Social Competence Training for Youth with ASD: Challenges and Opportunities

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The other challenges in working with youth with ASD

- Aim: To reduce the impacts of ASD on daily functioning:
- What to do?
- How to do it?
- How do we know what we are doing is effective?

The Overarching Challenge

- Can we do better in serving people with Autism Spectrum Disorder (ASD)?
- The "wonder kid of squash":

Can we do better in serving people with Autism Spectrum Disorder (ASD)?

- Evidence for effective practice:
- Intensive training (40 hours/week for 2 years) based on Applied Behavior Analysis (ABA) for children before 6 years old. Success rate: 50%
- Training contents: developmental & global basis

What about working with youth with ASD?

- Intensive, individual & developmental/global approach - practical & effective?
- If not, what else?

What is ASD? "Myth & Reality"

(The Psychologist, 2014)

A steady increasing prevalence. Why?

• 1980's: 4/10,000

• 2002: 6.4/1000

• 2006: 9/1,000

• 2008: 11.3/1,000

• 2012: 14.3/1,000

Centers for Disease Control & Prevention, USA, 2014

ASD, an evolving concept: Changes in DSM-5

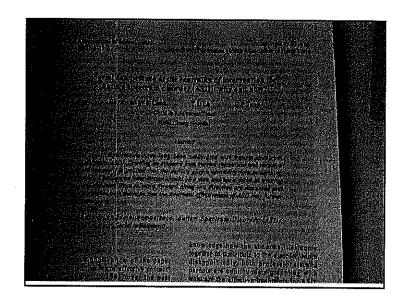
- Under Neurodevelopmental Disorder
- Adopting a spectrum (ASD) concept no more distinction between various types of PDD
- 2 major defining deficits social & behaviour; language considered not a distinct marker for ASD
- Age limit is replaced by social context

Making the picture more complicated: Co-morbidity 10:31% (MR): 23% (limited): 46%

- IQ: 31% (MR).; 23% (limited); 46% (average or above) (CDC, 2014, Community Report on Autism).
- ADHD (Childhood, 30%))
- Anxiety disorders (adolescence, 50%)
- Depression (adolescence/young adult -50-70%)

Let's losing the gist: Social deficits are the cardinal signature features

- A more emphasis on social deficits across different developmental stages & multiple contexts
- Why "B" is a concern? Interfering with functioning in particular in the social domain



What is iREACH

(賽馬會心志牽社交能力發展中心)?

- A community-based center
- Launched in September, 2014 with support from Jockey Club
- Focus on social competence development
- Target at youth with Autism Spectrum Disorder (ASD)

Aim: To reduce the impacts of ASD on daily functioning:

- A focus on social intervention
- What to do?

Social Intervention: The essential components

- Emotion regulation:
- ASD as "affective" disturbance (Kanner, 1943)
- Deficit in social-emotional reciprocity (DSM-5)
- Increasing prevalence rate of co-morbid anxiety & depression among youth with ASD

Social Intervention: The essential components

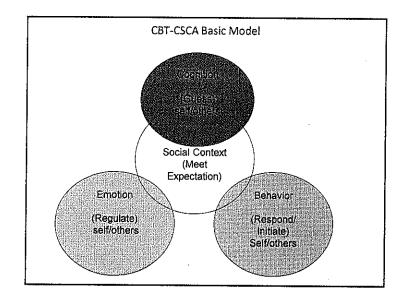
- Social cognition
- The development of theory of mind in ASD
- The necessity of it in coping with fluidity of social interactions

Social Intervention: The essential components

- Behavioural skills
- Learning more complex skills such as conversation, assertive defence.

Social Intervention: The essential components

- Social motivation & context-based knowledge:
- Integration, practice and application in common social situations



CBT-Context-based Social Competence Model for Autism (CBT-CSCA) 情、理、行、實況社交訓練 (Chan et al., 2014)

What are the domains of social competence?

- A confirmed 7-factor model (Yager & Iarocci, 2013)
- Behaviour:
- 1) Non-verbal Sending skills
- 2) Verbal conversation skills
- Emotion:
- 3) Demonstrating empathic concern
- 4) Emotion Regulation

The 7 domains of social competence

- Cognition:
- 5) Social inferencing
- Social Context:
- 6) Social motivation
- 7) Social knowledge

情、理、行、實況社交訓練

(CBT- Context-based Social Competence Training for Autism, CBT-CSCA)

- Our basic training protocol:
- 18 sessions, 1.5 hours each
- · Session 1: Introduction & Social motivation
- Session 2-4: Social knowledge of common contexts & perspective taking
- · Session 5: Active listening
- Session 6-9: Conversation skills
- Session 10-13: Emotion recognition & management of anxiety & anger

- Session 14-15: Social cognition, mind reading
- Session 16-18: Integration practice in different common social contexts, joint activities & graduation party.

effective?

