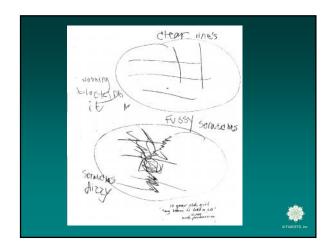
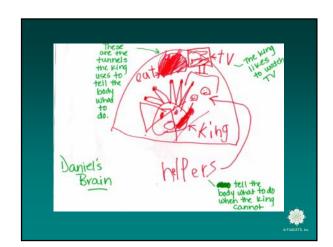
Creating Successful Accomodations for People with FASD: A brief introduction to a brain-based approach Diane V. Malbin, MSW FASCETS, Inc. Presented by Nancy Hall Lead facilitator and Co-Founder of FASCETS Canada East FASCETS FASCETS CANADA EAST CHARGE ACCOMMODATION CO.

Main Points:

- 1. FA/NB is an invisible, brain-based *physical* condition with behavioral symptoms
- 2. Primary, Secondary and Tertiary Characteristics of FASD
- 3. Overlapping Diagnoses
- 4. Creating Accmmodations
- Reframing behaviors and shifting from symptoms to source redefines problems and solutions in a manner consistent with research

1. Brain = Behaviors?





What did your brain have to do... to get you to this conference today?

Brain tasks	
What does your brain do for you every day? Plan, organize, abstract, predict	
Use language, communicate, comprehend Make decisions, manage money, plan time	
Multi-task, think fast, form links Manage emotions, negotiate	-
Adapt to changes, anticipate, evaluate	
Manage sensory systems	
	1
We do these things	
without thinking	
What if others' brains are unable to do these tasks?	
What if we are all different?	
What is we are normal for ourselves?	





•What's the brain got to do with it?

Neurobehavioral Foundation

What if brain function has something to do with behaviors?

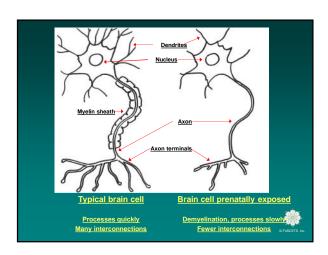
Logic model Is FA/NB a physical disability?

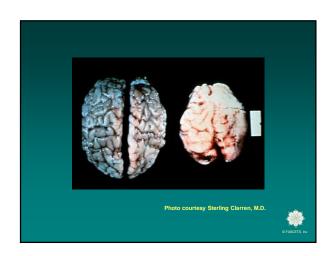
- 1. Alcohol, drugs and other teratogens kill cells, including cells in the brain
- 2. These causes changes in the physical structure, neurochemistry in the brain
- 3. FA/NB is usually *invisible*, therefore
- FA/NB is a brain-based physical disability; behaviors are often the only symptoms

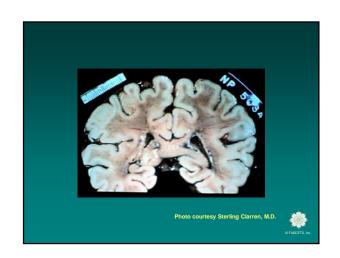


If FA/NB is an invisible physical disability

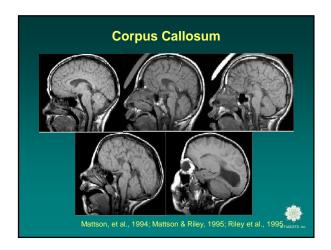
<u>Then</u> Providing accommodations for people with FA/NB is as appropriate and effective as providing accommodations for people with other physical disabilities











Key points about FASD

- 1. FAS = leading cause ID/DD in Western world
- 2. 90-100% FASD still not diagnosed
- 3. 1-3/1,000 = FAS (requires alcohol exposure days 18-21 of gestation)
- 4. 3-5% births =FASD in Western World
- 5. FASD with no facial features at greater risk
- 6. 80% of all people drink, 50-75% pregnancies unplanned
- 7. 16-35% of all pregnancies "at risk" (Jones)
- 8. Average IQ 74; range 20-130
- 9. Epigenetics research and prenatal paternal effects









Importance of Identification

- Pivotal: Identifies etiology and a brain-based physical condition
- Pivitol: Move from symptom to source
- Reframes the meaning of behaviors: From won't to can't
- Redefines the nature of the problem
- Redefines focus for interventions
- Eliminates shame and blame
- Key for healing and for prevention



