion criteria. The review process consists of two stages: first by screening of titles and abstracts and second by full-text screening. A research assistant will review using the selection criteria and will be supervised closely by the lead researcher. The research assistant will mark the selections under review with

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3 'include,' 'exclude,' or 'uncertain.' Levac et al.²⁹ noted that it is important to clarify the
4 process of decision making and we have determined that uncertainties will be discussed
5 with the lead researcher and a third investigator will be included when we cannot reach
6 resolution. The following inclusion criteria will be used to guide the search and will also
7 be used when reviewing articles: 1) study focuses on any type of family involvement or
8 intervention in addiction treatment for family members who have a significant other
9 coping with an addiction, 2) addiction includes alcohol, drugs and gambling at any level
10 of severity, 3) published or unpublished empirical studies that use quantitative,
11 qualitative or mixed methods, 4) written in English or French, and 5) between 2000 -
12 present. Exclusion criteria that have been identified are: 1) studies that focus on
13 addictions in children or adolescents <18 years of age, 2) literature reviews, and 3)
14 empirical studies that focus on the impact of addiction on family members, but do not
15 examine involvement of family members in treatment.
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32 33 **Stage 4: Charting the data**

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35 Our data will be charted and sorted according to key themes using a qualitative
36 thematic analysis approach,³¹ as well as a narrative summary method.¹ Charting will be
37 conducted by the research assistant and reviewed by the lead researcher. We will chart
38 extracted data using a data charting form on Excel. Following the recommendation of
39 Daudt et al.³² we will assign each paper an identifying number which will minimise
40 errors and facilitate tracking of included and excluded articles. We also followed the
41 recommendations by Levac et al.²⁹ to make charting an iterative process. The research
42 assistant did a preliminary extraction of 10 articles with some preliminary categories for
43 the chart and the charting was reviewed by the lead researcher. The research team
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3 discussed the themes and variables and updated the charting form. The themes and
4
5 variables that we will be charting include: author, title, peer reviewed or grey literature
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7 paper, country where study was conducted, research aims, methods, sample size,
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9 individual with addiction (if specified), family member (if specified), definition of family
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11 and family involvement (if provided), addiction type, intervention type, harm reduction
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13 or abstinence approach (if specified), and key findings.
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16 17 **Stage 5: Collating, summarising and reporting the results**

18
19 Levac et al.²⁹ suggest that this stage is divided in three distinct steps. With this in
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21 mind, our research team will follow these steps in the final stage of the scoping review:
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23 1) analyse extracted data using a numerical summary analysis and qualitative thematic
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25 analysis; 2) disseminate the results of the scoping review, and 3) discuss implications for
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27 future research, policy and practice.
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30 31 **Ethics and Dissemination**

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33 This paper presents the protocol for a scoping review of family practices in
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35 addiction treatment. Ethics approval is not necessary as the data is collected from
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37 publicly available sources. This review will advance knowledge on the ways family
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39 members are involved in treatment when a significant other has a substance use or
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41 gambling problem. The results will be disseminated through a peer-reviewed journal and
42
43 will also be reported at local, national and international conferences on addictions and
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45 mental health.
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3 **Contributions of authors:** TK contributed to the project idea and both TK and RA
4 provided guidance to the research assistant, and design of the search strategy. TK
5 contributed to the literature review and RA and TK contributed to the writing and editing
6 of the protocol. Both authors have made substantive intellectual contributions to the
7 development of this protocol. Both read and approved the manuscript.
8
9

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11 commercial or not-for-profit sectors.
12

13 **Competing interests:** There are no competing interests.
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16 **Data Sharing Statement:** The dataset is available by contacting the corresponding
17 author.
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Secondary Subject Heading:	Mental health
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38 ^{1,2}Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON,
39 Canada
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41 Corresponding Author:
42 Toula Kourgiantakis, PhD, RSW, RMFT
43 246 Bloor Street West
44 Toronto, Ontario
45 Canada M5S 1V4
46 416-978-4176
47 toula.kourgiantakis@utoronto.ca
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Abstract

Introduction: Families are significantly impacted by addictions and family involvement in treatment can reduce the harms and improve treatment entry, treatment completion and treatment outcomes for the individual coping with an addiction. Although the benefits of family-focused practices in addictions have been documented, services continue to have an individual focus and research on this topic is also limited. The objective of this study is to map the extent, range, and nature of evidence available examining family interventions in addictions and identify gaps to guide future research, policy and practice.

