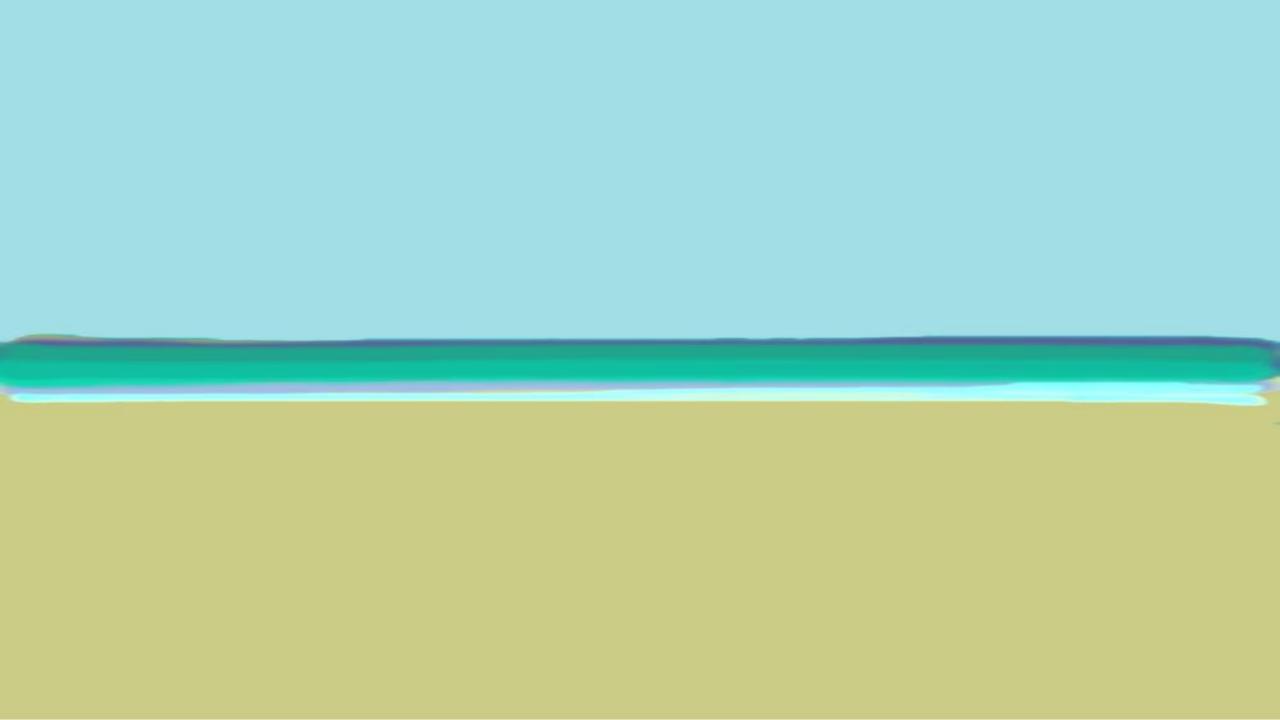
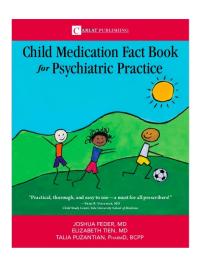
Developmental delay, diagnosis and tools

Joshua Feder, MD - Nablus, November 2019



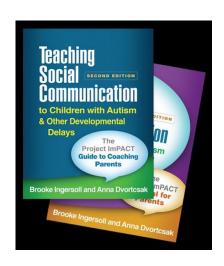
Disclosures

- Editor in Chief The Carlat Child Psychiatry Report
- Fielding Graduate University teaching developmental disorders
- Medical Director QSI-Intellivision: Connection Coder/games
- UCSD/ SDSU research Bridge/ Success





















- Dr. Ali Shaar
- INPB Siobhan Fitzpatrick, Pauline Walmsley, et. al.
- ECPC- Rimah Saleh, Jim Lechman, et. al.
- Fielding / Early Years Research & Development Team: Zoe Kernohan-Neeley, Yvonne Tracey, Deb Sussman, Erin Jipner, Sara Clancey, Maria Lynch, Jill Fergus, Annie Wolverton, and many many others
- San Diego Colleagues: Mara Goverman, Marilee Burgeson, Lauren Brookman-Frazee, Aubyn Stahmer, Sarah Reith
- Caron!

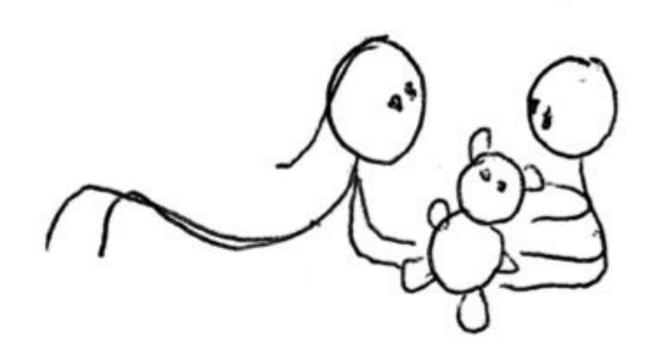
Developmental delay, diagnosis and tools

Outline

- 1. A method to treat stress in children and families went into the field of autism and developmental disorders.
- 2. In the field of developmental disorders, the method developed and evolved.
- 3. The method changes assessment and treatment of developmental disorders, particularly autism.
- 4. The evolved method has now been brought back to the field of trauma and stress to help children and families.

1. A method to treat stress in children and families went into the field of autism and developmental disorders

1970s: Greenspan & Wieder: self-regulation and responsive care helps children under stress.

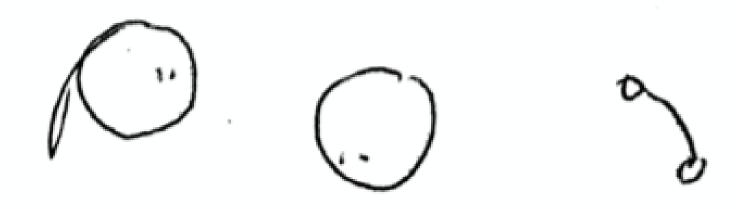


The method is centered on the

Circle of Interaction:

The smallest piece of meaningful interaction

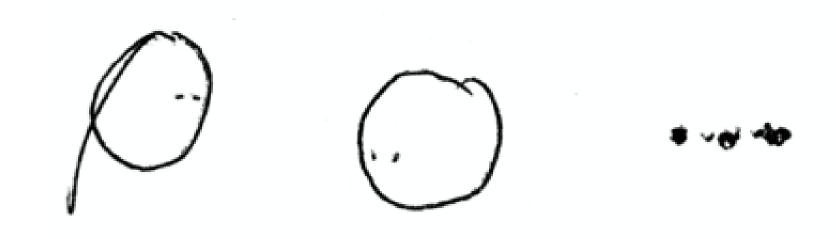
The child is doing something



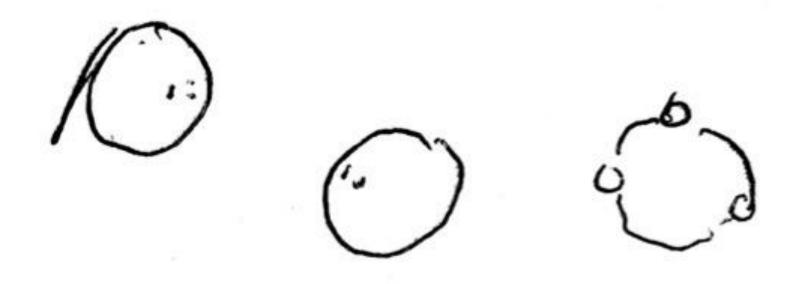
The adult responds to the child's behavior



The adult waits...

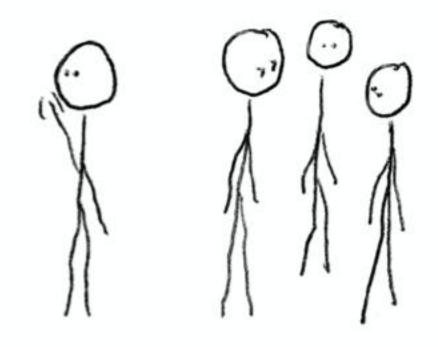


The child responds - closing the 'circle' and confirming that there is meaning to the interaction

