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Alcoholism & Addiction: Genetics, Brain Chemistry (Working & Not Working), and Brain Healing

EVIDENCE BASED PRACTICES (EBP): Integrated System of Care; Universal Dual Diagnosis Capabilities; Principles of Empathy and Hope; Motivational Interviewing Approach; Stages of Change Model Design; Strength Based; Skill Building; Solution Focused; Neurochemistry Based Disorders of the Brain; Symptom Identification; Symptom Management; EBP Curriculum Topics, i.e. Nutrition, Stress Management, Cognitive Behavioral, and more...

Consistency in the Group Setting

The importance of *consistency* in a treatment setting can't be overstated. This is especially true when people are placed in vulnerable situations. *Inconsistency* can, at best, increase uncertainty and insecurity for the person receiving services. At worst, unpredictability can create a sense of helplessness while simultaneously decreasing a person's development of self-reliance. In fact, all human beings benefit from a dependable approach in the treatment of chronic disorders. When a person learns they can rely on consistency, they are less stressed and more relaxed. Consistency in the group setting includes the group structure, psychoeducational material, and the approach.

Each agency or facility will have different requirements – such as group receipts or paperwork – however, consistency can still include a structure similar to the following:

- 1. Group members pick up: a. Clip Board, b. Paper, and c. Pencil/Pen as they enter the room.
- 2. Group facilitator picks up the group receipts from each person in the group, and/or the group facilitator passes out the sign-in sheet for the group members to sign.
- 3. Group facilitator provides a Positive Group Beginning, Consistent Psychoeducational Material, Consistent Approach, and a Positive Group Closure.

Psychoeducational Groups and Crisis Event Processing (when requested)

Notes to Facilitator(s):

- 1. The Basics, Second Edition meets the definitions and goals of Psychoeducational Groups, Skill Building Groups, and Cognitive Behavioral Groups.
- 2. Group participants who have become accustomed to Interpersonal Processing Groups as well as staff who have facilitated them may find it a challenge to now facilitate Psychoeducational Groups.
- 3. Likewise, facilitators who may have followed a more lecture-style education presentation, may find it challenging to now devote at least 1/3rd of group time to specific topic discussions and interactions.
- 4. Both types of groups (Interpersonal Processing Groups and Psychoeducational Groups) are extremely important, yet each has different goals and structure.
- 5. The structure of Psychoeducational Groups, Skill Building Groups, and/or Cognitive-Behavioral Groups in no way means that there will not be *interaction* far from it. It just means that the interactions, discussions, and exercises will be about the topic(s) of each group.
- 6. Facilitators may or not still want to allow time in each group for the group member(s) to discuss a crisis that may have occurred since the last group.
- 7. We do know, of course, that *every* person in group is typically experiencing many challenges each and every week; however, most of these incidents are often best resolved in ways other than group time where the event does not pertain to every group member.
- 8. Suggested responses to a challenge, problem, or crisis can also include suggesting the person contact their primary care provider; schedule a 1:1 appointment; reschedule their next 1:1 to an earlier time; or, meet with the facilitator after group to explore options and develop a plan.
- 9. A facilitator would, of course, not "grade" an event as being worthy or not for group time. If a person requests individual time in the group, then that would be accepted as valid and time allotted at the end of the group.
- 10. Over time, the group begins to understand the differences between a situation, a challenge, a problem, or a crisis and can make decisions to utilize group time or continue with the current psychoeducational topic.

Prepare Professionals

Suggestions for professionals to prepare themselves for group typically includes:

- 1. Review all content material, appendices, and/or handouts *prior* to group to avoid a lecturing style.
- 2. Decide beforehand the *key points* to be covered in each group to produce flexibility for group responses, discussions, or questions.
- 3. Gain an overall understanding of the content so summarizing is possible in order to create an interactive facilitation style.
- 4. Determine the group structure to achieve the essential balance between education and discussions.
- 5. Check group room to be sure there are enough clipboards, pencils or pens, and markers or chalk for the board.
- 6. Make enough copies of any handouts *before* group.
- 7. Write any group content on the board *prior* to the beginning of group whenever possible.