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- This scoping review will be the first to examine family-focused practices in both substance use and gambling adult treatment
- Inclusion criteria are broad (English and French, peer-reviewed and grey literature) and this will give the review breadth and comprehensiveness
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- Rigour will be enhanced through the use of a data charting form and a transparent, iterative, team approach

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Introduction

There are more than 29.5 million individuals worldwide who have a drug use problem¹ and 76 million people with alcohol use disorder.² More recently, there has been more research on behavioural addictions and studies show that problem gambling affects 0.12 – 5.8% of people across five continents.³ Substance use disorders and problem gambling are linked with multifarious consequences including health concerns,⁴ financial difficulties,^{5, 6} stigma, discrimination, and isolation.⁷ It is estimated that more than 50% of those seeking services for an addiction are also coping with mental illness⁸ and many studies have also found that the rates of suicidal ideation, attempts, and completed suicides are elevated for individuals with an addiction.⁹⁻¹¹ There is also an increasing awareness of the impact of addictions not only on individuals, but also on families. More than 100 million family members are affected by a relative's addiction.¹² The addiction of a family member has many adverse effects for families such as high levels of distress, health problems,^{5, 13} family conflict, domestic violence, child maltreatment,¹² and financial precarity.^{5, 6, 12} Studies also report that the health costs for family members coping with the addiction of a significant other are considerably higher than family members who do not have a family member with an addiction.^{5, 6} Despite the negative impact on families, addiction treatment has historically focused on the individual.^{14, 15} Csiernik^{16, p.79} described family-focused services as the “neglected aspect of addiction treatment” and other researchers have stated that service providers view family members as ‘adjuncts’ and they are not perceived as an integral part of addiction treatment.^{17, p.1361} This creates a significant barrier to family involvement in addictions.^{15, 17, 18}

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Addiction researchers have identified three categories of family interventions: 1)
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individual with the addiction, and 3) providing services to family members in their own
right.^{15,19} There have been a number of substance use studies on the first two categories.
For the first category a few studies have evaluated the Community Reinforcement
Approach and Family Training (CRAFT) intervention.²⁷⁻²⁹ The CRAFT program teaches
family members coping skills and also facilitates the entry of the PG individual in

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3 treatment.²⁹ The second category of family interventions has also been studied, but it
4 focuses on conjoint treatment and it has largely targeted spouses (e.g. Alcohol Behaviour
5 Couple Therapy (ABCT)).³⁰ The third category of family interventions focuses on
6 services given directly to families and it has received the least attention. While there
7 have been scant studies on the third category of family interventions, a group of UK
8 researchers have developed the Stress-Strain-Coping-Support Model aimed at reducing
9 the stress and strain to families and increasing support and coping skills.³¹ This approach
10 has been evaluated in a primary care setting and shows promising results.¹³ The SSCS
11 model has similarities to the family psychoeducation approach - an evidence-based
12 practice in mental health and a commonly used family approach for schizophrenia.³² The
13 family psychoeducation literature states that all interventions for families should include
14 the “Big Three.” The “Big Three” includes information about the addiction/mental
15 illness, coping skill development, and support from peers and professionals. Despite the
16 fact that there has been some research (notably in the first two categories), this is still
17 limited even though the benefits of family involvement and the adverse effects of
18 addictions on families have been documented. In light of the low rates of treatment
19 seeking and high rates of attrition from treatment for individuals with addictions, as well
20 as the pervasive adverse effects of addictions on families, it is critical that family-focused
21 services are available and accessible for all families. The robust research in mental
22 health has demonstrated that the “Big Three” (psychoeducation, support, and coping
23 skills) is an evidence-based practice.³² The SSCS model has similar tenets and practices,
24 but requires more research and implementation in policy and practice. Researchers have
25 attributed this neglect to “a consequence of the lack of a family orientation in
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3 professional training and practice, plus the existence of a number of models of family
4 functioning that cast family members in a negative light.”^{33, p. 22} To our knowledge there
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6 have not been any reviews on family involvement in both substance use and problem
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8 gambling treatment for adults.³⁴ Disordered gambling is the only behavioural addiction in
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10 the DSM-5 and it is classified with substance use disorders due to their similarities in
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12 symptomatology.³⁵ This scoping review will focus on all three forms of family
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14 involvement in substance use and gambling treatment to elucidate our understanding of a
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16 range of programs that promote family-focused treatment. It will also identify any gaps
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18 in service provisions, as well as barriers to implementation of family-focused practices
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20 that have been identified in the literature. This will be an important guide to help move
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22 towards best practices for families in addiction treatment. There are currently no clearly
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24 identified best practices and this scoping review can be used by both policy makers and
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26 clinical settings to develop policies and implement best practices in addiction treatment
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28 with various family-focused interventions.
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35 **Study Objectives**