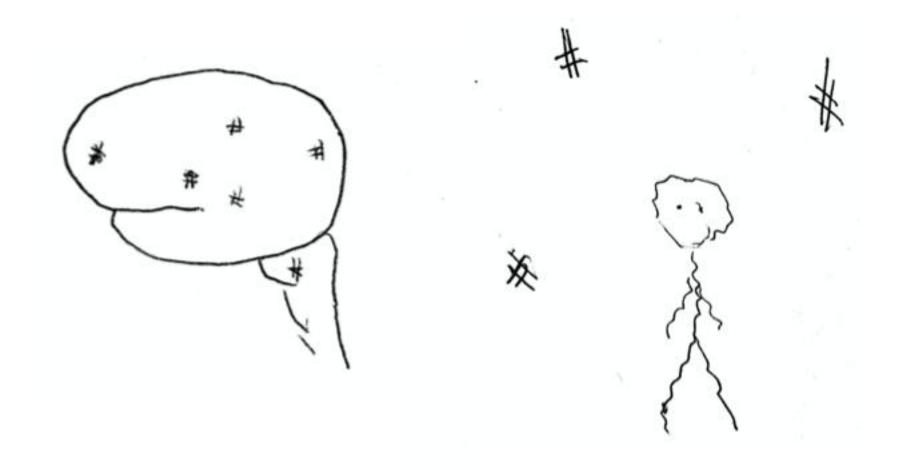


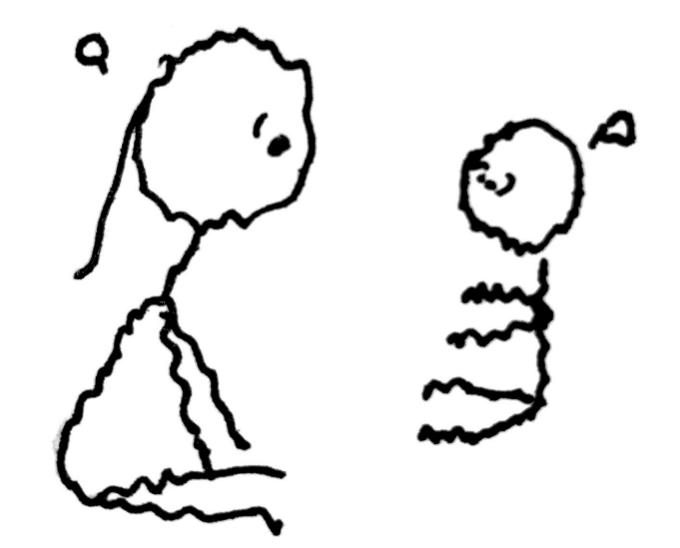
1980's – Now:

methods like these are studied and used by people treating autism and developmental disorders

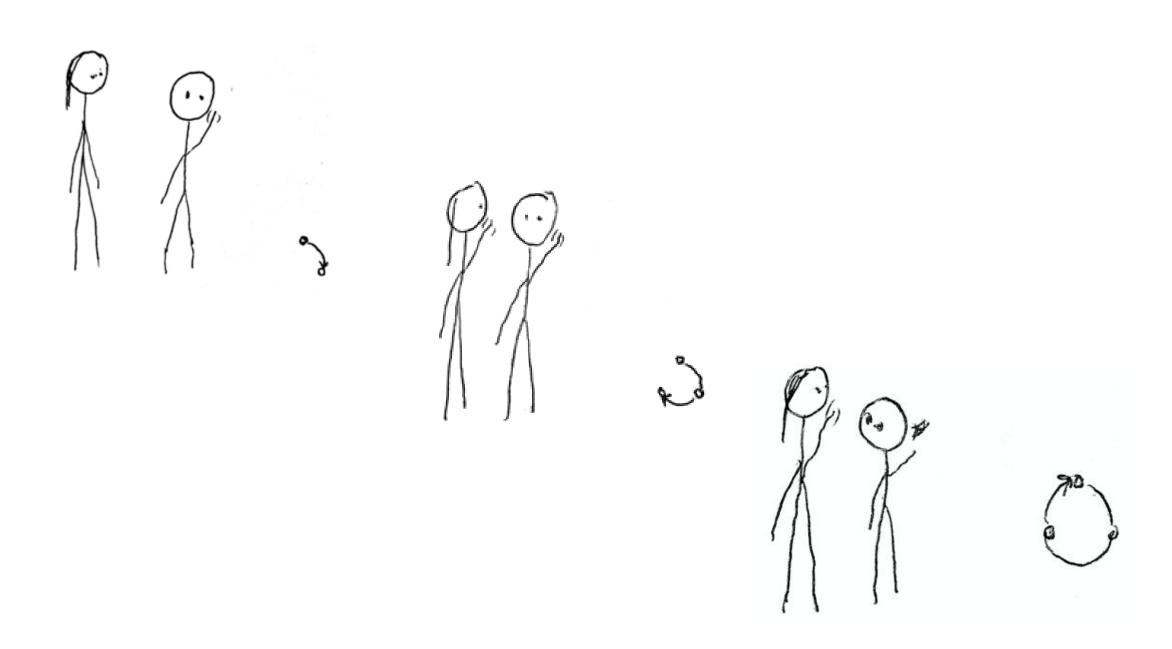


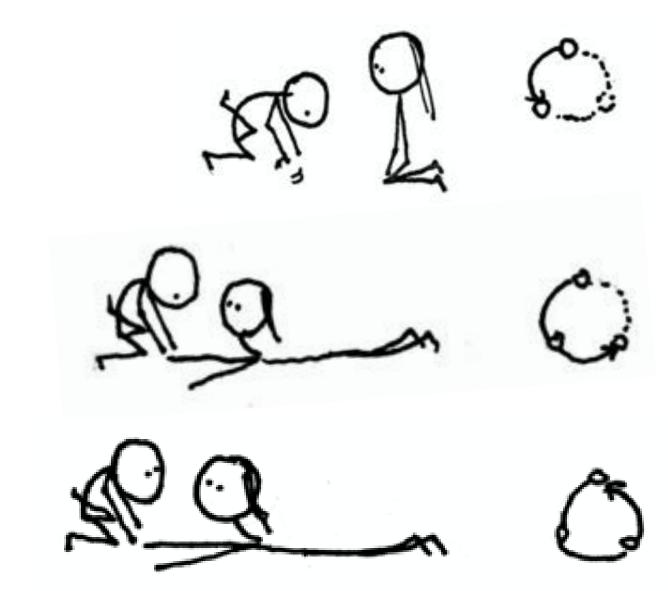
similarities between children with autism and with stress

