





NHS

PACT evidence based intervention for autistic children

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PACT - A paradigm shift from behavioural to developmentally informed intervention

- Intervention science 2000-2022
- Theoretical and empirical background
- Developmentally informed
- Relational approach
- Measurable individual profile/specification
- Enhances individual attributes
- Manual and training to fidelity
- Optimal case management (adapted to online delivery)
- Early intervention & prevention of distress behaviours

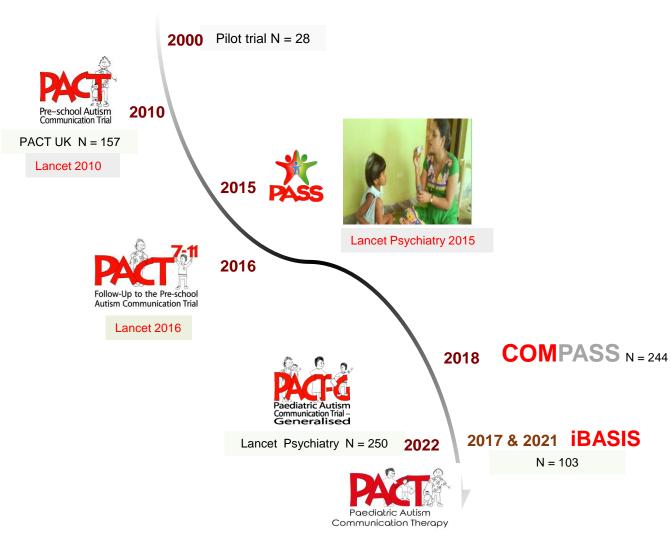






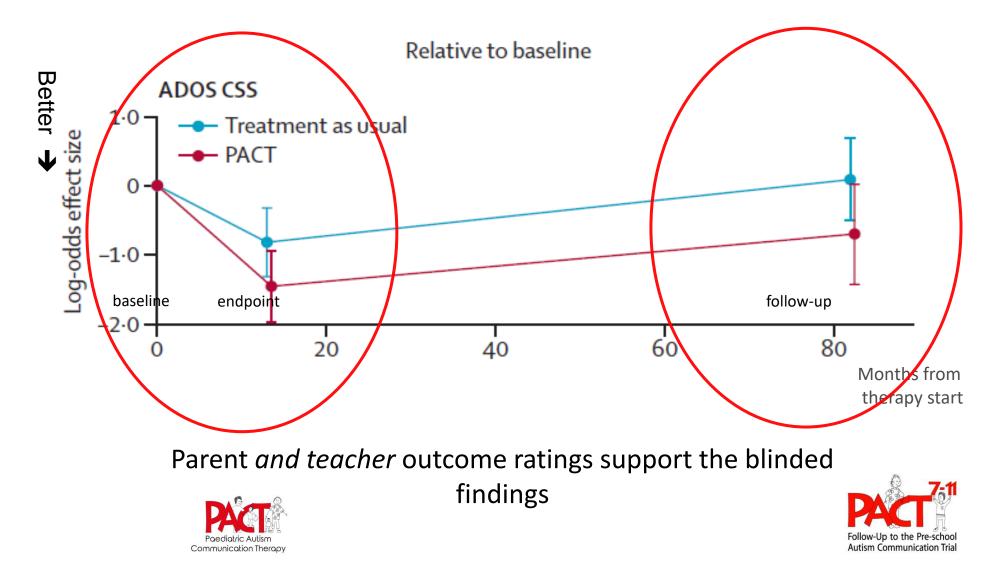


PACT over 20 years successive research

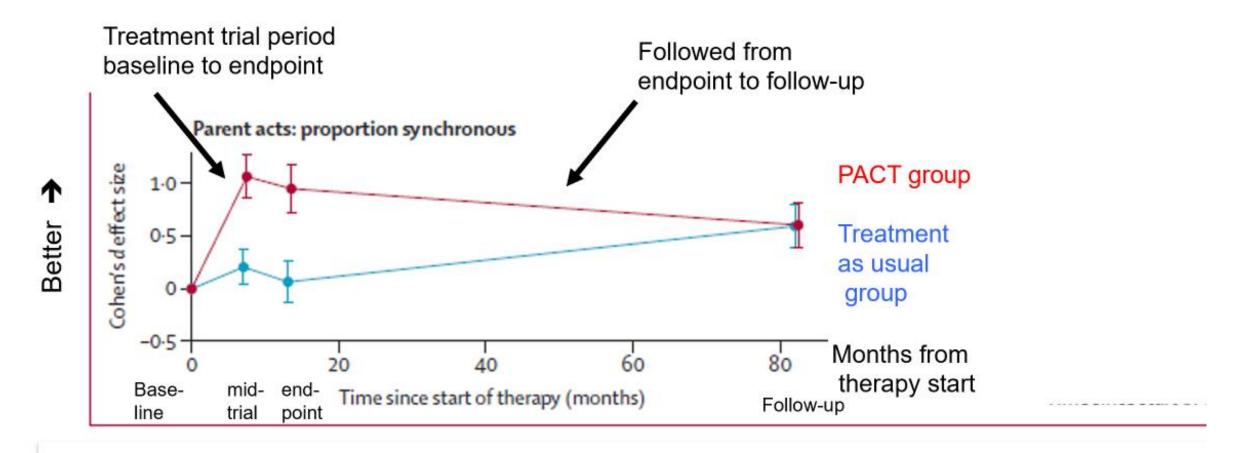


