**Review protocol**

**Title**

Protective factors of mental health in children of parents with alcohol and drug use disorders - a systematic review

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**Background**

Children of parents with drug and alcohol use disorders often grow up under severe stress and are at greater risk to develop psychological and social problems. However, a substantial proportion of affected children adapt to their distressing life conditions and show a positive development of mental health. These children are described as resilient. A difference between resilient and maladapted children is the presence of protective factors. Research on resilience in children faced with parental drug and/or alcohol abuse is very important as it can inform intervention programs designed to mitigate the negative effects.

**Objective**

1. What are the protective factors in children of parents with alcohol or drug use disorder that enhance the children’s mental health outcome?

**Work plan**

* P – Population: Children of parents with drug or alcohol use disorders
	+ Definition Children: all children with a mean age of ≤ 21 years that are in contact with their alcohol or drug using parent
	+ Definition Parent: at least one parent that currently or in the past has had a substance-related abuse or dependence with legal and/or illicit drugs (NOT: tabbaco addiction/ behavioral addictions, e.g. pathological gambling)
	+ Umgang mit komorbiden Störungen: Einschluss nur wenn klare Trennung in den Ergebnissen
* I – Intervention: no intervention study
* C – Comparator/Control
	+ Children with mental health problems
	+ Children without protective factors
* O – Outcome
	+ Protective factors of children’s mental health outcomes
	+ Children’s mental health: mental and social functioning, internalizing and externalizing problems, mental health disorders, mental health problems, drug and alcohol use disorders
	+ Assessment was performed by the means of a standardized instrument that allows a valid and reliable assessment
* Studiendesign
	+ Observational studies
		- retrospective and prospective cohort studies
		- cross-sectional studies
		- case-control studies
		- no intervention studies

**Search strategy**

* Electronic databases: PsychInfo, PubMed, ISI Web of Science, CINHAL
* Period: January 2000 – January 2017

**Search terms**

* *Protective Factor* (protective factor\* OR resilien\* OR coping) AND
* *Children* (child\* OR infant\* OR offspring\* OR adolescent\* OR son\* OR daughter\*) AND
* *Parents* (parent\* OR mother\* OR father\* OR maternal OR paternal) AND
* *Substance* (substance\* OR drug\* OR alcohol\* OR opioid\* OR amphetamine\* OR cannabis\* OR sedative\* OR tranquilizer\* OR cocaine\*OR hallucinogen\* OR heroin\* OR hypnotic\*OR marijuana OR psychedelic\* OR phencyclidine OR narcotic OR illicit drug\* abus\* OR misuse OR dependence OR substance disorder OR addiction)

**Study selection**

**Table 1. Inclusion criteria (IC).**

|  |
| --- |
| Preselection |
| IC 0 | (1) the study is concerned with children of addicted parents and (2) the children, not the parents, are central in the study. |
| Outcome: Association between at least one protective factor and child’s mental health |
| IC 1 | Protective factor: at least one factor is examined that protects or strengthens … |
| IC 2 | … the child’s mental health (mental and social functioning) |
| Population: children of families in which at least one parent has an alcohol or drug use disorder (NOT: specially strained samples, e.g. war, flight, physical impairment/disease, mental disability, child abuse, drug use during pregnancy) |
| IC 3 | Children: all children and adolescents with a mean age of ≤ 21 years that are in contact with |
| IC 4 | Parents: at least one parent that currently or in the past has had a substance-related abuse or dependence with legal and/or illicit drugs (NOT: tabbaco addiction/ behavioral addictions, e.g. pathological gambling) |
| IC 5 | Is the study population of the control group (case-control-studies) or the initial population (cohort studies) made up with children with lower levels of mental health and … |
| IC 6 | … children with lower levels of examined protective factor. |
| Publication |
| IC 7 | Is the study original, empirical research published in a peer reviewed journal (NOT: dissertations, congress contribution) |
| Study design |
| IC 8 | Is the design of the study one of the following: |
|  | (retrospective or prospective) cohort study? OR: |
|  | Case-control study? OR: |
|  | Cross-sectional study? |
|  | NOT: intervention studies |
| Diagnostics |
| IC 9 | Parents: Was formal diagnostics for a substance abuse disorder or addiction performed in accordance with DSM-III, DSM-IV, DSM-IV-TR, ICD-9, ICD-10, RDC OR by the means of an instrument that allows a valid and reliable diagnosis OR by the applicaion of an urine test OR based on the long term use of a substance with a high addictiveness (e.g. heroin, methamphetamin) OR was the sample recruited from bigger longitudinal or interventional studies evalueting the effectiveness of addiction treatments? (NOT: Parental diagnosis based only on children’s perspective) |
| IC 10 | Children: Was the assessment of the child’s mental health performed by the means of a standardized instrument that allows a valid and reliable assessment? |

**Table 2. Assessment of the methodological quality of included studies.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| External validity | YES | NO | UNCLEAR | NOT APPLICABLE |
| 1. | Are the study participants representative of the population under study?  | (+) | (-) | (0) | (/) |
| Measurement bias |
|  | Were valid and reliable measurement used to assess: |
| 2. | … protective factors? | (+) | (-) | (0) | (/) |
| 3. | … parental drug abuse disorder or addiction? | (+) | (-) | (0) | (/) |
| Attrition bias (cohort studies) |  |  |  |  |
| 4. | Were the drop-out rates in both groups acceptable (≤ 20%)? | (+) | (-) | (0) | (/) |
| Selection bias (case-control-studies) |
| 5. | Were participants in both groups comparable with respect to possibles confounders? | (+) | (-) | (0) | (/) |

**Table 4. Methodological quality of the included studies.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First author (year)** | **External validity:****representative sample** | **Measurement bias: valid & reliable measurement of**  | **Case-control-studies - selection bias: comparable study groups** | **Cohort studies – attrition bias:** | **Quality assessment** |
| **protective factors** | **child mental health outcome** | **Similar drop-out rates in both groups** | **No systematic differences between completers & drop-outs** | **High – medium - low** |
| Brook (2003) | (0) | (+) | (+) | (/) | (/) | (/) | High |
| Conners-Burrow (2012) | (0) | (+) | (0) | (/) | (0) | (0) | Medium |
| Edwards (2006) | (+) | (+) | (+) | (/) | (+) | (+) | High |
| El-Sheikh (2003) | (0) | (+) | (+) | (/) | (0) | (0) | High |
| Heitzeg (2008) | (0) | (+) | (0) | (+) | (/) | (/) | Medium |
| King (2004) | (+) | (+) | (+) | (/) | (+) | (+) | High |
| McCauley Ohannessian (2010) | (0) | (+) | (+) | (/) | (+) | (+) | High |
| Peleg-Oren (2008) | (0) | (+) | (0) | (/) | (0) | (0) | Medium |
| Pilowsky (2004) | (0) | (+) | (0) | (/) | (0) | (0) | Medium |
| Sheridan (2011) | (0) | (-) | (0) | (/) | (0) | (0) | Low |
| Yau (2012) | (0) | (+) | (+) | (/) | (0) | (0) | Medium |

*Note*. (+) criterion fulfilled; (0) missing information/not clear; (-) criterion not met; (/) not applicable



**Fig. 1. Flowchart of information through the different phases of the systematic review.**