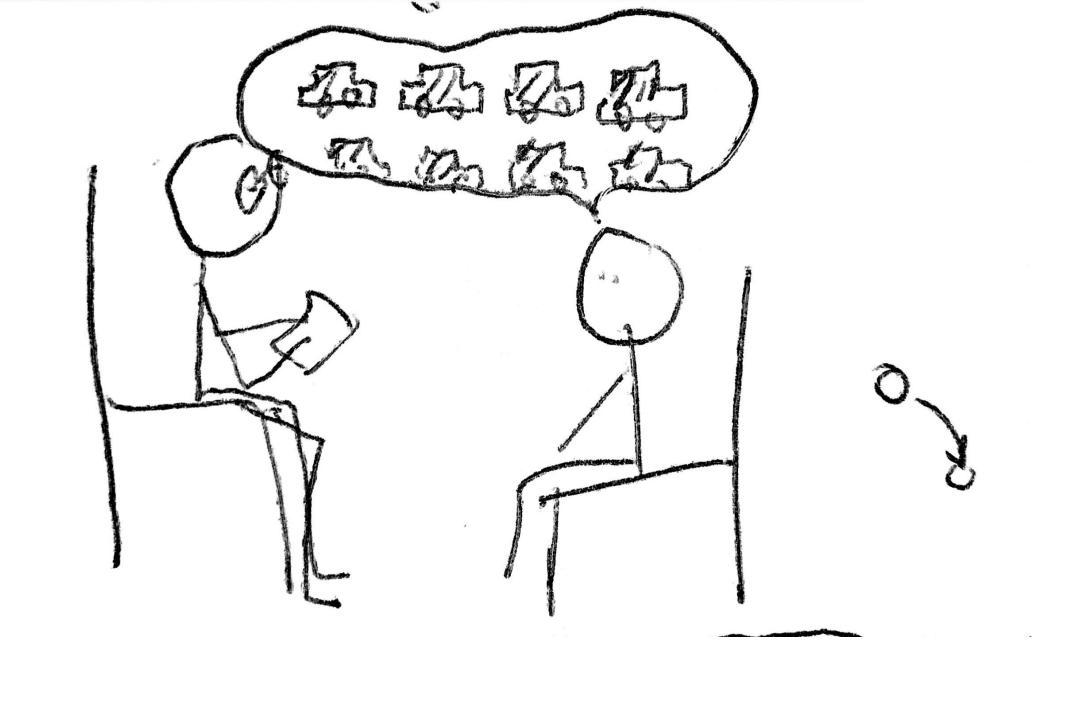


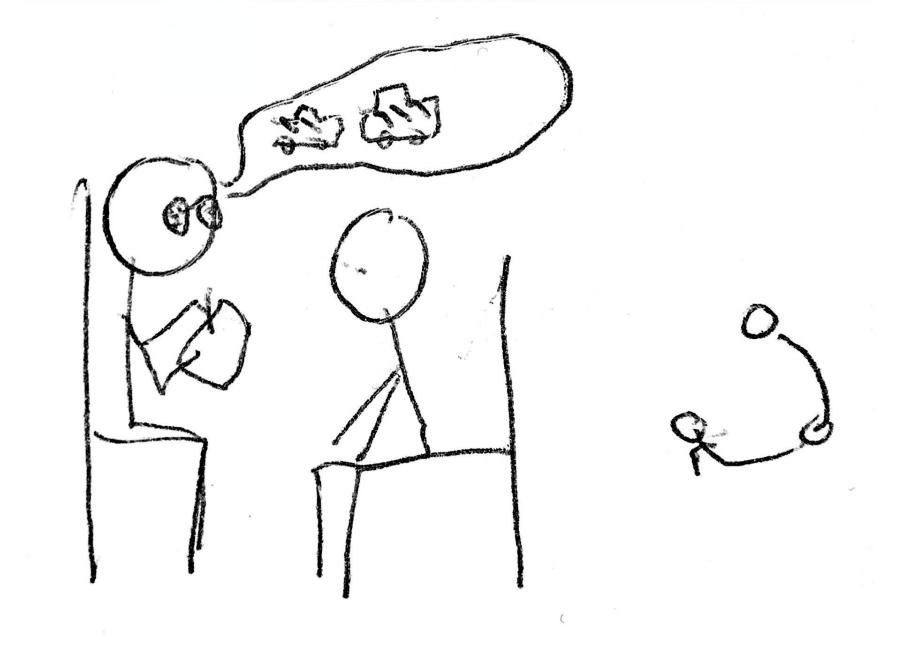


2. In the field of developmental disorders, the method developed and evolved.

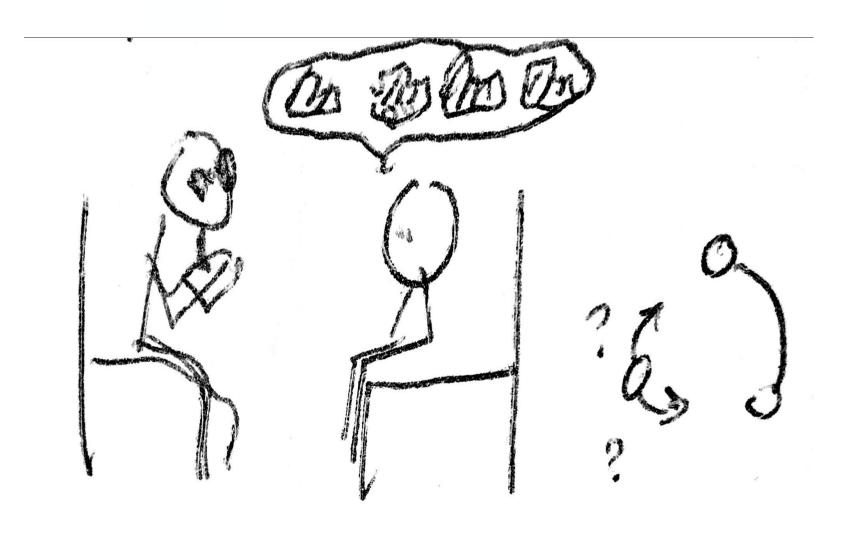


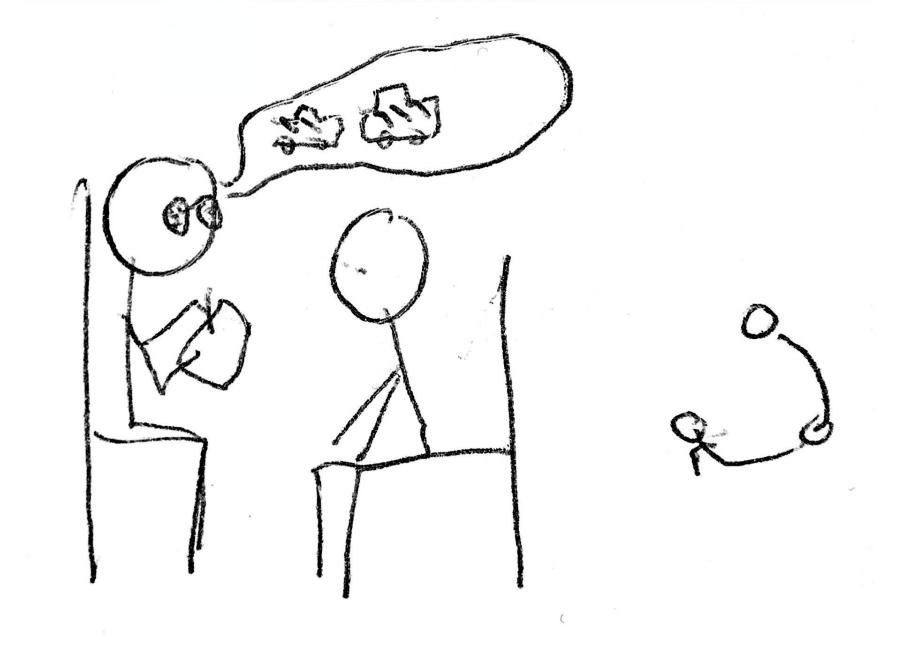






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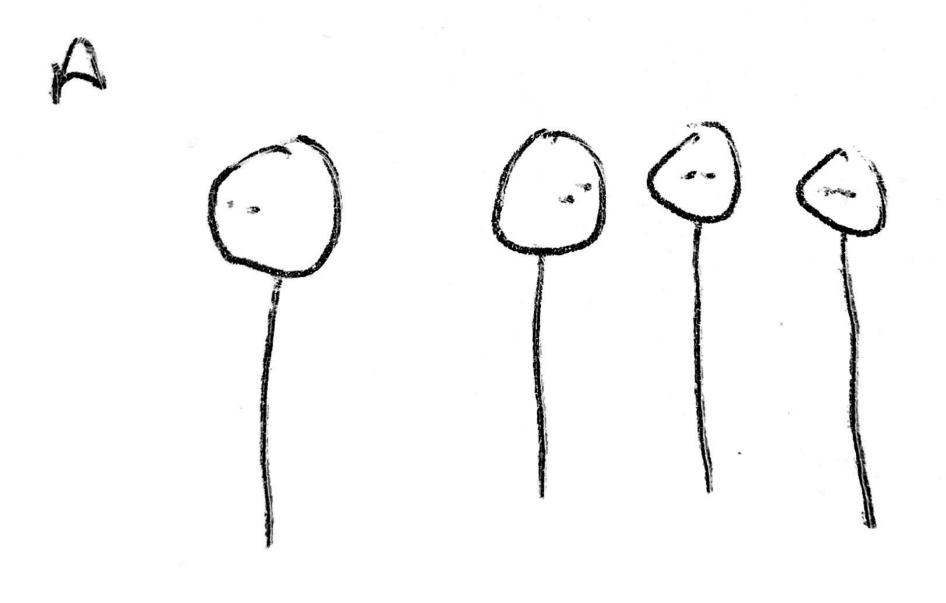


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3. The method changes assessment and treatment of developmental disorders, particularly autism.

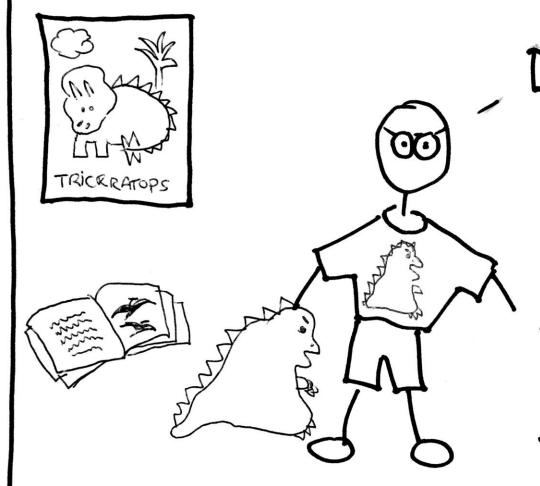
DSM-5 Diagnostic criteria Autism Spectrum Disorder

- A. Poor social communication
- **B.** Narrow range of interests
- C. Present since early childhood
- D. Poor function
- E. Not better explained by other disorders



Lumi.

Narrow thinking...



Dinosaurs are a diverse group of animals of the clade Dinosaura that first appeared during the Triassic ...