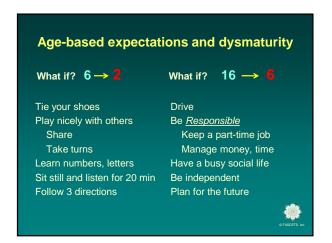
Neurobehavioral screening tool Common behavioral symptoms **Definition: Primary characteristics** Behavioral symptoms associated with differences in brain structure and function Strengths are also primary characteristics **Primary characteristics** 1. Developmental level of functioning 2. Sensory systems 3. Nutrition 4. Language and communication 6. Learning and memory 7. Abstract thinking 8. Executive functioning 9. Strengths

1. Developmental level of functioning

- 1. Social behaviors are like a person half their age
- 2. Prefers younger friends
- 3. Seen as "irresponsible" for their age
- 4. Interests and play are more like a younger person



Vineland Ch	nronological Age Mean	Developmenta Age Equivaler	
Adaptive behavior	16.6	9.1	
Communication Skills	16.6	9.0	
Daily Living Skills	16.6	10.1	
Socialization Skills	16.6	7.5	
PPVT Receptive Langu	uage 16.6	6.8	
		Source: Streissguth 19	





2. Sensory

- 1. Easily over stimulated, slow to settle
- 2. Highly sensitive to lights, sounds, smells
- 3. Over-sensitive to touch
- 4. Under-sensitive to touch
- 5. Doesn't seem to understand personal space, boundaries
- 6. Has trouble falling asleep or staying asleep



3. Nutrition

- 1. Can't eat some foods
- 2. Craves sugars or fats
- 3. Needs to eat often
- 4. Doesn't seem to know when hungry
- 5. Doesn't seem to know when to stop eating



4. Language and communication

- Talks better than understands, may be "off topic"
- 2. Confabulates, "fills in the blanks"
- 3. Has trouble putting words on feelings
- 4. Doesn't seem to understand, "just doesn't get it"
- 5. Has difficulty reading body language
- 6. Difficulty answering questions

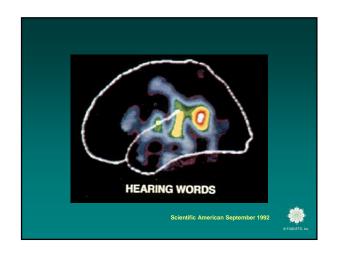


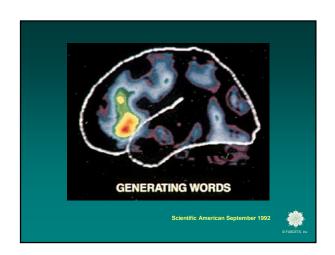
5. Processing pace

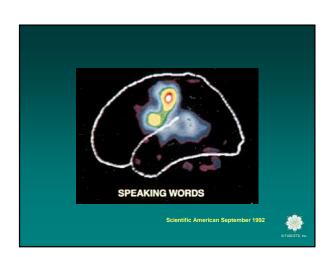
- 1. Listens slowly; often asks "What?" or says "I don't know"
- Thinks slowly; takes minutes to answer a question-- "Ten-second kids in a one- second world"
- 3. Slow halting speech
- 4. May only process every third word











6. Learning and memory

- 1. Poor short term memory; may do one step of three-step directions
- 2. Says one thing, does another, e.g., "Talks the talk, but doesn't walk the walk"
- 3. "On" and "off" days, "A" one day, "F" the next
- 4. Needs to be re-taught many times in order to learn
- 5. Difficulty generalizing: Learns a rule in one setting, may not be able to remember and apply it elsewhere
- 6. Has trouble remembering and learning from past experiences



7. Abstract thinking

- 1. Learning math is often hard
- 2. Making change or managing money
- 3. Often late, may have difficulty planning time, being on time for appointments
- 4. Difficulty predicting outcomes, seeing what's coming next
- 5. Making decisions may be hard



8. Executive functioning

- 1. Difficulty organizing and planning a day
- 2. Difficulty getting started or finishing multistep tasks
- 3. Setting goals and planning the steps to achieve them is hard
- 4. Gets "stuck"; has difficulty stopping doing something -- "can't let go" in an argument