Master Guide & Master Tips to Professionals

Note: <u>The Master Guide</u> (located at the beginning of Volume I & II) and the <u>Master Tips to Professionals</u> (located at the back of Volume I) have many topics to assist in the group process like Master Tip #39: Suggestions For Managing Handouts For Groups (pages Master Tips 64-67). Other tips include:

- 1. Master Guide: Interactive Style (pages Master Guide 10-11)
- 2. Master Tip #1: Suggestions for Beginning Group (pages Master Tips 1-4)
- 3. Master Tip #3: Empathetic Treatment Approach (pages Master Tips 7-9)
- 4. Master Tip #4: Promoting Hope (page Master Tips 9)
- 5. Master Tip #5: Maintaining a Consistent, Nonjudgmental, and Positive Attitude (pages Master Tips 10-13)
- 6. Master Tip #12: Responding to Requests for Copies of Appendices (pages Master Tips 27-29)
- 7. Master Tip #13: Depth of Psychoeducational Content (pages Master Tips 29-30)
- 8. Master Tip #14: Group Closure Suggestions (pages Master Tips 30-31)
- 9. Master Tip #16: Motivational Interviewing (pages Master Tips 31-32)

Present Curriculum/Topic

- 1. It is extremely important that each group participant leave every group with more Psychoeducation than they came in with which may also include discussing a "familiar topic" yet with a "present-day" focus. Psychoeducational Groups are designed to provide education about all areas related to the management of Substance Use Disorders and Psychiatric Disorders. Psychoeducational Groups are not Interpersonal Processing Groups even though interaction and processing the particular *psychoeducational topic(s)* is essential to individualizing the topic(s) or skill(s) presented.
- 2. It is recommended that a minimum of 1/3rd of group time be devoted to interaction (therapeutic counseling *topic* discussions). This can be accomplished depending on the individual style of the group facilitator(s) by any "present education-interact/discuss present education-interact/discuss" combination while still structuring the group to include the curriculum/topic education to be covered.
- 3. The presentation of material will, of course, be modified by the facilitator to match the functioning skills of group participants. It is important to note, however, that *The Basics, Second Edition* was written in a conversational language while taking into consideration a wide-range of symptom acuity and severity. Persons with co-occurring psychiatric and substance disorders benefit from learning about their disorders and how to manage them, as do all individuals with any chronic disorder(s). Each group participant will retain what is meaningful to them at the present time.

Group Beginning Suggestions

A positive group beginning (and ending) is extremely important. There are many ways to begin (and end) a group in a positive way. Suggestions to choose from can include:

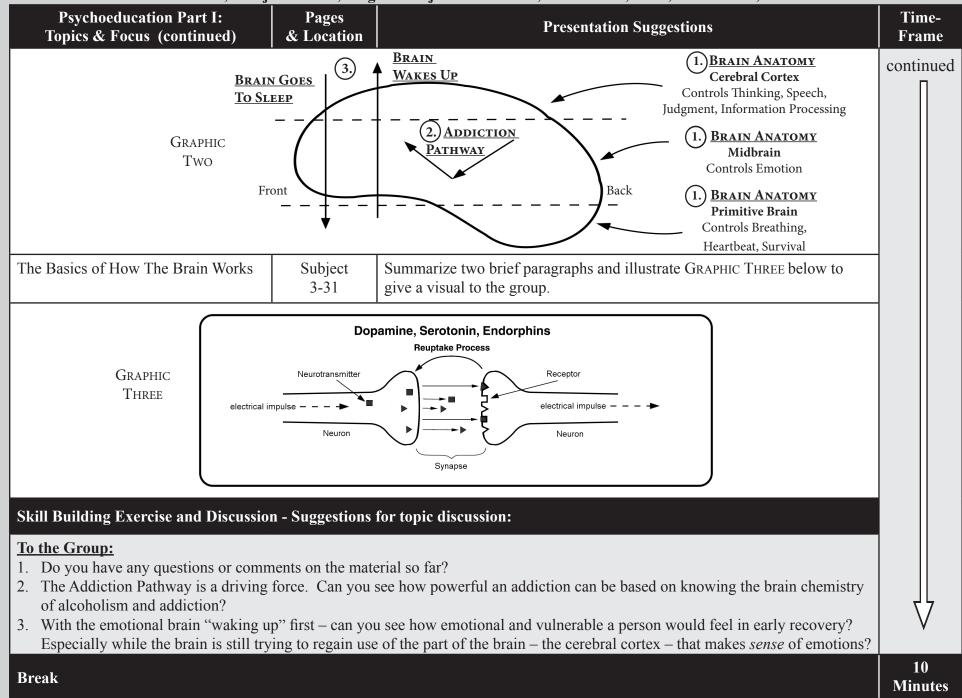
- 1. Reading the Thought For The Day from a meditation book. (Note: Meditation books that also contain an index at the end of the book such as *Easy Does It* are helpful in choosing a specific reading that matches the topic(s) presented in group like Self-Esteem.), or
- 2. Reading an inspirational or humorous curriculum handout from The Basics, Second Edition, or
- 3. Practicing a deep breathing or a stretching exercise, or
- 4. Sharing of one thing that each person is grateful for today, or
- 5. Sharing of one positive thing that he/she did that contributed to their recovery in the past few days, or
- 6. Reading an AA Slogan with a brief explanation or AA/NA/Dual Recovery inspirational reading.
- * Recommended Beginning: Breathing Exercise (located on page Master Tips 3)