www.wikipedia.com

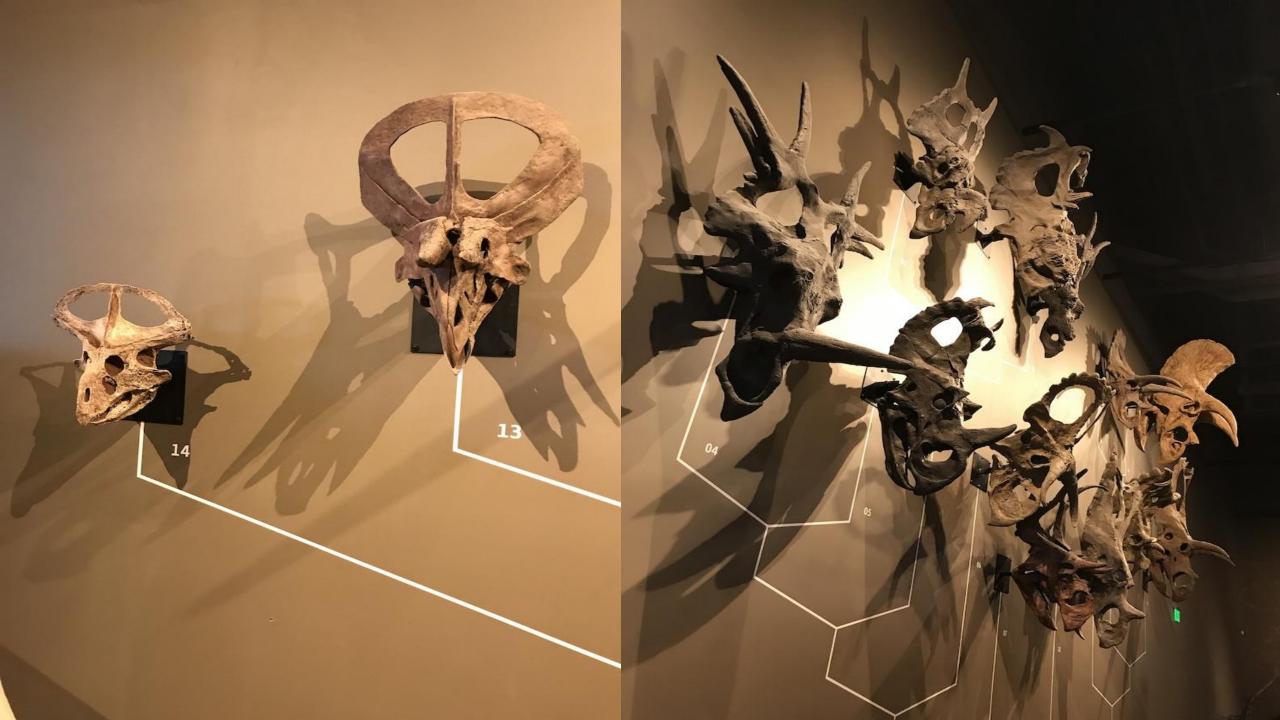












CENTROSAURS

01 Einiosaurus procurvicornis CAST OF MOR 456 & MOR 373



05 Centrosaurus apertus

CAST OF AMNH 5239

02 Pachyrhynosaurus lakustai

CAST OF TMP 1986.55.258



06 Nasutoceratops titusi

CAST OF UMNH VP 16800



03 Achelousaurus horneri

CAST OF MOR 845

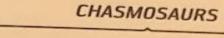


07 Diabloceratops eatoni

CAST OF UMNH VP 16699



04 Styracosaurus albertensis CAST OF CMN 344



08 Anchiceratops ornatus



09 Triceratops horridus

CAST OF TCM 2001.93.1



12 Chasmosaurus belli

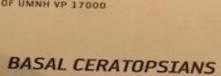
11 Coahuilaceratops

CAST OF ROM 843



10 Kosmoceratops richardsoni

CAST OF UMNH VP 17000



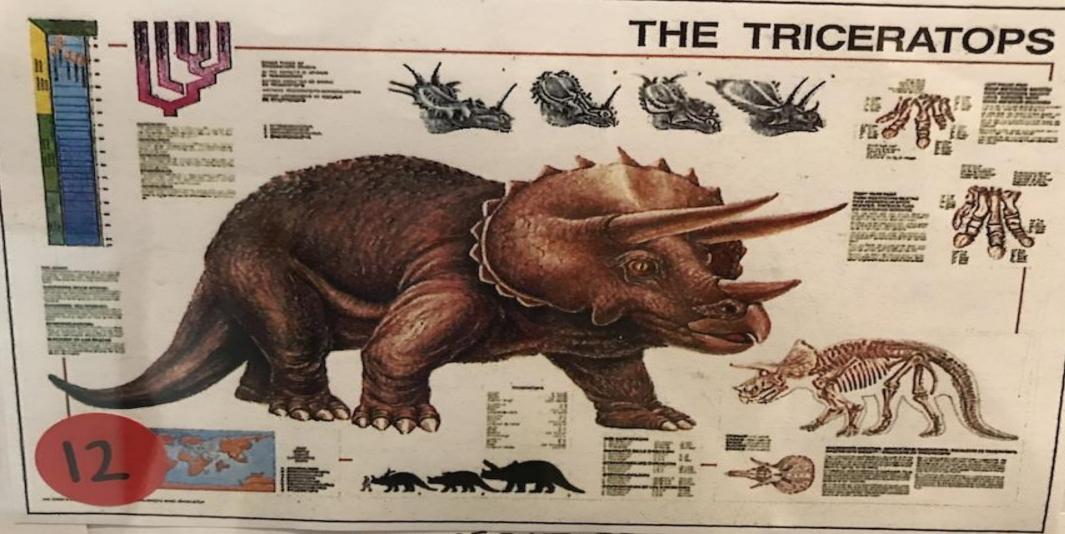
13 Zuniceratops christopheri

CAST OF MSM P 4185



14 Protoceratops andrewsi

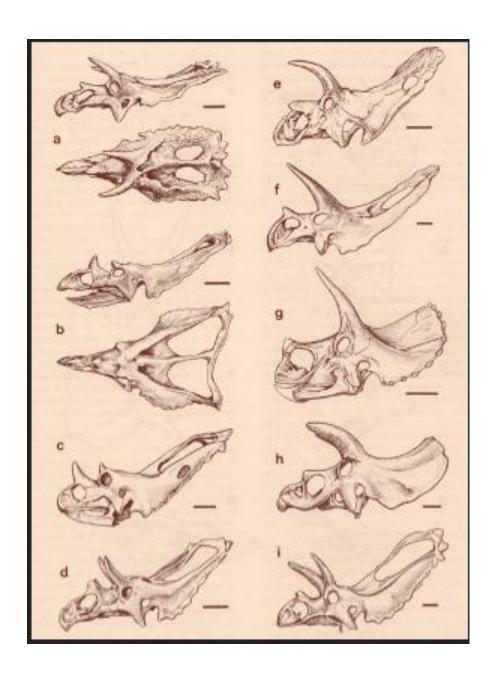
UMNH VPC 41

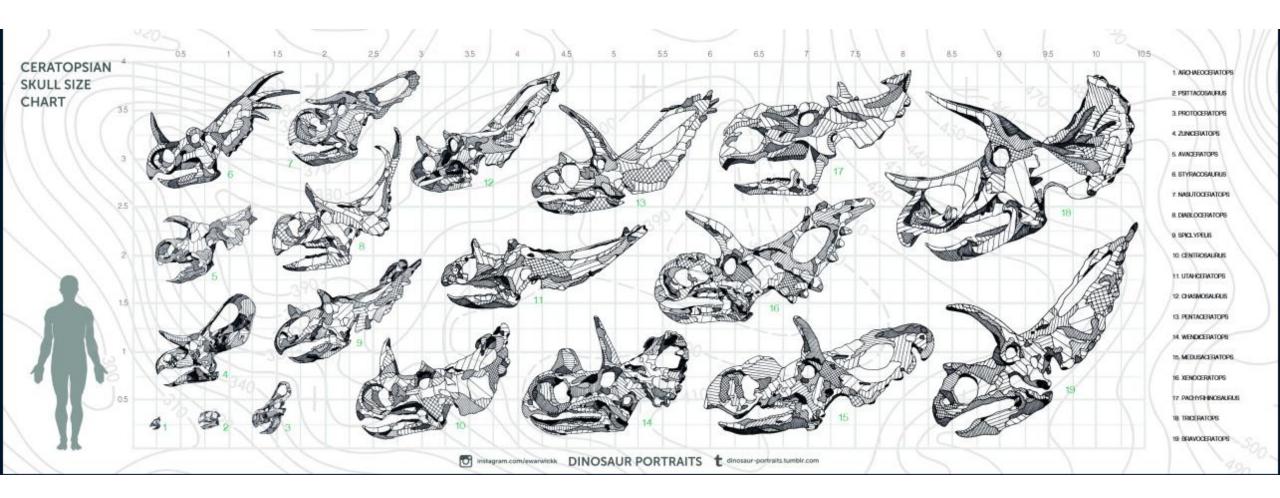


THE TRICERATOPS

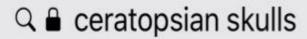
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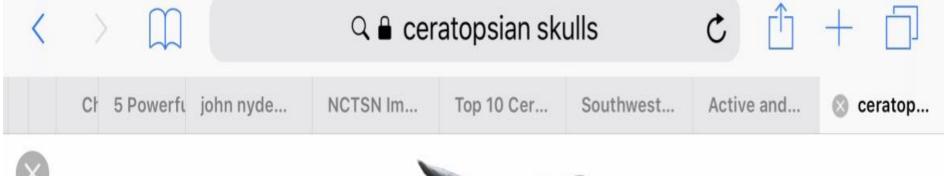














