Anxiety disorders in children and adolescents

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Anxiety disorders are highly prevalent in children and adolescents and GPs play an important role in identifying and initiating management of such patients. Clinical presentations and the extent of anxiety can be successfully measured using reliable validated questionnaires, such as the Revised Child Anxiety and Depression Scale. Cognitive behavioural therapy is the first-line treatment, with the goal of remission and functional improvement.

A nxiety lies on a spectrum that runs from normal worry to transient anxiety, through to severe and disabling symptoms.¹ Normal anxiety does not interfere in functioning and can be helpful, for example, by motivating a child to work towards a goal or avoiding a potential threat. The fears of children and adolescents with anxiety disorders differ from normative worries in that anxiety disorder symptoms are persistent and associated with marked distress in addition to avoidance of triggering situations. This all amounts to

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Anxiety disorders are estimated to occur in 7% of children and adolescents in Australia within a 12-month period.² Separation anxiety, specific phobia, social phobia and generalised anxiety are the most prevalent anxiety disorders. Typically, anxiety disorders are found to be more common in girls than boys.³ The presence of one anxiety disorder predicts the co-occurrence of other anxiety disorders, major depressive disorder, attention- deficit hyperactivity disorder and oppositional defiance disorder.^{2,4,5} Anxiety disorders are associated with significant emotional and financial cost to individuals, their families and wider society.^{2,6,7} This includes an average of three weeks of missed school per year, a sixfold increase in the likelihood of a suicide attempt and later substance and alcohol abuse.8,9 Anxiety disorders in childhood can persist into adulthood if left untreated.10



Assessment Clinical presentation

Children and adolescents experience seven types of anxiety disorders: separation anxiety, specific phobia, social anxiety generalised anxiety, selective mutism, agoraphobia and panic disorder. Clinical features common to all these conditions involve excessive fear and related behavioural disturbances,

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particularly avoidance or safety behaviours (i.e. behaviours to prevent the feared situation from coming true). However, these diagnoses are differentiated by the content of the fear and developmental characteristics (Table 1). Obsessive compulsive disorder (OCD) and post-traumatic stress disorder (PTSD) are no longer technically classified as anxiety disorders.¹¹ Children may also express feelings of anxiety through crying, tantrums or freezing. Physical symptoms may also be present – particularly in anticipation of the feared situation – and include muscle tension, stomach ache, loss of appetite, headache, restlessness or insomnia. Young children will often report somatic symptoms rather than verbalising their worry,

KEY POINTS

- Anxiety disorders in children and adolescents are common and disabling, but often underrecognised and poorly treated.
- Fears and worries are common and developmentally normal in children.
- Duration, distress and impairment are the markers of clinical threshold.
- Anxiety disorders often co-occur with other conditions, and these should be routinely screened for.
- Self-reported or parent-reported measures of symptoms and function enable detection and monitoring.
- Cognitive behavioural therapy (CBT) is the first-line treatment for anxiety disorders, with the goal of sustained remission or functional improvement.
- Exposure is the active ingredient in CBT and referrals should be made to professionals who deliver exposure-based treatment.

which can lead to challenges and delays in detecting an anxiety disorder.

Developmental considerations

Fears and worries are developmentally normal (Figure), and the clinical threshold can be elusive.^{1,12} Separation anxiety typically begins in the preschool years, when many children are clingy when separating from caregivers as an adaptive formation of emotional bonds. Similarly, social anxiety often presents in late childhood or early adolescence alongside the typical increase in social awareness, independence and establishment of new peer groups. Generalised anxiety tends to emerge in later adolescence and into early adulthood as independence and general life pressures increase.

Attending to the following transdiagnostic markers of pathology can help to identify an anxiety disorder (Table 2):

 duration of anxiety – typically lasting at least six months

- level of distress significantly greater than other children their own age or out of proportion to the fear
- level of impairment interferes significantly in the child's and/or family's everyday functioning.

Obtaining an anxiety diagnosis has the benefit of guiding the child towards suitable treatment and may help to reduce stigma associated with anxiety symptoms.

Identification

Psychometrically reliable and valid questionnaires that measure symptoms and impact on functioning can be used to screen for and assess treatment response in anxiety disorders. Use of both parent or caregiver and child report measures enables a comprehensive understanding of the child's symptoms. Obtaining a self-report for older children and adolescents is essential given the internalising nature of symptoms.

The Revised Child Anxiety and Depression Scale – Short Version is a 25-item tool validated to assess for symptoms of both anxiety (15 items) and depression (10 items) in children and adolescents aged 8 to 18 years.^{13,14} Each item is scored a value between 0 and 3 (where 0 = never, 1 = sometimes, 2 = often and 3 = always). There are parent-report and self-report versions. The scores for the items

measuring anxiety are summed and converted to T-scores using available online scoring programs (Table 3).¹³⁻¹⁵ A T-score of 65 or above (equivalent to 1.5 standard deviations above the mean) indicates the need for referral of the patient for a more detailed assessment.