· How do we know what we are doing is

Trial running

• Period: 2012-2013

• Subjects: 82, M(89%), F(11%)

• Age: 12-18 years old

• Measure: SRS by parents • Design: pre & post & 3-month follow-up

• Results: Significant improvement after completion of training (SRS score: 102 dropped to 89), improvement maintained at 3-month followup.

Results: Social Responsiveness Scale, pre & post & 3-month follow-up

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Developing social competence among high-functioning youth with autism spectrum disorders: A pilot experience in Hong Kong

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CBT-CSCA Groups at iREACH

- Youth & Adult groups
- Normal IQ & Limited IQ
- 1st wave data (Normal IQ, youth)
- Measurement: Multi-dimensional Social Competence Scale (Yager & Iarocci, 2013), selfand parent-rated.
- MSCS-C (Chinese version) has been validated locally (B. Leung, 2015).

Results

- Significant improvement in social competence after completion of CBT-CSCA group training
- Parent-rated: large effective size
- Self-rated: Medium to large effective size

Evaluation of CBT-CSCA Groups

A. Questionnaire data comparison : Parent-rated

		Mean	5.D.	Mean	. S.D.		sig.	Cohen's d
	Social Motivation	2.73	0.59	3.03	0.53	2.73	0.013	0.585 *
	Social Inferencing	2.40	0.53	257	0,47	2.37	0.028	0.512
	Demonstrating Empathic Concern	2.73	0.61	2.98	0.58	3.34	0.003	0.714 **
ASCS	Social Knowledge	3.00	0.58	3.20	0.62	2:32	0.031	0.496 *
190	Verbal Conversation Skills	2.46	0.49	2.88	0.39	4,48	0.000	0.976 *1*
	Nonverbal sending skills	2.94	0.56	3.14	0.56	2.07	0.051	0.441
	Emotion Regulation	2.75	0.56	2.90	0.59	1.86	0.077	0.397
	Total	2.71	0.40	2.96	0.41	4.06	0.001	0.867
f dev	eloped assessment	3,44	0.63	3,79	0.61	3.97	0.001	0.828 ***

N = 22 Cohen's D: 0.2 (Small), 0.5 (Medium), 0.8 (Large) thos: 05) ** (n < 03) *** (ps 001)

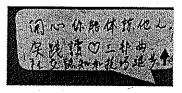
Evaluation of CBT-CSCA Groups

A. Questionnaire data comparison : Child-rated

		(10 T)							Cohen's	
	State of the state	.N	Mean	- S.D.	Mean	5.D.	1	sig.	d:	
MSCS	Social Motivation	27	3.01	0.59	3.22	0.66	3.10	0.005	0,607	**
	Social Inferencing	27	3.18	0,40	3.36	0.56	1.86	0.075	0.372	4.333
	Demonstrating Empathic Concern	27	3.21	0.68	3.44	0.65	2.17	0.039	0.419	
	Social Knowledge	27	3.52	0.60	3.75	0,68	1.70	0.101	- 0,329	Sel.
	Verbal Conversation Skills	27	2.99	0.60	3.26	0.54	2.44	0.022	0,472	
	Nonverbal sending skills	27	3.18	0.59	3.40	0.61	2.23	0.034	0,430	*
	Emotion Regulation	27	2.95	0.71	3.32	0.60	2.31	0.029	0.446	*
	Total	27	3.15	0.36	3.39	0.43	3,69	0.001	0.722	**
Self	developed assessment	27	4.02	0.58	4.36	0.79	2,52	0.018	0.499	*
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N=27	(Carlo di Suni Albanda)		140	Or Server	Section 1	经消费数	Below H	300	statistic in	1000

Evaluation of CBT-CSCA Groups

B. Feedback & comments from parents and youths









Work in progress

- Apart from social competence, to analyze the impacts on:
- ASD symptoms (AQ-10)
- General psychopathology & emotions (CBCL & DASS)

Challenges ahead

- Further local validation of measures of effectiveness (e.g. from teacher)
- Development of training programme for people with ASD & developmental delay
- Development of training programme for adults with ASD
- Sharing of CBT-CSCA knowledge & skills
- Working with others on programme development & effectiveness study.

Finally, back to the question

• Can we do better?