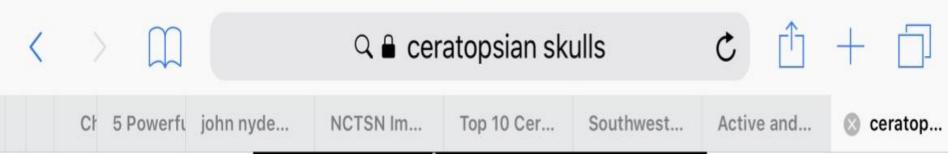




























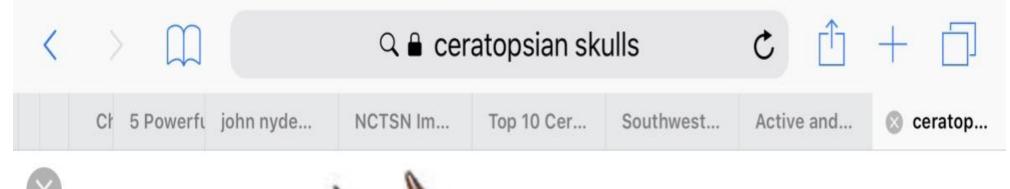






























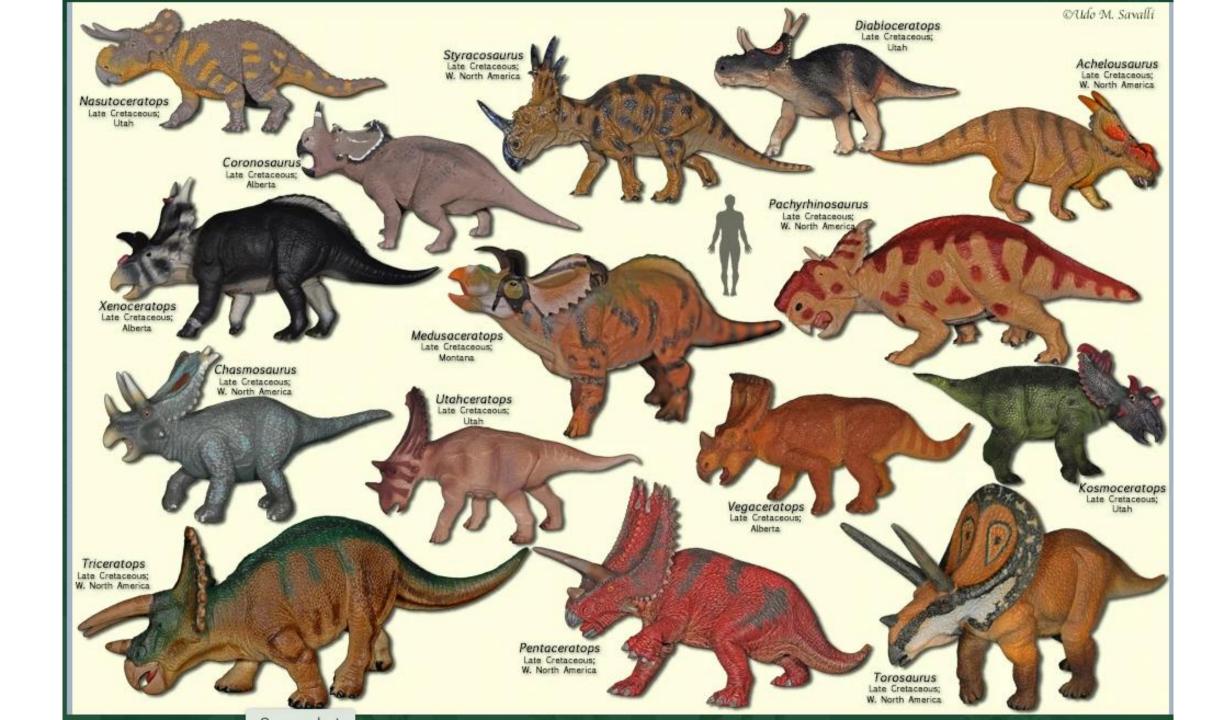
- Communication

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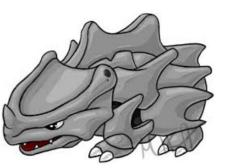














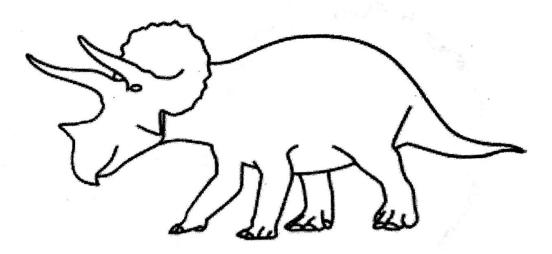




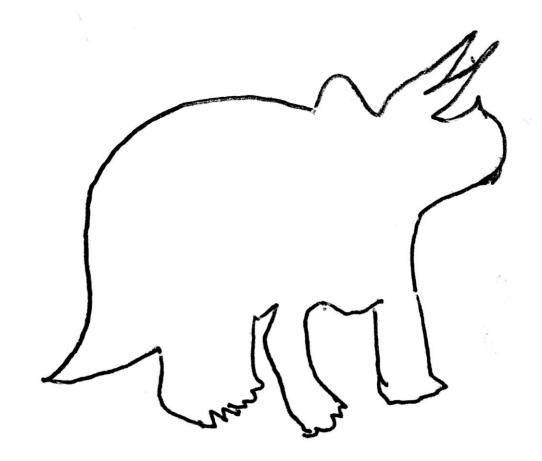


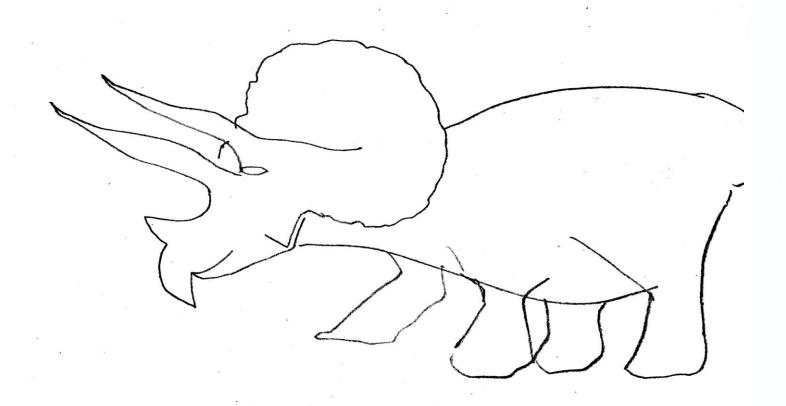






WeDrawAnimals.Com





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Assessment

- History and Mental Status Examination
- Physical examination with neurological screening
- Speech and language Assessment
- Occupational therapy assessment, including sensory and motor processing
- Collateral data family, teachers, others, records, video
- Longitudinal observation many appointments might be needed



More Assessment

• Lab testing e.g. Chromosomal Microarray (FRAXXA, Tuberous Sclerosis, Q22, Prader Willi etc.)

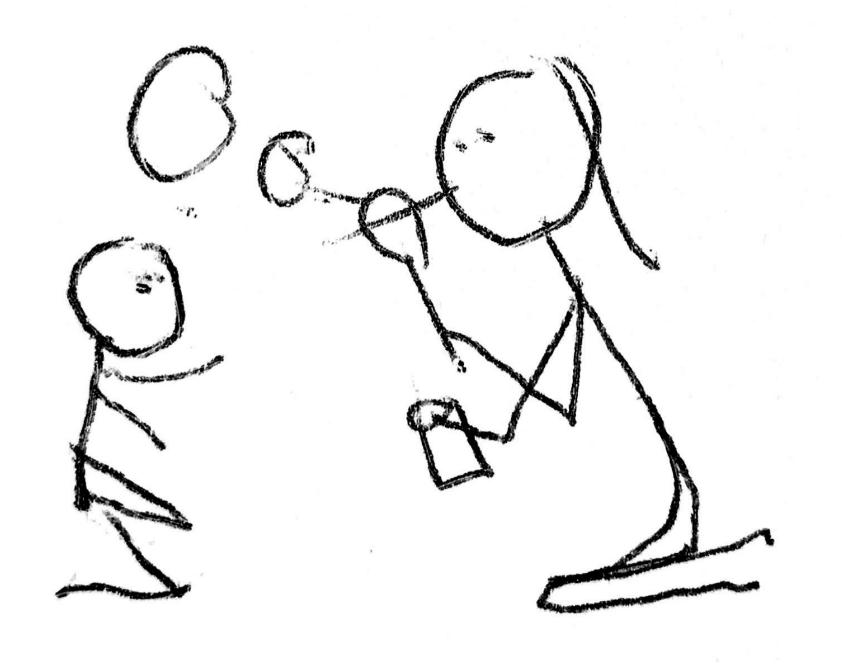
Maybe EEG (sometimes 24 hour, video), less likely MRI



- IQ testing often inaccurate especially due to reliance on language. Might use non-verbal IQ testing e.g. Leiter IQ.
- Autism specific assessments behavioral focus
- Measures of regulation and social connection *person focus*

Autism Diagnostic Observation Scale (ADOS-2)

- Most commonly cited test
- Measures communication, social interaction, and restricted range of interests
- 4 Modules: non-verbal, minimally verbal, verbal, conversational
- Requires formal training to use accurately
- Resources for training in Nablus
- Kindness during testing may make the child seem better
- Accurate in research settings but less reliable in clinical settings



Article in Press

Overemphasis of the Autism Diagnostic Observation Schedule (ADOS) Evaluation Subverts a Clinician's Ability to Provide Access to Autism Services

McLeod F. Gwynette, MDa, Kelly McGuire, MD, MPAc, Matthew C. Fadus, MDa, Joshua D. Feder, MDd, Kathleen A. Koth, DOb, Bryan H. King, MD, MBAe

PlumX Metrics

DOI: https://doi.org/10.1016/j.jaac.2019.07.933

Article Info

Abstract Full Text References

A concerning trend has emerged in the diagnosis and treatment of autism spectrum disorder (ASD) that has a negative impact on care. Quite often, a clinician's diagnosis of ASD using DSM-5 criteria is no longer sufficient for individuals with ASD to access services. Insurance companies, school districts, and developmental disability agencies commonly require an Autism Diagnostic Observation Schedule (ADOS) to be eligible for services.

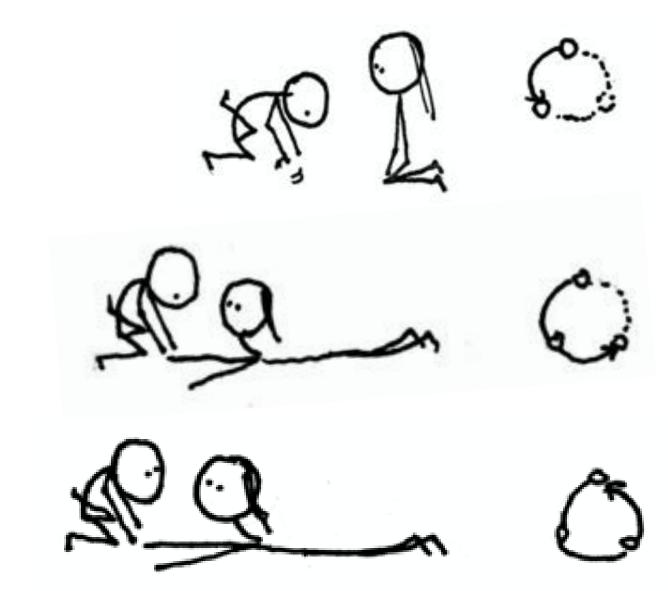
Child Autism Rating Scale (CARS-2)

- Easy to administer observation scale
- Less need for formal training
- Scales for IQ over and under 70
- Often used in research too

Other Autism Specific Assessments

- Autism Diagnostic Interview (ADI)
- Gilliam Autism Rating Scale

Changing assessment....