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37 The objectives for this scoping review on family involvement and interventions in
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39 addictions are as follows:
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43 • Map and categorise the extent, range and nature of evidence available in peer-
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45 reviewed and grey literature examining family interventions in substance use
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47 disorders and problem gambling;
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- 50 • Identify recent family interventions in adult addiction treatment programs, as well
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52 as treatment gaps to guide future research, policy development and service
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54 provisions.
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Methods and Analysis

We will conduct a scoping review to examine the literature on family involvement in addictions using a methodological framework developed by Arksey and O'Malley³⁶ and enhanced by Levac, Colquhoun and O'Brien.³⁷ A scoping review is suitable for this topic area as it is defined as “a form of knowledge synthesis that addresses an exploratory research question aimed at mapping key concepts, types of evidence, and gaps in research related to a defined area or field by systematically searching, selecting and synthesizing knowledge.”^{38, p. 1292-1294} This method includes five stages: 1) identifying the research question, 2) identifying relevant studies, 3) study selection, 4) charting the data, and 5) collating, summarising and reporting the results. The aim of this review is for it to serve as a report that can guide the development of best practices for families in addiction treatment.

Stage 1: Identifying the research question

Scoping reviews comprise broad research questions as their aim is to synthesise the breadth of evidence on a clearly identified area of inquiry.³⁷ Through consultation with our research team, we developed one broad research question: What are the family interventions or practices that have been implemented and examined in adult addiction treatment? Levac et al.³⁷ recommend that researchers define study concepts and target populations in scoping reviews. For this review, we define family broadly to include kin and significant others and this term also includes diverse family members or relationships including, but not limited to partners, spouses, siblings, friends, adult children and parents. The term addiction encompasses any problematic substance use (alcohol or drugs), as well as problem gambling. Interventions or practices include any method of

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3 involving family members in addiction treatment that has been implemented and
4 empirically examined. Treatment refers to any services for an adult coping with an
5 addiction, problematic substance use or problem gambling.
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8 9 10 **Stage 2: Identifying relevant studies**

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12 The comprehensive search strategy was developed in collaboration with the
13 study's principal and co-investigators (TK and RA), a health sciences librarian at the
14 University of Toronto, and the research assistants who will help conduct the scoping
15 review. Relevant studies will be identified by searching the following electronic
16 databases: MEDLINE, PsycINFO, and Social Services Abstracts. The researchers
17 selected a cross-section of databases that include the range of literature spanning health
18 care, psychology, psychiatry, social work, and other social sciences. An initial scan of
19 several databases demonstrated that the databases selected were more likely to identify
20 results that are related to the focus of this scoping review. Other databases were not
21 included in this study because the initial scan resulted in thousands of results that were
22 not relevant to the scope of this study. However, to ensure that the scoping review
23 captures the breadth of literature, the research team will also extensively hand-search
24 various reference lists of included studies, key journals, as well as websites of addiction
25 related organisations including the Canadian Centre on Substance Use and Addiction
26 (CCSA), Gambling Research Exchange Ontario (GREO), Addiction and the Family
27 International Network (AFINet), and Substance Use and Mental Health Services
28 Administration (SAMHSA). The search will cover 2000 to present and this limited date
29 range was selected as we are interested in recent addiction treatment approaches
30 involving families in order for this to be most relevant for current treatment programs. A
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preliminary search conducted by the research assistant and reviewed by the primary investigator helped refine the search terms and protocol. All literature searches will be completed by a research assistant who will be supervised and guided by the primary investigator (TK). The search includes several terms that relate to these concepts: family, addiction, and practice (see Table 1).