8. Executive functioning

- 5. May have trouble transitioning
- 6. May become upset by unexpected changes in tasks, schedule or routine
- 7. May become upset by changes in the environment, e.g., desks or furniture moved
- 8. Impulsive, difficulty inhibiting responses



8. Executive functioning

- 9. Difficulty making links:
 - Hearing into doing
 - Seeing into writing
 - Thinking into talking
 - Talking into action: Talks the talk but doesn't walk the walk



Strengths and interests

Creative

Artistic

Musical

Mechanical

Athletic

Hard working, determined, persistent

Willing



Learning strengths

- Relational: 1:1
- Visual
- Auditory
- Hands-on
- Kinesthetic -- see, touch, move
- Experiential -- learns by doing
- Multimodal -- uses all senses



Poor fit = Problems

Fit between technique and ability Strategy example: Talking

Assumptions about Brain function:

Research on FA/NB has Found brain differences:

Store information.

Retrieve information.

Difficulty with memory
Porm associations.

Difficulty forming links
Difficulty forming links
Difficulty forming links
Difficulty generalizing
Predict.

Difficulty predicting
Conceptualize.

Gets piece, not picture
Process quickly.

Difficulty retrieving information



Definition: Secondary behavioral symptoms

Secondary defensive behaviors develop over time when there is a "poor fit"

Defensive behaviors are normal reactions to pain and are preventable.

Source: Ann Streissauth 1996



Secondary behavioral symptoms

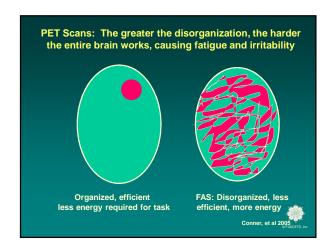
- 1. Fatigued, frustrated
- 2. Anxious
- 3. Angry
- 4. Shut down, avoidant, blaming
- 5. Poor self esteem
- 6. Isolated
- 7. Depressed



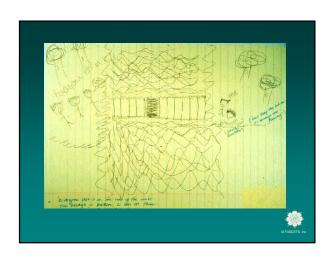
PET Scans: The better the brain is organized, the less energy is required to do the task

Organized, efficient less energy required for task

Conner, et al 200







Chronic Poor Fit = Patterns of Behaviours



Leading to Bigger Problems in Different Settings

Tertiary symptoms

Are the result of a chronic poor fit, anger, failure and alienation:

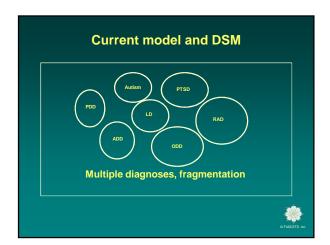
- Trouble in school
- Social services involvement
- · Involvement with justice
- Addictions/ mental health issues
- Homelessness

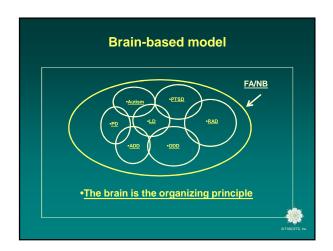


Overlapping Diagnoses



DSM 5: Critiques New DSM-5 Ignores Biology of Mental Illness Scientific American: 4/30/2013 "While DSM has been described as a "Bible" for the field, it is...a dictionary, creating a set of labels and defining each. The strength of each of the editions of DSM has been "reliability" — each edition has ensured that clinicians use the same terms in the same ways. The weakness is its lack of validity." "...symptom-based diagnosis, once common in other areas of medicine, has been largely replaced in the past half century as we have understood that symptoms alone rarely indicate the best choice of treatment." Thomas Insel, MD, Director NIMH 4/29/2013





Accumulation of DSM diagnoses: Short list

Primary characteristics

Attention Deficit Disorder Intellectual Disorder ICD (Intellectual Dev. Disorder ICD 11)
Language Disorder
Autism Spectrum Disorder

Secondary characteristics

Reactive Attachment Disorder Oppositional Defiant Disorder Post-traumatic Stress Disorder / Trauma Generalized Anxiety Disorder Personality Disorder



Invisible conditions and accommodations

"If my daughter had a missing leg, everyone around her would understand how humane it is to make accommodations."