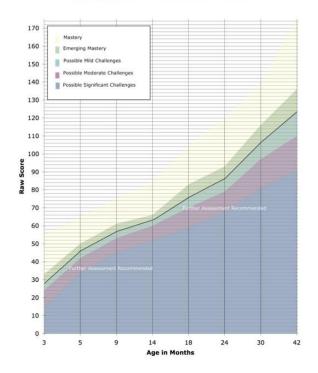
Measures of regulation and social connectedness:

- Regulation
- Connection
- Social reciprocity
- Individual differences (sensory, motor, executive function, etc.)
- Relationships (parent and child together)

Social Emotional Growth Chart (SEGC)

- Part of Bayley Scales in 2004
- Easy to administer
- Ages 0-6 but useful at older ages
- Meant for screening but useful for follow up
- We are developing an Arabic version to be tested here!

Greenspan's Social Emotional Growth Chart



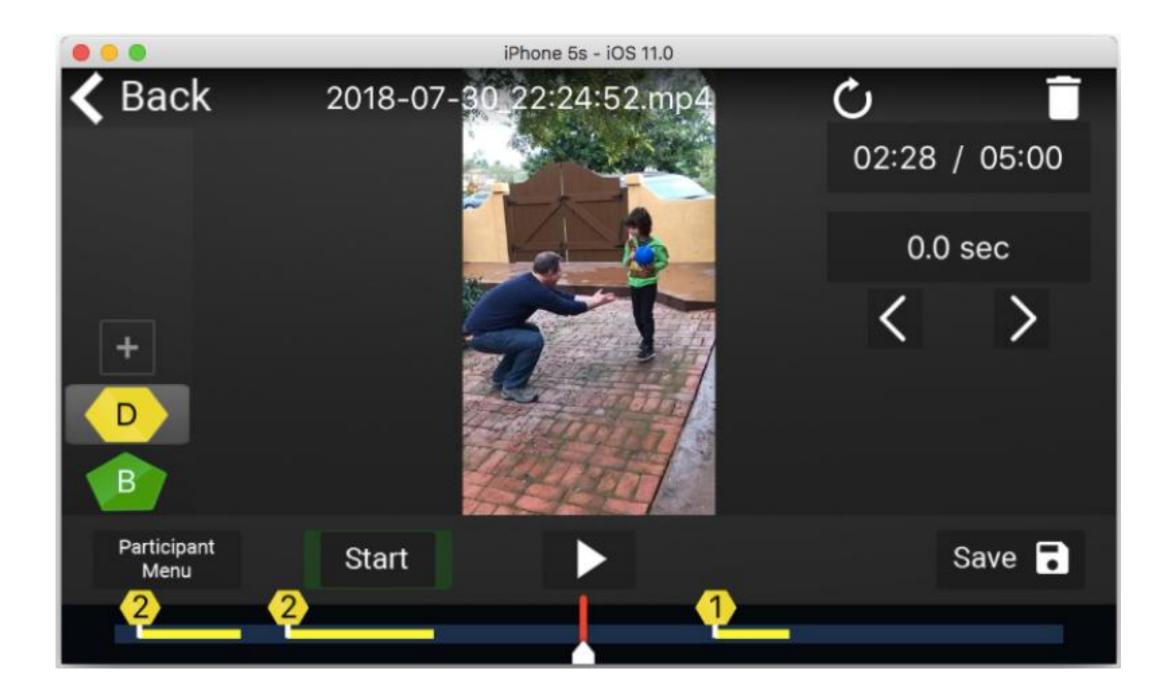
Age	Stage	Description
0-3	Stage 1	Exhibits growing self-regulation and interest in the world
4-5	Stage 2	Engages in relationships
6-9	Stage 3	Uses emotions in an interactive personal manner
10-14	Stage 4a	Uses a series of interactive emotional signals or gestures to communicate
	Stage 4b	Uses a series of interactive emotional signals or gestures to problem solve
19-24	Stage 5a	Uses symbols or ideas to convey intentions or feelings
25-30	Stage 5b	Uses symbols or ideas to express more than basic needs
31-42	Stage 6	Creates logical bridges between emotions an ideas

Functional Emotional Assessment Scale (FEAS)

- Sensory, motor, and symbolic toys
- Child and parent play together
- Clinical and research versions

Fielding Connection Coding Paradigm (FCCP)

- Video coding in natural environments: home, school, clinic
- Useful for research
- Looks at amount of time connected and degree of connection
- Connection Coder mobile app

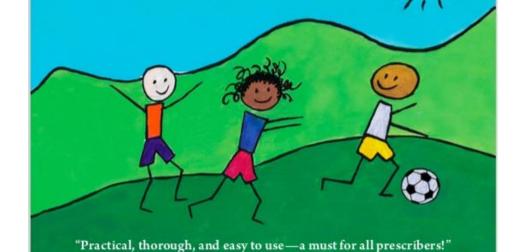


Treatment:

- Autism specific interventions
- Speech and language therapy
- Occupational therapy
- Educational planning
- Etc. etc. etc.
- Medications for better regulation, and for specific conditions such as seizures



Child Medication Fact Book for Psychiatric Practice



JOSHUA FEDER, MD ELIZABETH TIEN, MD TALIA PUZANTIAN, PHARMD, BCPP

— FRED R. VOLKMAR, MD Child Study Center, Yale University School of Medicine Common autism specific treatment (ABA)

Deficit based – 'Disorder'

(Like an infection or cancer)

Directive: train to look 'normal'

Train to "normal"?

Look at me.

Good job!

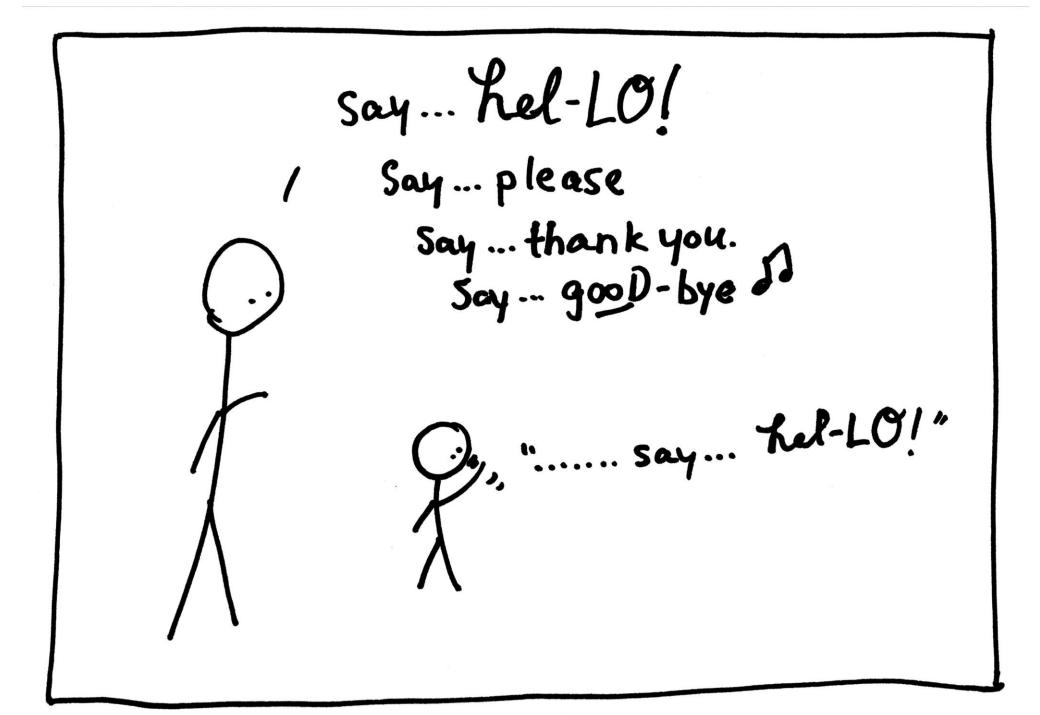
Here's your

cookie.

Say: VROOM VROOM!

But there are side effects...

Quit staking - it's weikd. Akon Akon i Br. L. Kerine Graz.