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PACT trial time path of autism symptom severity



Effect of Therapy on Parent Behaviour





PACT Mediation analysis (Pickles et al 2015) analyses the mechanism of change



Parental synchrony change 70% increase in parent synchrony mediated change in child communication

Child communication change 73% increase in child communication mediated change in child autism symptoms on ADOS





Long-term changeresulted in 6 year sustained increase in child social communication functioning



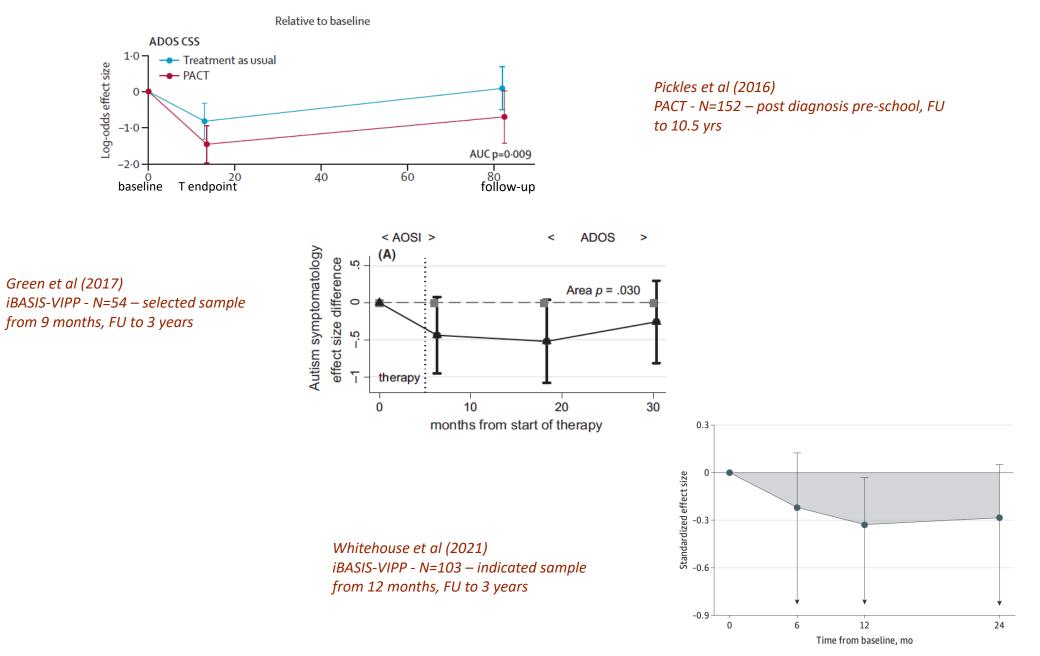


The first intervention to show impact to improve autism symptoms, adaptive function and family functioning sustained 6 yrs after treatment end