Diagnosis

A standardised diagnostic interview, such as the Anxiety Disorders Interview Schedule for children and parents (ADIS-C/P), is the gold-standard method for assessing anxiety disorders in children and adolescents. However, although standardised assessments are commonly used in research trials, they are rarely

TABLE 1. CLINICAL FEATURES OF CHILDHOOD ANXIETY DISORDERS				
Diagnosis	Feared outcome	Triggers/settings	Differential diagnosis	
Separation anxiety disorder	Severe harm or death to self or caregiver	 Sleepovers Lights out Excursions School drop off 	 Attachment disorder Post-traumatic stress disorder (PTSD) Social anxiety disorder (SAD) 	
Specific phobia	Being harmed by a particular object or situation	 Animals (e.g. spiders, dogs) Natural forces (e.g. heights, storms, fire) Blood injection injury (e.g. needles) Situations (e.g. planes, enclosed spaces) 	PTSDPanic disorderAgoraphobia	
Social anxiety disorder (social phobia)	 Negative evaluation from others including being embarrassed, humiliated or rejected 	 Parties Sports or swimming carnivals Having a photo taken Public speaking events 	 Autism spectrum disorder Generalised anxiety disorder Major depressive disorder (MDD) 	
Generalised anxiety disorder	 Various domains with a sense of being uncontrollable (i.e. there is nothing that the individual can do to stop the worry) Accompanied by three or more physical symptoms (e.g. restlessness, being on edge, fatigue or insomnia) 	 Perfectionism (e.g. being on time, keeping schedules, making mistakes, getting into trouble) School work (e.g. grades, homework) Health, own and significant others' Things going on in the world (e.g. war, natural disasters) Friendships (e.g. making friends, impressions) New unfamiliar situations 	 Obsessive compulsive disorder (OCD) SAD MDD 	
Selective mutism	 Initiating or reciprocally responding with speech 	SchoolPlaydates	 Communication disorders (e.g. stuttering) Neurodevelopmental disorder (e.g. autism spectrum disorder) 	
Agoraphobia	Inability to escape	 Public transport Open spaces Enclosed spaces Crowds or queues 	Specific phobiaSADPTSD	
Panic disorder	 Losing control, 'going crazy' or death 	 Physical exertion Being outside of the home Public transport Situations where it has occurred previously 	 Anxiety disorder due to another medical condition Specific phobia SAD 	

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Figure. Normative fears throughout childhood and adolescence.

Adapted from Beesdo-Baum K, Knappe S. Child Adolesc Psychiatr Clin N Am 2012; and Craske MG, Stein MB. Lancet 2016.^{1.12}

used in clinical settings. Pragmatically, a diagnosis is usually made by clinical history and assessment to screen for symptoms aligning with the *Diagnostic and Statistical Manual of Mental Disorders*, 5th ed (*DSM-5*) criteria (Table 4), while ruling out differential diagnoses (Table 1).¹¹ For diagnosis under a Mental Health Treatment Plan (MHTP), International Classification of Primary Care (ICPC) codes are used. Assessment of suicidal and self-harm risk might also be warranted, particularly for adolescents. Factors to consider as part of a comprehensive assessment of anxiety disorders in children and adolescents are listed in Box 1. Making time to listen to the young person and their parents is important to provide them with insight into their experiences and differentiate between symptoms.

It can sometimes be helpful to normalise symptoms and screen for anxiety subtypes before probing further, by asking questions such as 'Some kids (teenagers) feel really scared and uncomfortable in situations with other people, so scared and uncomfortable that they might want to stay away from these places. Is this something that happens to you?'. The assessment should be conducted with both the child and the parents to give a richer understanding of the child's symptoms. Offering to conduct some of the assessment with the child separately from the parents may also be important, particularly for older children and adolescents, to provide them with the opportunity to disclose symptoms that they may be reluctant to share in front of their parents, such as worries about their family.