Changing treatment (Developmental)

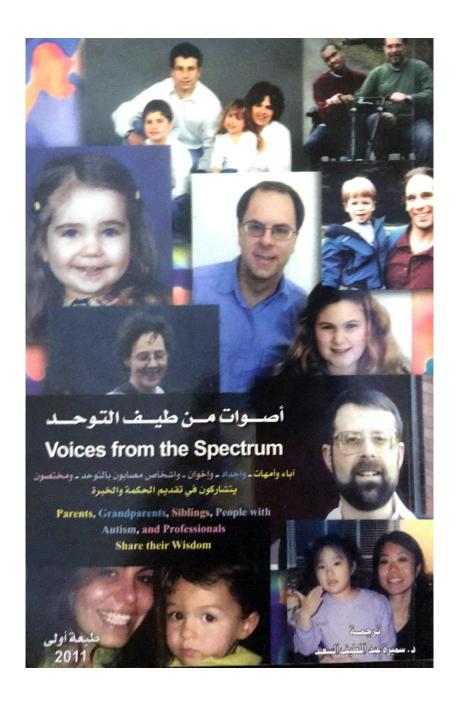
Regulation – Connection – Flow of Interaction

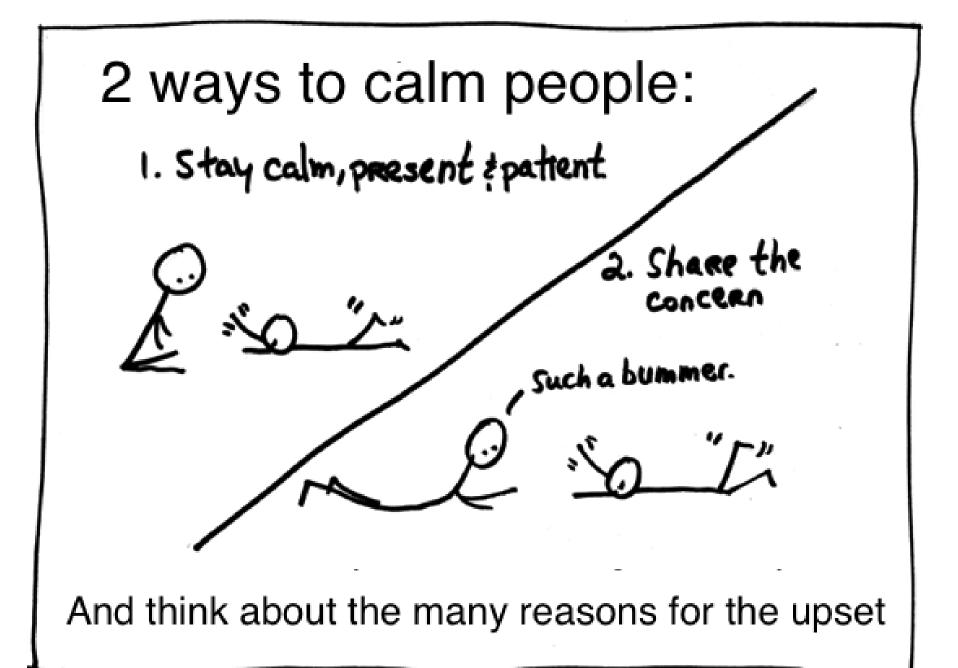
Less directive – build on strengths.

Individual differences: sensory, motor, executive...

Relationship based - parents, peers, teachers....

Honors the voices of child and family

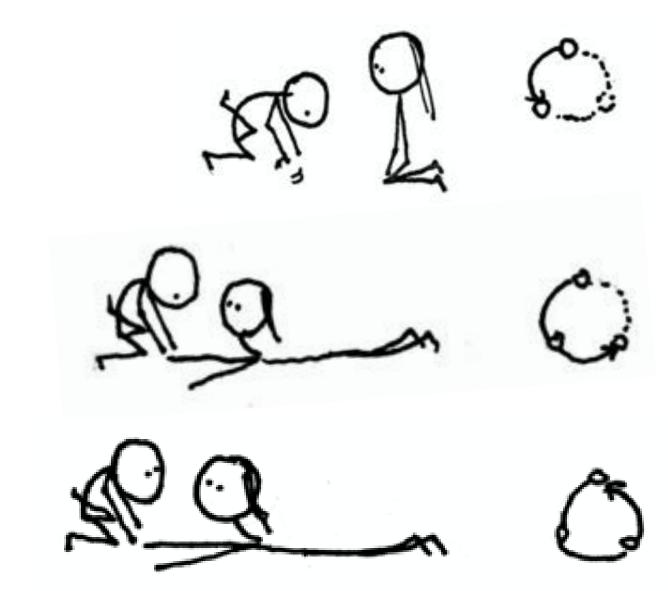




We do not ignore an upset child.

And we do not punish an upset child

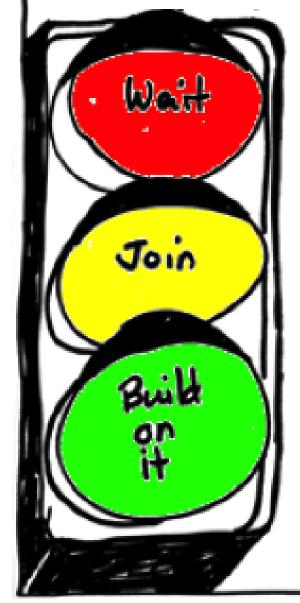
When child is calmer, make more circles



Build a flow of circles.

The flow helps the child communicate, learn and problem solve.

How to Connect in Meaningful Interaction?



Observe Observe

Gently follow her lead

Gently add to the ideas.
See what works.

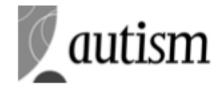
Gentle Persistence pays off!

Range of treatments, from directive to non-directive

- Discrete Trial Training (Traditional Applied behavioral Analysis)
 - Pivotal Response Training
 - Relationship Development Intervention
 - Early Start Denver Model
 - JASPER

Project ImPACT

- MEHRIT
- PLAY Project
- DIR/Floortime
 - Son Rise



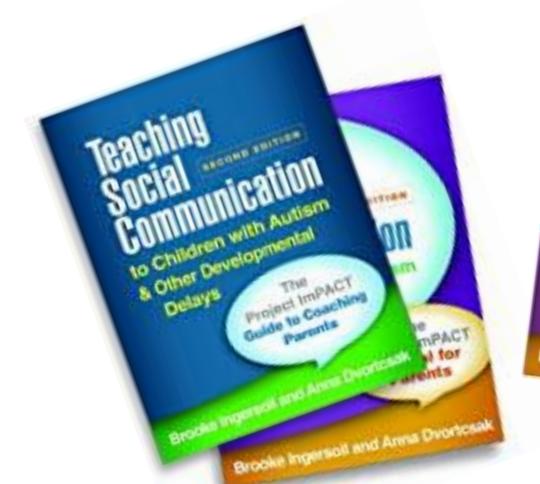
Project ImPACT for Toddlers: Pilot outcomes of a community adaptation of an intervention for autism risk

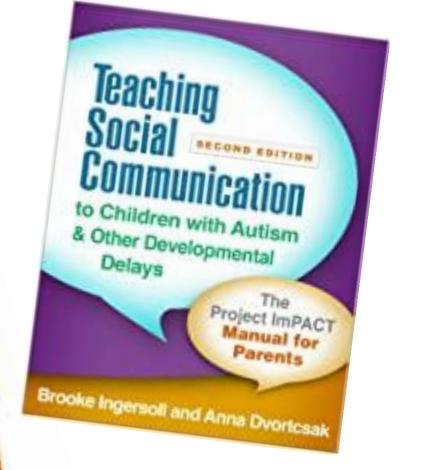
Autism
1–16
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DOI: 10.1177/1362361319878080
journals.sagepub.com/home/aut

Aubyn C Stahmer^{1,2}, Sarah R Rieth^{2,3}, Kelsey S Dickson^{2,3}, Josh Feder⁴, Marilee Burgeson^{5,6}, Karyn Searcy^{3,7} and Lauren Brookman-Frazee^{2,8,9}

Abstract

This study reports child and family outcomes from a community-based, quasi-experimental pilot trial of *Project ImPACT* for *Toddlers* that is a parent-mediated, naturalistic, developmental behavioral intervention for children with or at-risk for autism spectrum disorder developed through a research—community partnership. Community early interventionists delivered either *Project ImPACT* for *Toddlers* (n=10) or Usual Care (n=9) to families based on Part C assigned provider. Twenty-five families participated, with children averaging 22.76 months old (SD=5.06). Family and child measures were collected at intake, after 3 months of service, and after a 3-month follow-up. Results indicate significantly greater improvements in positive parent—child interactions for *Project ImPACT for Toddlers* than usual care families, as well as large, but non-significant, effect sizes for *Project ImPACT for Toddlers* families in children's social and communication skills.





Project ImPACT

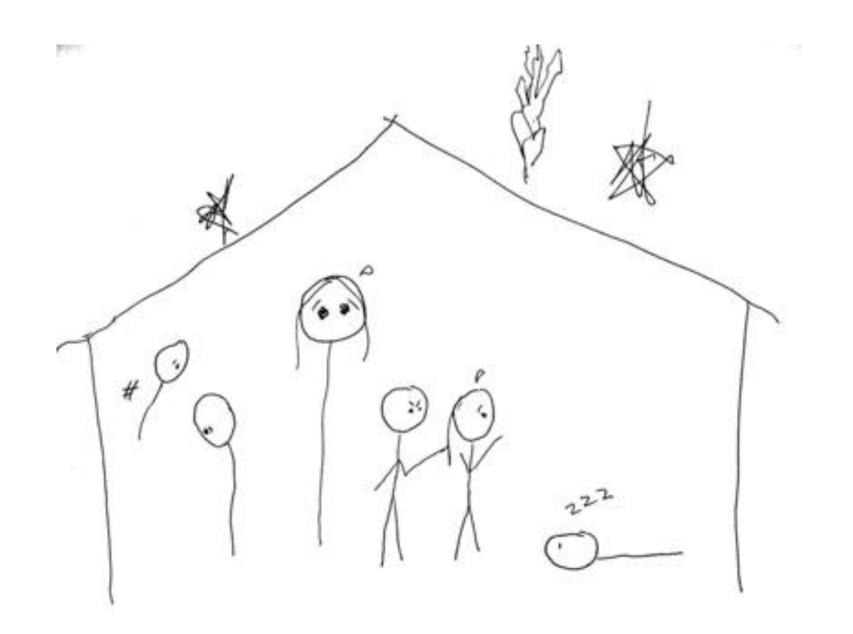
- Evidence Based/Evidence Informed
- New grant for bigger study (100 children)
- Scale up plan to regional trials (1000's of children)