UK NIHR 'Signal' study for high quality design and relevance to decision makers *NICE Guideline* 170 (2013) consider recommendation; *UK National ASD* curriculum recommendation

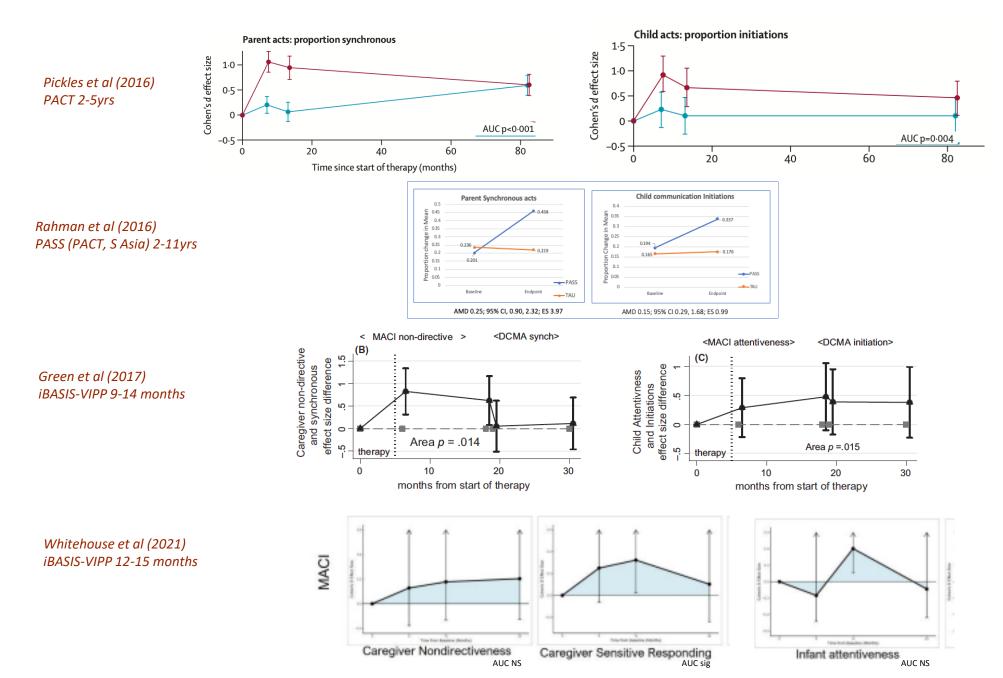
Early support within context of Case Management and treatment of co-occurring conditions/problems.

Comparative effects of PMI on symptom outcome across development and samples



Area p=0.04

Comparative effects of PMI on **dyad interaction** across development and samples



Implications of reduction in clinical diagnosis (Whitehouse et al)

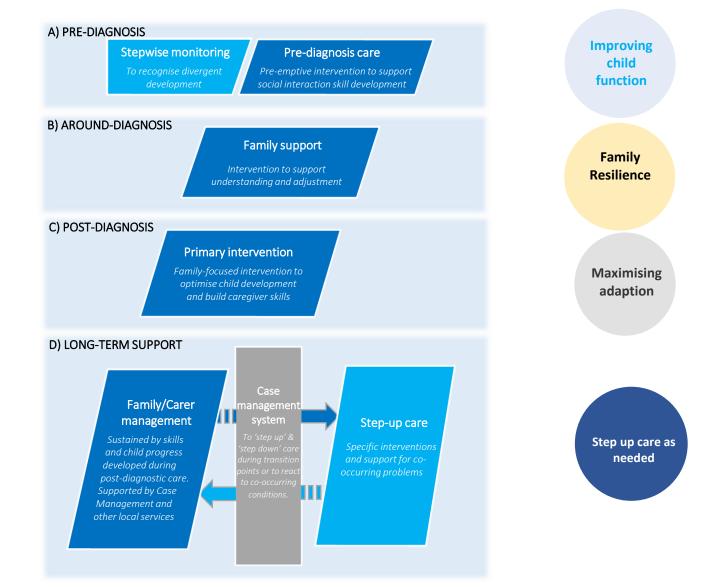
- First pre-emption to phenotypic reduction in autism
 - Needs replication and follow-up....
- Developmental science implications
 - The phenotype is to some extent malleable as well as emergent
 - An outcome of early transaction between neurodiverse brain/mind and social environment (the theoretical foundation of the intervention)
- Significant public health implications internationally
- Concerns from some in autism community and parents
 - Impact on access to services through diagnosis
 - Impact on autism identity
 - This is not a behavior modification intervention, normalizing autistic behaviours
 - It is a transactional intervention focus on honoring diversity and maximizing adaptation to it....the positive outcomes are consequent to this

