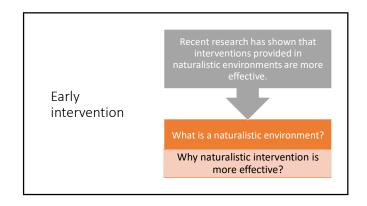


Further reading: Annual Research Review: The state of autism intervention science: progress, target psychological and biological mechanisms and future prospects



Enhanced responsiveness: evidence

Beneficial

- ✓ Following child's lead (Baxendale and Hesketh, 2003)
- ✓ Joint attention (Tomasello, 1988, Beuker et al, 2013)
- ✓ Expansion (Newport et al 1979)

Detrimental

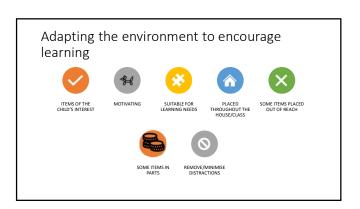
- × Telegraphic speech (Chafetz et al, 1992)
- Directive styles (Fitzerald et al, 2013)

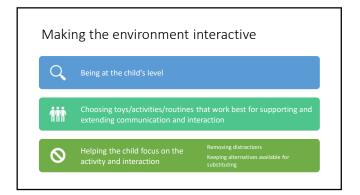
× Redirecting the child's lead (Tomasello and Farrar, 1986) Naturalistic intervention

Family involvement

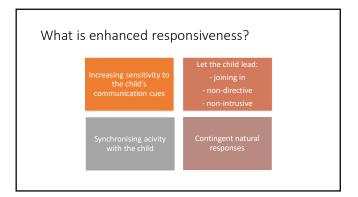
Naturalistic intervention

Adapting the environment to create learning opportunities

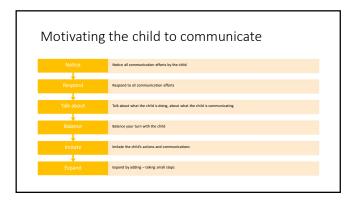








Using strategies to
make the child
motivated to
communicate, interact
and learn

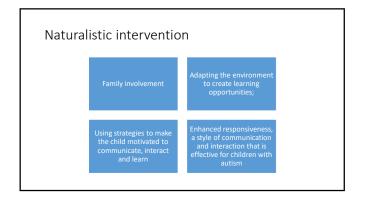


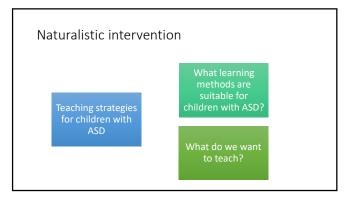
Some video clips to watch

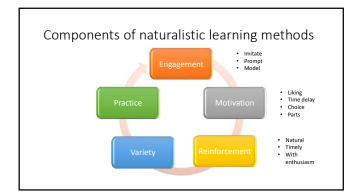
http://www.interactingwithautism.com/section/treating/jasper
(From 0148 to 0420)

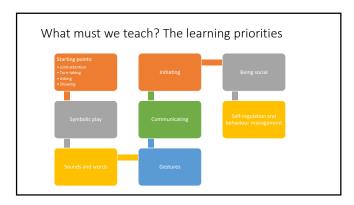
https://www.youtube.com/watch?v=unmxS2OYP2I&index=26&list=WL&t=0s (mother child preschool language impairment)

Sensory motor routine with a song:
https://www.youtube.com/watch?v=xuZrta3qj\_I&index=23&list=WL

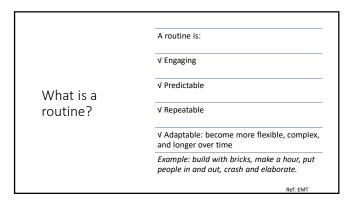


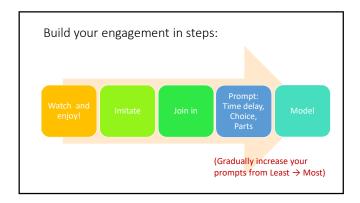


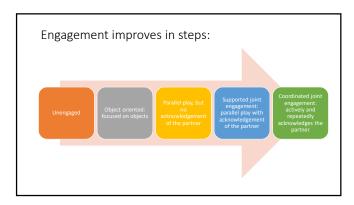




How can parents put this into practice? EmPOWER PREPARE ORGANISE WATCH **ENGAGE** REINFORCE Arrange the environment to provide the required stimulus to the child. Choose naturally occurring routines. Join in the Learn and Follow the Reward the practice becoming sensitive and child's lead, learn the child's interests and child's activity: imitate, model, respond; don't child's effort, provide immediate and respond; don't be intrusive or directive. Establish interactive routines. Use responsive.
Make targets
appropriate for
the child. preferences, and pick up communication cues. natural rewards enthusiastically. Remove distractions prompts.