Practice Curriculum/Topic

Practicing subject material is the best way participants can internalize and personalize the curriculum content. Practice includes the group interactions, worksheets, exercises, handouts, and content discussions.

Based on a 2-Hour group: Two 50 minute segments						
Group Beginning						
Positive group beginning (suggestions are located on the previous page).	5 Minutes					
 Brief Group Introductions: (Note: The <i>interactions</i> in a psychoeducational group are discussions about the <i>topics</i>, not interpersonal processing or case management questions which do not apply to the entire group.) Ask the group members to tell the group their name. Welcome any group members who are new to this group or phase. Crisis Processing (when requested and optional): Ask the group if anyone has experienced a crisis since their last group, and if they need/want additional time in this group to discuss it, i.e. what happened, how they managed the crisis, and/or explore options and develop a plan. Let the person(s) know that you will allow time at the end of this group for them to share their experience and receive support from their fellow group members. 	10 Minutes					
Summarize Introduction of the Group Topic and Why It's Important (page Subject 3-15): There has always been an ongoing discussion as to whether addiction is primarily influenced by a person's <i>heredity</i> or by their <i>environment</i> . This is known as the old "nature versus nature" debate. For many years it appeared that Substance Disorders were predominately influenced by the environment. Since addiction runs in families, it was mistakenly thought that the children growing up in a home where alcoholism went untreated had learned these drug-using behaviors from their parents. It was also thought if these children had grown up in a <i>non</i> -alcoholic home they would have learned to cope with life in a healthier non-using way.	5 Minutes					
Everyone enters life with different levels of vulnerability to specific illnesses. Some people are vulnerable to diabetes, some to heart disease, some to cancer, and some to Substance Dependence. This does not mean a person is actually predestined to develop alcoholism or addiction; predisposition means increased <i>risk</i> not <i>certainty</i> . Knowing something about the levels of vulnerabilities and risks gives a person the opportunity to take steps to minimize the chances of developing the "family disease (Schuckit, 2000)."						
The factors that account for the majority of the risk are genetic differences. A combination of other causes – such as social, environment, culture, and individual factors – interact with genetics to make up the final levels of risk. This means the differences between people who <i>do</i> develop chemical dependency and people who <i>do not</i> is determined primarily before birth. Today we will discuss an overview of alcoholism and addiction genetics, brain chemistry, and brain healing.						