Intervention criteria

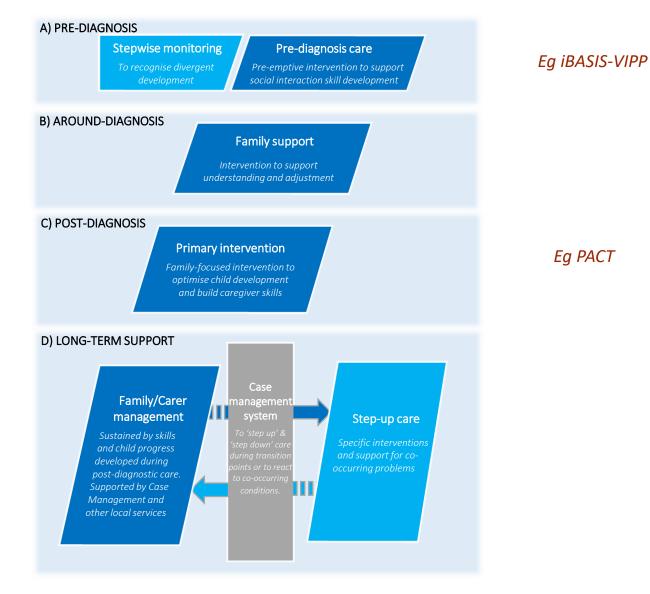
- Treatment effects (PACT/PASS) not effected by social economic, education, culture, ethnicity
- Intervention adapted for parents on autistic spectrum
- No trial evidence of adverse effects
- Efficient, accessible and adapted for online teleconference delivery
- Proven feasible for delivered in health and education settings
- Qualitative studies of patient experience (Leadbitter et al 2020)
 - Lightbulb moments of child recognition and relatedness
 - Pressure of time on occasion

Health system innovation - Integrated care pathway

A developmentally-phased pathway young autistic children



A developmentally-phased pathway young autistic children



Health system provision to make such a model possible

Integrated detection and response

Online registration, family inclusion, symptom monitoring, case management

Specialist step-up services within integrated autism teams in an area



PACT training



Level 1 PACT e-learning (90 minutes) Hogrefe: https://www.hogrefe.co.uk/e-learning/pacte-learning-information

Level 2 PACT accreditation training

(2-day training +post-course work) IMPACT https://www.pacttraining.co.uk

Complete with:

- PACT Manual
- PACT Forms



hogrefe

Autism Spectrum Disorder Assessments and Training



Paediatric Autism Communication Therapy (PACT)

Level 1: e-learning

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PACT (Paediatric Autism Communication Therapy)

- <u>Evidenced</u> PACT robust evidence of long-term improved child social communication
- <u>Structured method</u> manualised protocol, six steps programme with measures, using video feedback of adult: child interaction
- Versatile delivered via online /live therapy
- <u>Gerenalised</u> Parents and education are the primary recipients of intervention to embed skills and strategies in daily 30-minute sessions and eventually throughout the child's day

Parent quote: 'The PACT Programme is simple and easy to incorporate into family life and gives you skills to take forward to apply for the future'.





Benefits to autistic child & family

- Be understood & understand others
- Competence- active communicative initiations
- Relatedness connection, social engagement
- Autonomy (positive attributes identified)
- A supportive environment
- Enhanced frequency and range of communication
- Improves relationships
- Reduced distress related repetitive behaviours











Thank you

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www.pacttraining.co.uk

http://research.bmh.manchester.ac.uk/pact/TrainingPACT/



Central Manchester University Hospitals NHS Foundation Trust



autistica

Science in the Service of Autism