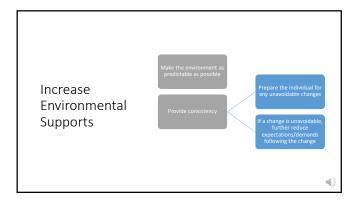


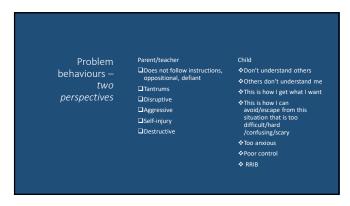
Sensory stressors e.g. noise, crowd, light,

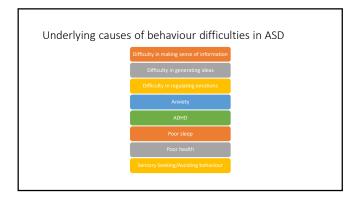
Supporting behaviour - reducing stressors

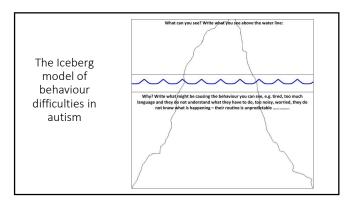
Demand stressors: homework, getting ready to go

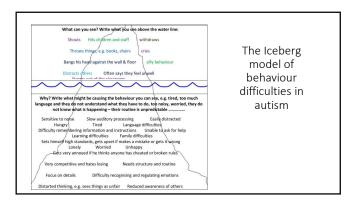
Social stressors: family agenda, new people, teasing, bullying













Problem behaviours in ASD - Psychosocial management

There are two approaches one has to take simultaneously:

Manage the problem behaviour:

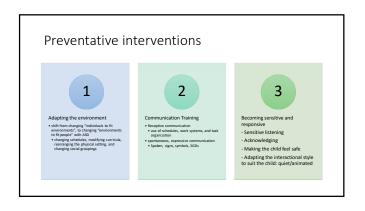
• Keep the child and others safe; use behaviour management strategies.

Develop positive and pro-social behaviour

• Improve communication and social skills

• Develop skills for coping with anxiety

The research evidence suggests that interventions that do not address the development of positive and prosocial behaviours will be unsuccessful in the long-term elimination of problem behaviours.



## Teaching alternative behaviours -1

### **Consequence-Based Approaches**

Behaviour (e.g., running around the house instead of going to the door)

Consequences: reinforcement, e.g., mother makes a game of chasing the child to get him into the car  $\,$ 

This approach can be used to

decrease the problem behaviour by changing the consequences of the behaviour that are thought to be reinforcing (extinction-based procedures).

encourage the development of alternative behaviours that are incompatible with the problem behaviour (differential reinforcement of alternative behaviour).

## Teaching alternative behaviours -2

avoidance; escape from difficult or boring tasks or other aversive situations; access to desirable tangible items and preferred activities;

Altering antecedents or consequences that can give the child the same "payoff" he or she received from the previous problem behaviour-

# Teaching alternative behaviours -3

- Fun activities

- Waiting • Control
- Deep breathing
- · Listening to music
- Using sensory alternatives

## Medications to Reduce Behaviour Problems

No medication

• e.g. agitation, hyperarousal, sleep disorder, perseverative behaviour,

For coexisting

• e.g. ADHD, depression, anxiety

Further reading: Pharmacologic treatment for the core deficits and associated symptoms of autism in children

## Anxiety – the commonest coexisting condition

### Caused by

- Change/uncertainty
- Social interactions
- Fear of failure / anticipatory
- Separation
- Sensory / information overload
- General diffuse

### Presents as

- Emotional outbursts
- Oppositional behaviour Challenging behaviour
- Repetitive / compulsive behaviour
- Physical symptoms

Managing anxiety - Prevent

Do enjoyable activities: reading, music, massage

7

Prepare, visual timetable, task breakdown

Clarify, remind, ease transition, support when needed

Anticipate: distract (sensory), reduce demands,

Allow escape, give time and space, set up rpoutine

Managing anxiety — using strategies

Learning to self-identify stress

Learning self-calming tools

Learning to cope — a menu of coping methods

Cognitive treatment strategies

Medication

Alternative
Therapies
unproved

Gluten-Casein Free Diet

• Based on toxicologic opioid hypothesis

Nutritional Supplements

• Based on hypothesis that minerals and/or vitamins improve "autistic behaviors"

Immune globulin therapy

• Based on assumption Autism is an autoimmune abnormality

Secretin

• Intravenous hormone that stimulates pancreas and liver to manage "autistic behaviors"

Chelation

• Based on hypothesis that mercury exposure is cause of Autism

Supporting parents

Social, financial and emotional support

Continuity of care

Outcomes

Outcomes in ASD are variable, depending on the child's abilities and the help given

A better outcome is, at least partly, related to a better intellectual ability

The focus in outcomes should be on improving the child's independence and Quality of Life for the child and the family.