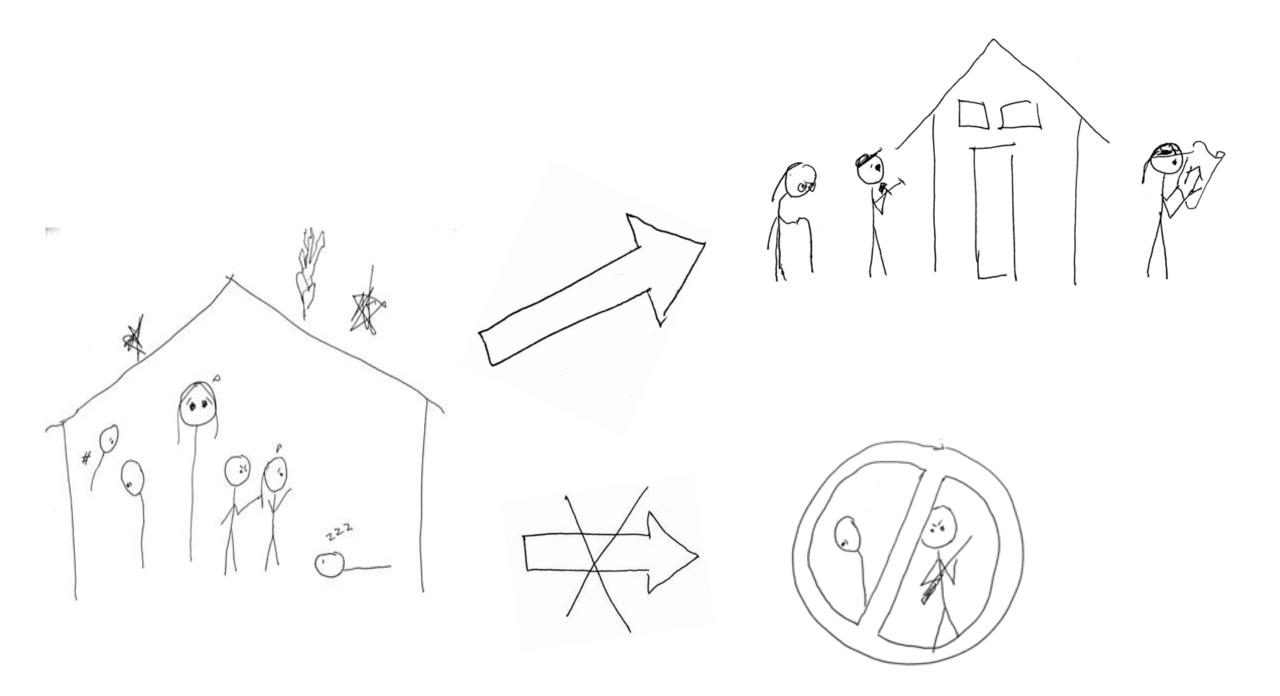
4. The evolved method has now been brought back to the field of trauma and stress to help children and families.

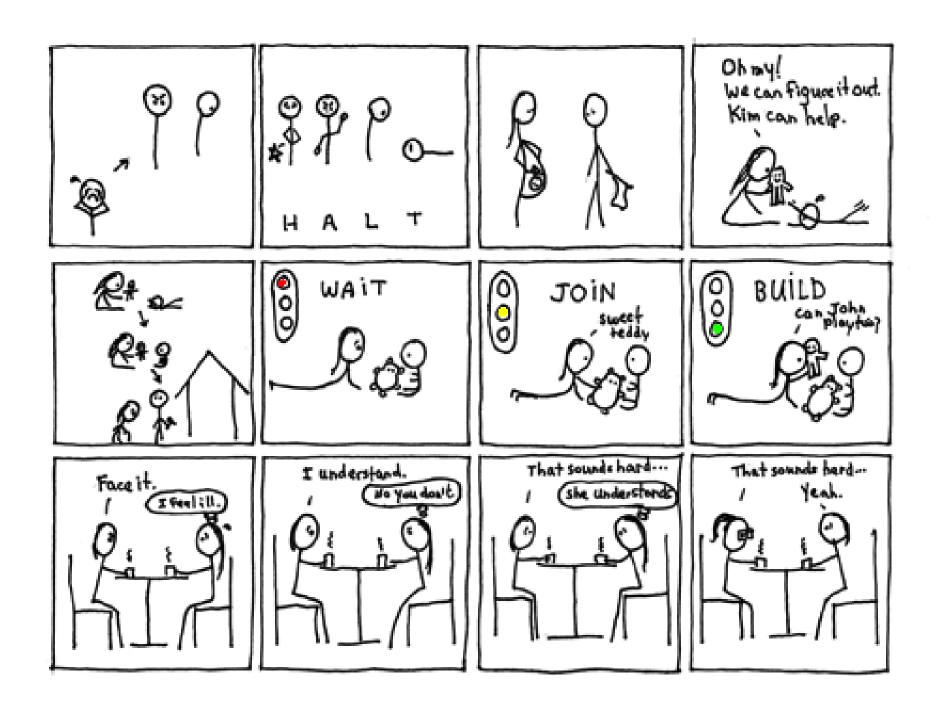
The Early Years Media Initiative For Children



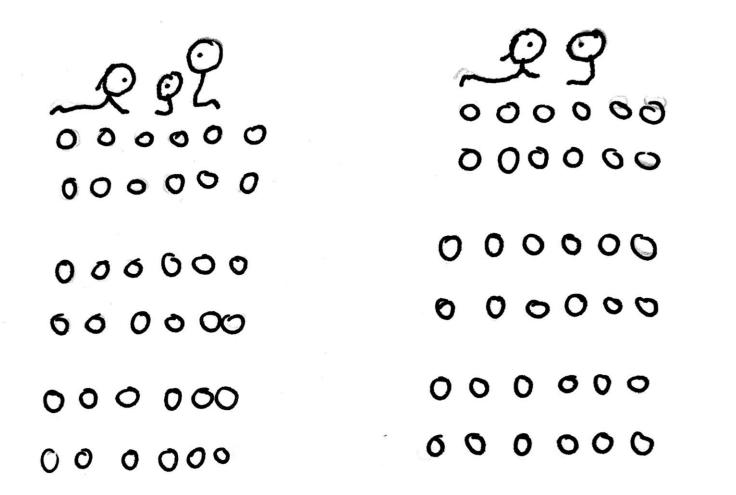








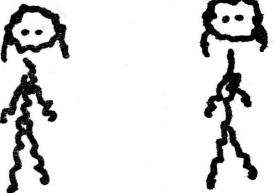
2019 - 2020: Controlled trial in Northern Ireland



Some measures...

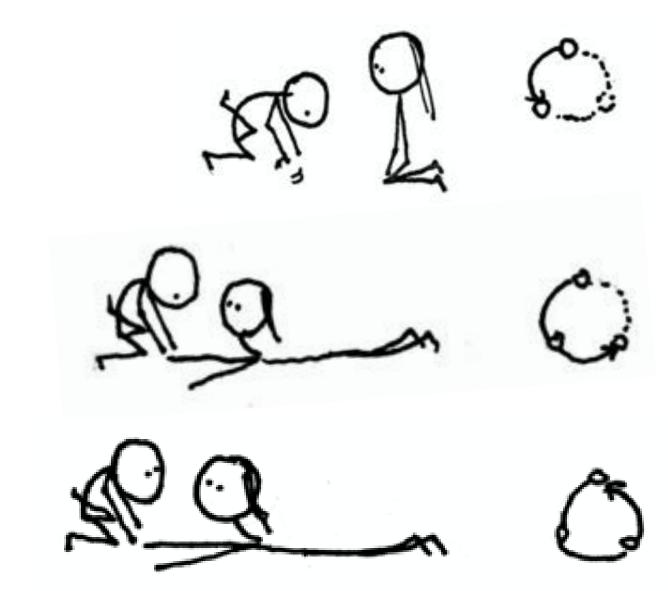
child regulation

parent & Teacher stress

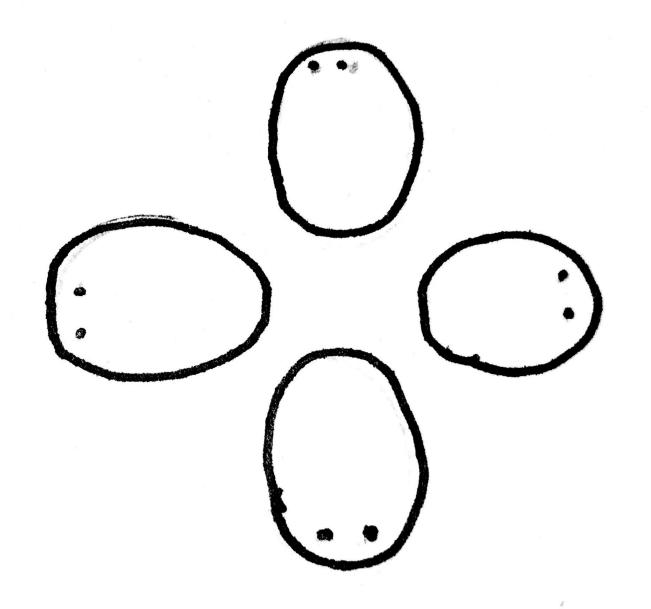


responsiveness O Social-emotional ability

It all starts with a circle...



And can help us to live together in safety and peace even with our different realities



شکرا