Mother



Good fit: Accommodations

FA/NB Characteristic Strategy

Visual learner..... Provide visual cues Processes slower...... Allow adequate time Needs external support.. Provide supports Difficulty organizing...... Provide structure

Concrete..... Teach experientially, build on strengths

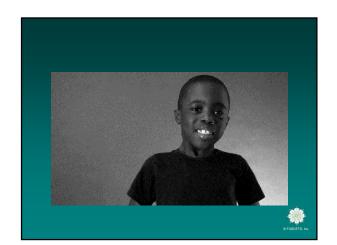


Examples of success

- Artist, musician
- Warehouse person
- Electrician
- Boat builder
- Mechanic
- Child care worker
- Animal rescue worker
- Drummer
- Dancer

- Office worker
- Special ed. teacher
- Counselor
- Massage therapist
- Truck driver
- Husband, wife
- Delivery person
- Parent
- Adult care worker







Brain trumps behaviors Application: Functional Neurobehavioral Assessment A systematic approach to developing person-specific accommodations in all settings and managing the complexity of FA/NB **Application: Functional Neurobehavioural Assessment** Setting:_ Age: ___ Developmental age: _

Applic	ation: I	Function	al Neuro	obehavio	oural As	ssessment
	Scho					ntal age: <u>3</u>
Environment: other changes Others:	History (pat , transitions)	tterns, loss, tra) instruction m	uma, success ethod (pace)	/failure), settir	ng (people, s	sensory, schedule/
1 Task or Expectation	2 Brain has to	3 Primary symptoms FA/NB	4 Devel. Age (estimate)	5 Secondary behaviours	6 Strengths	7 Accommodations
listen						
						264
						© FASCETS, Inc.
Setting	Scho	ool	Age	: <u>6</u> Dev	elopmer/	ssessment ntal age: 3
1 Task or Expectation	2 Brain has to	3 Primary symptoms FA/NB	4 Devel. Age (estimate)	5 Secondary behaviours	6 Strengths	7 Accommodations
Sit still and listen	Process fast, filter stimulus,	TAND				
						
						© FASCETS, Inc.
Applic	ation: I	Function	al Neuro	obehavio	oural As	ssessment
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other changes Others:	, transitions)) instruction m	ethod (pace)	vialiure), settir	ig (people, s	ensory, scriedule/
1 Task or Expectation	2 Brain has to	3 Primary symptoms FA/NB	4 Devel. Age (estimate)	5 Secondary behaviours	6 Strengths	7 Accommodations
Sit still and listen	Process fast, filter stimulus,	Slow processing pace				
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Applic	ation:	Function	al Neuro	obehavio	oural A	ssessment
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Sit still and listen	Process fast, filter	Slow processing	3			
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1	2	3	4	5	6	7
Task or Expectation	Brain has to	Primary symptoms FA/NB	Devel. Age (estimate)	Secondary behaviours	Strengths	Accommodations
Sit still and listen	Process fast, filter	Slow	3	Frustration		
listen	stimulus,	processing pace				
						20%
		<u> </u>				© FASCETS, Inc
Applic	ation:	Function	al Neur	obehavio	oural A	ssessment
Setting	:Sch	nool	Age	: <u>6</u> Dev	/elopmer	ntal age: 3
Environment:	History (pat	tterns, loss, tra	uma, success	/failure), setti	ng (people,	sensory, schedule/
Others:	s, transitions) instruction m	ethod (pace)			
1 Task or	2 Parin has	3	4 David Ass	5 Secondary	6 Strengths	7
Expectation	Brain has to	Primary symptoms FA/NB	Devel. Age (estimate)	behaviours	Strengths	Accommodations
Sit still and listen	Process fast, filter	Slow	3	Frustration	Visual learner	
	stimulus,	pace				
						49
						747

