

Supplemental Material S3. GRADE CERQual Full Evidence Profile

Readiness

Coming to terms with a child’s disability

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 1: Parents may be feeling overwhelmed by their child’s diagnosis at the beginning of the intervention	Amsbary, 2020; Amsbary, 2019; Bloxam, 2015; Carr, 2011; Coletti, 2011; Donaldson, 2011; Kinnard, 2014; Leadbitter, 2020; Manohar, 2020; Meadan, 2019; Patterson, 2011; Pennington, 2009; Pickard, 2016; Schertz, 2005, 2007; Stahmer, 2017	Minor concerns based on the assessment of 6 studies with no, 5 with minor, and 4 with moderate methodological limitations	Minor concerns	Minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	No or very minor concerns	High confidence	No or very minor concerns regarding adequacy; minor concerns regarding coherence, relevance and methodological limitations
Finding 2: Parents may have underlying emotional needs at the beginning of the intervention linked to their child’s communication and behavioural difficulties	Amsbary, 2020; Amsbary, 2019; Bloxam, 2015; Carr, 2011; Daczewitz, 2015; Faldt, 2020; Meadan, 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Schertz, 2005, 2007	Minor concerns based on the assessment of 4 studies with no, 4 with minor, 2 with moderate, and one with serious methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	No or very minor concerns	High confidence	Minor concerns regarding methodological limitations; no or very minor concerns regarding coherence, relevance and adequacy

Competing Demands

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 3: Parents who have competing demands on their time may find it difficult to engage with PCIT	Amsbary, 2020; Amsbary, 2019; Bloxam, 2015; Carr, 2011; Coletti, 2011; Daczewitz, 2015; Faldt, 2020; Kinnard, 2014; Kummerer, 2009; Leadbitter, 2020; Manohar, 2020; Meaden, 2015; Mendez, 2019; Patterson, 2011; Pennington, 2009; Pickard, 2016; Schertz, 2005; Senent-Capuz, 2020; Shamsudin, 2021; Stahmer, 2017; Stockwell, 2019; Waddington, 2020	No or very minor concerns based on the assessment of 9 studies with no, 8 with minor, 4 with moderate, and one with serious methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	No or very minor concerns	High confidence	No or very minor concerns regarding methodological limitations, coherence, relevance and adequacy

Parental Expectations

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 4: It may be helpful to explore parental expectations about the intervention in	Amsbary, 2020; Bloxam, 2015; Coletti, 2011; Daczewitz, 2015; Faldt, 2020; Kinnard, 2014; Kummerer, 2006,	No or very minor concerns based on the assessment of 9 studies with no, 4 with minor,	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread	No or very minor concerns	High confidence	No or very minor concerns regarding methodological limitations, coherence, relevance and adequacy

advance intervention.	2007, 2009; Leadbitter, 2020; Levickis, 2020; Meaden, 2015; Patterson, 2011; Pennington, 2009; Shamsudin, 2021; Stahmer, 2017	and one with serious methodological limitations		Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups			
Finding 5: Clarity on the roles that parents and clinicians play in PCIT interventions may facilitate readiness.	Amsbary, 2019; Bloxam, 2015; Carr, 2011; Coletti, 2011; Faldt, 2020; Kinnard, 2014; Leadbitter, 2020; Levickis, 2020; Meadan, 2019; Meaden, 2015; Mendez, 2019; Patterson, 2011; Pennington, 2009; Schertz, 2005; Senent-Capuz, 2020; Stahmer, 2017	No or very minor concerns based on the assessment of 9 studies with no, 4 with minor and three with moderate methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	Minor concerns (data is rich from some, thin from others)	High confidence	Minor concerns regarding and adequacy; no or very minor concerns regarding methodological limitations, coherence, and relevance