Volum	e 1, Subject Three	, Tages. Subject 3-10 – 3-17, 3-30 – 3-32, 3-37, 3-41 – 3-42, 3-73				
Psychoeducation Part I: Topics & Focus	Pages & Location	Presentation Suggestions				
Adoption Studies	Subject 3-16	Summarize one paragraph.				
Results of Adoption and Twin Studies	Subject 3-16 – 3-17	 Very briefly summarize the information in the first three paragraphs. Discuss only enough to be able to explain GRAPHIC ONE below. Summarize the two remaining paragraphs. 	- Minutes			
	PARENTS Father Child 40-60% inherited Risk	ADOPTION STUDIES Child Adopted within One Week of Birth Instead of the child having a 10% risk for alcoholism, found in children whose parents are not alcohol-dependent, the children carried the much greater chance of 40-60% for developing alcoholism based on inherited risk. ADOPTIVE NON-ALCOHOL DEPENDENT PARENTS Mother Father Child 40-60% inherited Risk				
Overview of Brain Functions (Note To Facilitators: Pages of where to locate the expanded versions of these topics is provided on the right. However, there's no reason to refer to those pages since the brief summary is included in this group.)	1. Basics of Brain Anatomy: (Subject 3-30) 2. Addiction Pathway: (Subject 3-33) 3. Brain "Goes To Sleep" & "Wakes Up:" (Subject 5-11 - 5-12)	Only a very brief review of this information can be covered in the time allotted in this group. You can give a visual for the three important parts of brain chemistry described below using Graphic Two on the following page. 1. The basics of Brain Anatomy: Top Brain = Thinking; Midbrain = Emotion; Lower Brain = Survival. Located in every human being's brain. 2. The Addiction Pathway location in the brain ("V" in the middle). Located in a person who develops alcoholism or drug addiction. 3. The brain "Goes to Sleep" from the top-down (arrow down.) The brain "Wakes Up" from the bottom-up (arrow up) resulting in the "emotional brain waking up" before the judgment center. The judgement center (Top Brain) is what makes sense of the emotions. This brain process occurs in the early phase of Substance Dependence recovery.				



,		, y			Subject 5 10 5 17, 5 t	50 – 5-52; 5-59; 5-41 – 5-42; 5	Time-Fr	ama	Time-Frame
Psychoeducation Part II: Pages Topics & Focus & Location		Presentation Suggestions			with Cr Process	isis	without Cris Processing		
Neurotr the Add (Note: Th	ed (Working) cansmission Activity In- lictive Process his exact Table One is not a ion of this particular materia	ctually found		fun the	ctions as shown below in brain is working (first three	erly working neurotransmission TABLE ONE and the results when the columns only.) Tables in the curriculum for the brief	15 Minut	tes	20 Minutes
	Neurotransmitter		Function GAs Intende	.D)	RESULTS IN	Now Disruptions Produce (Not WorkingAs Intended)			
	Dopamine	Rewar	d and Pleasure		Sense of Well-Being	Inability to Experience Pleasure; Depression			
	Norepinepherine		Arousal		Energy; Motivation; Drive	No Energy; No Motivation; No Drive			
Table One	Serotonin	Emotional Stabilizer			Rational Emotions; Self-Esteem	Irrational Emotions; Depression; Irritability			
	GABA	Stress	Management		Tranquilizer; Calmness	Insecurity; Panic; Fearfulness; Anxiety			
	Endorphins	Physical 1	Pain Managem	ent	Moderates Physical Pain; Feelings of Pleasure	Depression; No Adequate Pain Management			
	Enkepalins	Emotional	Pain Managen	nent	Moderates Emotional Pain; Completeness; Adequacy	Emotional Stress; Feeling Unworthy; Unfulfilled			
]	Psychoeducation Part Topics & Focus	II:	Pages & Location		Presentatio	on Suggestions			
				primarily caused by disru the brain when the brain i As a person continues to u disruptions increase.	nd Psychiatric Disorders are ption of neurotransmission in s not working as intended. use alcohol and other drugs, the ruptions of neurotransmission in in the last column.				

Time-Frame Time-Frame Skill Building Exercise and Discussion - Suggestions for topic discussion: with Crisis without Crisis **Processing Processing** To the Group: 1. Can you see how almost *easy* and natural it is for a person to feel "whole" if their brain chemistry is *working* in the way it was intended to work? continued continued 2. There are *differences* in the brain of a person – even before they begin using – who later develops Substance Dependence or Psychiatric Disorders – even before symptoms become noticeable. 3. Do you relate or experience any of the results of these disruptions in neurochemistry like emotional stress, feeling inadequate, etc.? 4. Do you often blame yourself for these feelings? 5. Does it help to know that these results are actually symptoms of neurotransmission disruptions or the brain *not* working as intended? 6. Does it help to know that the brain heals in recovery from Substance Use Disorders and Psychiatric Disorders and that you can change these disruptions through continued recovery and specific activities that contribute to brain healing like healthy nutrition? Time-Frame Time-Frame **Psychoeducation Part II: Pages Presentation Suggestions** without Crisis with Crisis **Topics & Focus** & Location **Processing Processing** Subject 1. Research studies have established that the *primary* cause of If Addiction Is Inherited – Exactly What Is Inherited? addictive disorders is biological due to inherited predispositions or 3-41 differences in brain chemistry in approximately 15% of the Note to the Facilitator(s): 15 20 population. 1. Additional information is located in **Minutes** Minutes 2. The brain chemistry differences between people who do develop an pages APPENDIX III-67 – III-84, yet is not addictive disorder and those who do not show up prior to use, required to refer to the APPENDIX for this during use, and for a while after use has stopped. brief summary. 3. A summary of a few of these differences are discussed in TABLE 2. This exact TABLE Two below and on Two below and on the next page: the next page is not actually found in 4. Mention as many examples from Table Two below and on the next THE BASICS. This table is a combination page as time allows. of several sections for brief presentation of this particular material for this group. TABLE 1. Elevated levels of anxiety in response to non-stressful and stressful situations. Inherited **Pre-Using** 2. Elevated stress hormones, pulse rate, and fight-or-flight reactions. Two Differences 3. Lower baseline levels of serotonin, dopamine, and endorphins ("feel good" chemicals). 4. In other words, individuals who have this brain chemistry typically respond to most situations in Brain Chemistry with very stressful or anxious reactions. They also typically don't feel good about themselves, whether stressed out or not.