		.baal		. 6 5	olanı.	tal again	
Setting: School Age: 6 Developmental age: 3 Environment: History (patterns, loss, trauma, success/failure), setting (people, sensory, schedule/							
other changes Others:							
1 Task or Expectation	2 Brain has to	3 Primary symptoms FA/NB	4 Devel. Age (estimate)	5 Secondary behaviours	6 Strengths	7 Accommodations	
Sit still and listen	Process fast, filter	Slow processing	3	Frustration	Visual learner	Provide visual cues, use fewer	
	stimulus,	pace				words, ask for what might help	
						46	
						© FASCETS, In	
Applic	ation:	Function	al Naur	obebavio	oural A	ssessment	
Applic	ation.	i unction	iai Neur	DDEIIAVIC	Julai As	336331116111	
Setting:	Sch	nool	Age	e: <u>6</u> Dev	elopmer/	ntal age: 3	
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other changes Others:	, transitions	i) instruction m	ethod (pace)				
1	2	3	4	5	6	7	
Task or Expectation	Brain has to	Primary symptoms FA/NB	Devel. Age (estimate)	Secondary behaviours	Strengths	Accommodations	
Sit still and	Process	Slow	3	Frustration	Visual	Provide visual	
listen	fast, filter stimulus,	processing pace			learner	cues, use fewer words, ask for what might help	
	Develop	Dysmaturity	3	Isolation	Willing,	Adjust	
Be age-	"on time"	, , , , ,		depression	relational	expectations: "stretch toddler"	
Be age- appropriate	On time			Anger,	Learns by		
appropriate Sit and	Ability to	Concrete,	2			Hands-on	
appropriate		difficulty with	2	frustration, avoidance	doing, likes to	Kinesthetic	
appropriate Sit and learn, paper	Ability to	difficulty	2	frustration,	likes to please		
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appropriate Sit and learn, paper	Ability to	difficulty with	2	frustration,	likes to		
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appropriate Sit and learn, paper and pencil	Ability to abstract feren and a	ce bette neuro	ween : behav address	standa vioral a	ard pra	actice ach	

Where there is anger, frustration or blame: There is missing information

What is the question?



What is the question?

- The first questions are always:
- Who is the child?
- What if? What about brain function?
- What is the fit?
- Whose needs are being met?



Importance of observation

- 1. Learn to see without judging
- 2. Step back, depersonalize
- 3. See the pattern of behaviors
- 4. Understand where the fit is poor
- 5. Identify points of intervention
- 6. Prevent problems
- 7. Build on strengths



Observe to Find Patterns:

Functional neurobehavioral assessment

- Are behaviors primary or secondary?
- Observe without interpreting
- What did you see?
- What happened just before?
- Describe the setting, environment
- Were there other factors? E.g. unexpected change?



Paradigm: Way of seeing

Paradigm shift: Seeing differently

"I get it...she has the disability. We have to do the changing.

Source: Parent of child with FASD



Paradigm Shifts and FA/NB



Brain Based Interpretations						
Behaviours	Misconception	Interpretation				
Noncompliance	Willful misconduct, attention seeking, stubborn, everyone does this at times	Difficulty translating verbal direction into action, doesn't understand, chronic memory problems				
Repeatedly making the same mistakes	Willful misconduct, manipulative, lazy	Cannot link cause to effect, can't see similarities, difficulty generalizing				
Not sitting still/fidgeting	Seeking attention, bothering others, willful misconduct, normal for his age	Neurological based need to move while listening/learning, sensory overload				





Paradigm Shift It's about realizing there is another way to look at the situation... | Mayou know | Mark May | Mayou know | Mark Mayou know | Ma

Starter strategies for accommodations: Home, School and Community

- 1. Think brain: Reframe perceptions
- 2. Observe patterns of behaviors
- 3. Identify, build on strengths
- 4. Write the IEP for the environment: Modify environments for a good "fit"
- 5. Collaborate, coordinate



Additional starter strategies

Stop fighting

Ask: What if?

Think younger

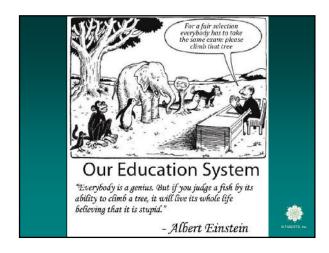
Give time

Recognize strengths

Breathe

Be gentle with yourself





Provincial application of neurobehavioral model

BC MCFD web site with FASD evaluations

http://www.mcf.gov.bc.ca/fasd/index.htm



FASCETS Canada

Fetal Alcohol Spectrum Consultation Education and Training Services

Nancy Hall
Lead Facilitator and Co-Founder
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www.fascets.org/nancy-hall