Engagement

Tailored to needs and preferences

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 6: Parents may be more likely to engage with the intervention when it is oriented to	Amsbary, 2019, 2020; Bloxam, 2015; Carr, 2011; Coletti, 2011; Faldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014; Kummerer, 2006;	Minor concerns based on the assessment of 7 studies with no, 8 with minor, and four with moderate	Minor concerns	Minor concerns regarding relevance as studies had good geographical spread	No or very minor concerns	High confidence	Minor concerns regarding methodological limitations coherence and relevance; no or very minor concerns regarding adequacy

their family routines.	Manohar, 2020; Meaden, 2015; Mendez, 2019; Pennington, 2009; Pickard, 2016; Schertz, 2005; Shamsudin, 2021; Stahmer, 2017; Stockwell, 2019; Waddington, 2020	methodological limitations		Included a good range of diagnoses (although dominated by ASD) Participants included participants from a range of ethnic and SES groups			
Finding 7: Parents may be more likely to engage with an intervention when it is inclusive of their wider family and belief systems and delivered in their first language	Amsbary, 2019, 2020; Carr, 2011; Coletti, 2011; Daczewitz, 2015; Faldt, 2020; Kinnard 2014; Kummerer, 2006, 2007, 2009; Manohar, 2020; Meadan 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Senent-Capuz, 2020; Shamsudin, 2021; Waddington, 2020	Minor concerns based on the assessment of 8 studies with no, 5 with minor, two with moderate, and one with serious methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	No or very minor concerns	High confidence	Minor concerns regarding methodological limitations; no or very minor concerns regarding coherence, relevance and adequacy

Service delivery

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 8: Families with a reduced capacity to engage with the intervention due to social and economic challenges may	Amsbary, 2019; Carr, 2011; Manohar, 2020; Meadan, 2019; Mendez, 2019	Minor concerns based on the assessment of 1 studies with no, 3 with minor, and one with moderate	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread	Moderate concerns	Moderate confidence	Moderate concerns regarding adequacy; Minor concerns regarding methodological limitations and no or very minor concerns

benefit from additional support to enable them to attend.		methodological limitations		Included a good range of diagnoses Participants were from low income households, but from a range of ethnic groups			regarding coherence and adequacy
Finding 9: Group-based interventions may provide emotional and practical support for parents to share experiences with peers, but can be problematic when the children are of mixed ability.	Amsbary, 2019; Coletti, 2011; Faldt, 2020; Levickis, 2020; Manohar, 2020; Meadan 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Senent-Capuz, 2020	Minor concerns based on the assessment of 6 studies with no, 2 with minor, and 2 with moderate methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	No or very minor concerns	High confidence	Minor concerns regarding methodological limitations; no or very minor concerns regarding coherence, relevance and adequacy
Finding 10: Individual intervention sessions and home visits may be valued as a more personalized approach for families	Amsbary, 2019; Carr 2011; Coletti, 2011; Faldt, 2020; Kinnard, 2014; Kummerer, 2006; Leadbitter, 2020; Levickis, 2020; Meadan, 2015, 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Senent-Capuz, 2020; Shamsudin, 2021; Waddington, 2020	No or very minor concerns based on the assessment of 10 studies with no, 4 with minor, and 2 with moderate methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included	Minor concerns	High confidence	Minor concerns regarding adequacy; no or very minor concerns regarding methodological limitations, coherence and relevance

				participants from a range of ethnic and SES groups			
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Teaching and Learning

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 11: Parents prefer to see PCIT strategies modelled by the therapist with their child before they practice them and value constructive feedback.	Amsbary, 2019; Coletti, 2011; Faldt, 2020; Levickis, 2020; Manohar, 2020; Meadan 2019; Meaden, 2015; Patterson, 2011; Pickard, 2016; Senent-Capuz, 2020; Stahmer, 2017; Waddington, 2020	Minor concerns based on the assessment of 5 studies with no, 4 with minor, and 3 with moderate methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants included participants from a range of ethnic and SES groups	Minor concerns	High confidence	Minor concerns regarding methodological limitations and adequacy; no or very minor concerns regarding coherence and relevance
Finding 12: Video feedback on parental implementation of the strategies with their child are perceived as a useful learning tool, although can be uncomfortable for parents.	Amsbary, 2020; Bloxam, 2015; Coletti, 2011; Faldt, 2020; Kinnard, 2014; Leadbitter, 2020; Meaden, 2015; Mendez, 2019; Pennington, 2009; Senent-Capuz, 2020; Stockwell, 2019	Minor concerns based on the assessment of 5 studies with no, 3 with minor, and 3 with moderate methodological limitations	Minor concerns (6 studies report mixed findings; 2 mainly reported challenges; 1 mainly positive and one mainly negative)	Minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses	No or very minor concerns	High confidence	Minor concerns about methodological limitations; minor concerns regarding coherence, relevance and adequacy.