Topi	ychoeducation Part II: ics & Focus (continued)	Pages & Location	Presentation Suggestions	Time-Frame with Crisis Processing	Time-Frame without Crisis Processing
TABLE Two (continued Using Differences in Brain Chemistry	 Exceptionally rewarding rest Significant increases in endoother drugs. Lower levels of cortisol active consequences or problems of the incomplex of the in	orphin levels and vity that results in related to addiction ntoxicating effect aptation" which AO results in indicate environments of more of the sully get "high" with now has a mind on whether the p	n feeling less threatened or stressed about the on.	continued	continued
Inherited Post-Using Differences in Brain Chemistry	 Brain "down-regulates" to a Withdrawal symptoms resu Post abstinence symptoms resu Between the discomfort of A 	"new level" of evel It in physical and make it more diff Acute Withdrawa			
To the Group 1. Do you ha 2. Approximation is a difference 3. Let's look a. This poor	ately 15% of the population developments in brain chemistry <i>before</i> they at the picture this paints:	ops an addiction with use, during use about themselve	or dependency to alcohol and other drugs because there	V	V

Skill Building Exercise and Discussion - Suggestions for topic discussion:	Time-Frame With Crisis Processing Processing	
 To the Group: (continued) b. When that person uses alcohol and other drugs, the substances "fit" into the brain in such a way so the person now feels much <i>less</i> stressed, much <i>more</i> confident, and totally "whole" or <i>complete</i> for the first time. c. With continued use the brain begins to create a new level that makes it almost impossible to feel good <i>with</i> or <i>without</i> substances – yet a person continues to try to seek relief by continuing to use even though they no longer reach the earlier feelings of euphoria. 4. That's a terrible place to be!! 5. Given this specific brain chemistry – it makes perfect sense that a person <i>uses</i>, <i>continues</i> to use, and uses <i>in spite of</i> all the consequences – and that's what alcoholism and addiction is all about. 6. Even though recovery is difficult and challenging, millions of people have successfully walked the path of recovery if they don't give up! So, remember, don't give up!! To the Facilitator(s): To end on a positive and hopeful note it's very important to leave enough time to summarize the following information: The Brain Can Heal With Your Help – and Subject Summarize important points of five paragraphs. With Time Subject Summarize important points of five paragraphs. Summarize important points of	continued	
Crisis Processing	Time-Frame	
 Ask the group member(s) to tell the group what happened. Explore options and/or develop an immediate plan for coping. Allow the group to offer support. 	10 Minutes	
Group "Paper Work"	Time-Frame	
Group participants fill out Group Notes.	5 Minutes	
Group Closure	Time-Frame	
 Ask each group member to share one thing they are grateful for in their recovery today, or Ask each person to share what one thing they will do this week to strengthen their recovery, or Ask each group member to compliment themselves out loud for the hard work they are doing as their brain and body heals – like "I'm doing good!" "I'm proud of myself today!" etc., or Remember, showing up for group is an excellent choice and deserves praise. You can even emphasize this by asking the group to give themselves a round of applause – well deserved for sure!!, or Read an inspirational reading of your choice for the day. 	5 Minutes	