Table 1: Search terms for the databases

Concept	Search terms
Family	famil* OR significant other* OR conjoin* OR sibling* OR spous* OR couple* OR partner*
Addiction	addict* OR abus* OR problem* OR misuse OR use* adj2 alcohol OR drug* OR substance OR gambl*
Practice	therap* OR counsel* OR psychotherap* OR psychoeducation* OR (famil* OR psychological OR addiction OR gambl* OR substance* OR alcohol* OR drug* OR group*) adj (interven* OR treatment* OR support OR help OR service*)

Stage 3: Study selection

We are following recommendations made by Levac et al.³⁷ and will use a transparent, iterative team approach to refine the search strategy and this will be an iterative process to finalise inclusion and exclusion criteria. The review process consists of two stages: first by screening of titles and abstracts and second by full-text screening. A research assistant will review using the selection criteria and will be supervised closely by the lead researcher. The research assistant will mark the selections under review with 'include,' 'exclude,' or 'uncertain.' Levac et al.³⁷ noted that it is important to clarify the process of decision making and we have determined that uncertainties will be discussed with the lead researcher and a third investigator will be included when we cannot reach resolution. The following inclusion criteria will be used to guide the search and will also

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3 be used when reviewing articles: 1) study focuses on any type of family involvement or
4 intervention in addiction treatment for family members who have a significant other
5 coping with an addiction, 2) addiction includes alcohol, drugs and gambling at any level
6 of severity, 3) published or unpublished empirical studies that use quantitative,
7 qualitative or mixed methods, 4) written in English or French, and 5) from 2000 onward.
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14 Exclusion criteria that have been identified are: 1) studies that focus on addictions in
15 children or adolescents <18 years of age, 2) literature reviews, and 3) empirical studies
16 that focus on the impact of addiction on family members, but do not examine
17 involvement of family members in treatment.
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23 24 **Stage 4: Charting the data**

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26 Our data will be charted and sorted according to key themes using a qualitative
27 thematic analysis approach.^{39,40} This is a commonly used method for scoping reviews and
28 it involves identifying themes across the literature and synthesising using summary tables
29 with thematic headings.^{39,40} Charting will be conducted by the research assistant and
30 reviewed by the lead researcher. We will chart extracted data using a data charting form
31 on Excel. Following the recommendation of Daudt et al.⁴¹ we will assign each paper an
32 identifying number which will minimise errors and facilitate tracking of included and
33 excluded articles. We also followed the recommendations by Levac et al.³⁷ to make
34 charting an iterative process. The research assistant did a preliminary extraction of 10
35 articles with some preliminary categories for the chart and the charting was reviewed by
36 the lead researcher. The research team discussed the themes and variables and updated
37 the charting form. The themes and variables that we will be charting include: author, title,
38 peer reviewed or grey literature paper, country where study was conducted, research
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3 aims, methods, sample size, individual with addiction (if specified), family member (if
4 specified), definition of family and family involvement (if provided), addiction type,
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6 intervention type, harm reduction or abstinence approach (if specified), and key findings
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8 of the study. For key findings, we are specifically searching for a study's results on
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10 family involvement in addiction treatment.
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14 **Stage 5: Collating, summarising and reporting the results**

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17 Levac et al.³⁷ suggest that this stage is divided in three distinct steps. With this in
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19 mind, our research team will follow these steps in the final stage of the scoping review:
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21 1) analyse extracted data using a numerical summary analysis and qualitative thematic
22 analysis; 2) disseminate the results of the scoping review, and 3) discuss implications for
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24 future research, policy and practice.
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28 **Ethics and Dissemination**

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31 This paper presents the protocol for a scoping review of family practices in
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33 addiction treatment. Ethics approval is not necessary as the data is collected from
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35 publicly available sources. This review will advance knowledge on the ways family
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37 members are involved in treatment when a significant other has a substance use or
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39 gambling problem. The results will be disseminated through a peer-reviewed journal and
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41 will also be reported at local, national and international conferences on addictions and
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43 mental health.
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47 **Contributions of authors:** TK contributed to the project idea and both TK and RA
48 provided guidance to the research assistant, and design of the search strategy. TK
49 contributed to the literature review and RA and TK contributed to the writing and editing
50 of the protocol. Both authors have made substantive intellectual contributions to the
51 development of this protocol. Both read and approved the manuscript.
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Data Sharing Statement: The dataset is available by contacting the corresponding author.

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