				Participants from range of ethnic and SES groups			
Finding 13: Teaching strategies and materials such as video examples and role play are valued when made relevant to families and provided in a written format	Amsbary, 2019, 2020; Coletti, 2011; Daczewitz, 2015; Faldt, 2020; Manohar, 2020; Meadan, 2015, 2019; Mendez, 2019; Pennington, 2009; Senent-Capuz, 2020; Stahmer, 2017; Stockwell, 2019	Minor concerns based on the assessment of 3 studies with no, 6 with minor, 2 with moderate, and one with serious methodological limitations	Minor concerns based on all studies reporting value of teaching and learning methods and five reporting importance of written materials	Minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups	Minor concerns	High confidence	Minor concerns regarding methodological limitations; adequacy coherence and relevance
Finding 14: Parents appeared to value and use strategies that they believed had positive impacts on their children's communication	Amsbary, 2019; Bloxam, 2015; Coletti, 2011; Daczewitz, 2015; Donaldson, 2011; Faldt, 2020; Kinnard, 2014; Kummerer, 2006; Leadbitter, 2020; Meaden, 2015; Mendez, 2019; Senent-Capuz, 2020; Shamsudin, 2021; Waddington, 2020	No or very minor concerns based on the assessment of 8 studies with no, 3 with minor, 2 with moderate, and one with serious methodological limitations	No or very minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups	No or very minor concerns	High confidence	No or very minor concerns regarding methodological limitations, coherence, relevance and adequacy
Finding 15: Using technology may provide practical benefits for some	Aggarwal, 2015; Amsbary, 2019; Daczewitz, 2015; Faldt, 2020; Mendez,	Moderate concerns based on the assessment of 2	Minor concerns	Minor concerns regarding relevance as studies had good	Minor concerns	Moderate confidence	Moderate concerns about methodological limitations; minor concerns about

families to engaging with the intervention, although also presents challenges when compared to face to face intervention.	2019; Pickard, 2016; Stockwell, 2019	with no, 1 with minor, 3 with moderate concerns, and one with serious methodological limitations		geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups			coherence relevance and t adequacy
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Therapeutic Relationship

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 16: Parental engagement and experience of the intervention may be improved when they, and their child have good relationship with the therapist.	Amsbary, 2020; Amsbary, 2019; Carr, 2011; Coletti, 2011; Faldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014; Leadbitter, 2020; Levickis, 2020; Pennington, 2009; Senent-Capuz, 2020; Stahmer, 2017; Stockwell, 2019; Waddington, 2020	Minor concerns based on the assessment of 7 with no, 4 with minor, and 3 with moderate methodological limitations	Minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups	Minor concerns	High confidence	No or very minor concerns regarding relevant; minor concerns regarding methodological limitations, adequacy and coherence,

Impact

Changes in the child

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
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<p>Finding 17: Most parents report improvement in their child's communication, and associated skills following PCIT (level of confidence xyz)</p>	<p>Amsbary, 2019, 2020; Carr, 2011; Coletti, 2011; Donaldson, 2011; Faldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014; Kummerer, 2007, 2009; Leadbitter, 2020; Levickis, 2020; Manohar, 2020; Meadan, 2015, 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Pickard, 2016; Schertz, 2005, 2007; Senent-Capuz, 2020; Shamsudin, 2021; Stahmer, 2017; Waddington, 2020</p>	<p>No or very minor concerns based on the assessment of 10 studies with no, 7 with minor, and 6 with moderate methodological limitations.</p>	<p>Minor concerns</p>	<p>No or very minor concerns regarding relevance as studies had good geographical spread</p> <p>Included a good range of diagnoses</p> <p>Participants from range of ethnic and SES groups</p>	<p>Minor concerns</p>	<p>High confidence</p>	<p>No or very minor concerns regarding methodological limitations and relevance, Minor concerns regarding coherence and adequacy</p>
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Parental empowerment and wellbeing

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
<p>Finding 18: Parents may feel empowered after taking part in PCIT due to their increased knowledge and skills in promoting communication development</p>	<p>Amsbary, 2019, 2020; Bloxam, 2015; Carr, 2011; Coletti, 2011; Daczewitz, 2015; Donaldson, 2011; Faldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014; Kummerer, 2006; Leadbitter, 2020;</p>	<p>Minor concerns based on the assessment of 10 with no, 7 with minor, 7 with moderate, and 1 with serious methodological limitations</p>	<p>Minor concerns</p>	<p>No or very minor concerns regarding relevance as studies had good geographical spread</p> <p>Included a good range of diagnoses</p>	<p>No or very minor concerns</p>	<p>High confidence</p>	<p>No or very minor concerns regarding methodological limitations, relevance and adequacy, minor concerns coherence</p>

	Levickis, 2020; Manohar, 2020; Meadan, 2015, 2019; Mendez, 2019; Patterson, 2011; Pennington, 2009; Pickard, 2016; Schertz, 2005, 2007; Senent-Capuz, 2020; Shamsudin, 2021; Stahmer, 2017; Stockwell, 2019			Participants from range of ethnic and SES groups			
Finding 19: Parent’s describe an increased understanding of their child and their needs after taking part in the intervention which helps them to advocate for their child	Amsbary, 2020; Bloxam, 2015; Carr, 2011; Coletti, 2011; Daczewitz, 2015; Falldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014; Kummerer, 2006; Leadbitter, 2020; Manohar, 2020; Meadan, 2015, 2019; Pennington, 2009; Pickard, 2016; Schertz, 2005, 2007; Senent-Capuz, 2020; Stahmer, 2017	Minor concerns based on the assessment 6 with no, 6 with minor, 5 with moderate, and 1 with serious methodological limitations	Minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups	Minor concerns	High confidence	No or very minor concerns regarding methodological limitations ; minor concerns regarding coherence, relevance and adequacy
Finding 20: After taking part in PCIT interventions, parents perceived an increase in their confidence and stronger relationships with their children	Amsbary, 2020; Amsbary, 2019; Bloxam, 2015; Carr, 2011; Coletti, 2011; Daczewitz, 2015; Donaldson, 2011; Falldt, 2020; Frugone Jarmillo, 2020; Kinnard, 2014;	Minor concerns based on the assessment 9 with no, 6 with minor, 6 with moderate, and 1 with serious methodological limitations	Minor concerns	No or very minor concerns regarding relevance as studies had good geographical spread	Minor concerns	High confidence	No or very minor concerns regarding methodological limitations and relevance, minor concerns regarding coherence and adequacy

which affected their overall wellbeing.	Kummerer, 2009; Leadbitter, 2020; Levickis, 2020; Manohar, 2020; Meadan, 2015, 2019; Pennington, 2009; Pickard, 2016; Schertz, 2005, 2007; Senent-Capuz, 2020; Shamsudin, 2021; Stahmer, 2017			Included a good range of diagnoses Participants from range of ethnic and SES groups			
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Transitions

Summary of review finding	Studies contributing to the review finding	Methodological limitations	Coherence	Relevance	Adequacy	CERQual assessment of confidence in the evidence	Explanation of CERQual assessment
Finding 21: At the end of PCIT interventions, parents may need continued support and guidance for transitioning from the intervention	Amsbary, 2020; Amsbary, 2019; Carr, 2011; Faldt, 2020; Kinnard, 2014; Levickis, 2020; Manohar, 2020; Meadan, 2019; Mendez, 2019; Patterson, 2011; Senent-Capuz, 2020; Stahmer, 2017; Waddington, 2020	Minor concerns based on the assessment of 5 with no, 7 with minor, and 5 with moderate methodological limitations	Minor concerns	Minor concerns regarding relevance as studies had good geographical spread Included a good range of diagnoses Participants from range of ethnic and SES groups	Minor concerns	High confidence	Minor concerns regarding methodological limitations, coherence, relevance and adequacy