TABLE 2. DIAGNOSTIC MARKERS OF CHILDHOOD ANXIETY DISORDERS					
	Diagnostic marker	When might an anxiety diagnosis be warranted?			
	Impairment	Child and/or family are less able to participate in activities that they want to, such as school or social events			
	Distress	Child's behaviour is very different to others the same age and level of distress or reaction is disproportionate to the fear. For example, it is difficult for the child to settle when anxious or worried or the child exhibits excessive reassurance seeking that does not reduce the child's anxiety			
	Duration	Ranges from four weeks (separation anxiety) to six months or more (specific phobia, social anxiety and generalised anxiety)			

Comorbidity

Comorbidities are common in people with anxiety disorders and should routinely be screened for. Major depressive disorder often co-occurs with anxiety disorders, particularly in adolescents.¹⁶ Anxiety disorders also commonly co-occur with neurodevelopmental conditions such as attention deficit hyperactivity disorder, OCD and autism spectrum disorder.¹⁷ PTSD symptoms, such as avoidance, can appear quite similar to anxiety symptoms. Children who experience a significant adverse life event (e.g. child maltreatment)

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TABLE 3. CHILD AND ADOLESCENT ANXIETY SYMPTOM AND INTERFERENCE MEASURES AND SCORING INSTRUMENTS					
Measure	Child report	Parent* report			
Revised Child Anxiety and Depression Scale – Short Form ^{13,14}	 Child report measure: https://www.childfirst.ucla. edu/wp-content/uploads/sites/163/2018/03/ RCADS25-Youth-English-2018.pdf Child scorer: https://www.childfirst.ucla.edu/wp- content/uploads/sites/163/2018/03/RCADSC- Scoring-Program-Version-3.1-25-item-short- version-2015_11_26.xls 	 Parent report measure: https://www.childfirst.ucla. edu/wp-content/uploads/sites/163/2018/03/ RCADS25-Caregiver-English-2018.pdf Parent scorer: https://www.childfirst.ucla.edu/ wp-content/uploads/sites/163/2018/03/RCADSP- Scoring-Program-Version-3.1-25-item-short- version-2016_01_29.xls 			
Children's Anxiety • Child report measure: https://www.mq.edu.au/data/ Life Interference assets/pdf_file/0005/86774/CALIS_ChildReport_ Scale ¹⁵ 2015_copyright_BC0278_Approved_RD.pdf		• Parent report measure: https://www.mq.edu.au/ data/assets/pdf_file/0008/214874/CALIS_ Parent_2016_copyright_BC0278_Approved_RD.pdf			

* The term 'parent' refers to a wide range of people in a caregiving role in relation to the child or adolescent.

are at greater risk of developing both PTSD and an anxiety disorder.18

Family history

Anxiety runs in families. Getting a family history informs the genetic risk of anxiety - which is increased by having a parent with an anxiety disorder - and psychosocial context, such as parenting behaviours that accommodate avoidance or anxious modelling.18,19

Management

Cognitive behavioural therapy

CBT is the recommended first-line treatment for children and adolescents with anxiety disorders.²⁰ It is the only evidencebased nonpharmacological treatment that has been found to be effective, with low attrition rates and high rates of response and remission (50%) when compared with patients on waiting lists for CBT and those on no treatment.²¹ Comorbidity only accounts for modest variability on remission in anxiety diagnoses across CBT studies.22

CBT helps children and young people with anxiety disorders to recognise and modify unhelpful thoughts, emotions and behaviours associated with their anxiety, and helps to maintain these changes. CBT is typically applied across a range of anxiety disorders, rather than being disorderspecific, targeting psychological processes that are shared across different anxiety problems, such as cognitive bias and

avoidance. It is a skills-based approach and includes psychoeducation, cognitive restructuring, exposure, problem solving and relapse prevention. Benefiting from CBT requires the young person to practice their skills regularly.

Exposure (i.e. facing anxiety-provoking situations) is the active ingredient of CBT and should be included in all standard CBT practices for young people with anxiety disorders.23 The goal of exposure is to overcome avoidance. Avoidance maintains the child's anxiety because the child is prevented from learning accurate information about the likelihood of something bad or dangerous happening and their ability to cope. Exposure serves to strengthen new memories about the feared event and weaken old memories. Exposure in CBT typically involves:

- understanding that avoidance serves to maintain anxiety and that exposure serves to reduce avoidance
- developing a hierarchy of fears rated from the least to the most fear-inducing
- conducting exposure tasks (in vivo, imaginal or parent-led) within and between sessions
- reducing family accommodation of avoidance.

Cognitive restructuring, which involves identifying and modifying anxious thoughts, can support exposure effectively.24 There is less evidence for the efficacy of other anxiety management

techniques, such as relaxation and problem-solving.^{25,26} There is no evidence to suggest that other nonpharmacological treatments for youth anxiety, such as mindfulness-based interventions, are beneficial for anxiety remission.27

Parents are usually included in CBT sessions for children. They may also be involved in treatment for adolescents, depending on their role in the child's anxiety and the young person's preference. If parents play a role in maintaining anxiety, such as through accommodating avoidance or modelling, then involving parents ensures that these factors can be addressed and monitored to avoid impacting on the child's treatment success.

CBT is typically delivered in around 10 weekly face-to-face (individual or group) one-hour sessions with a mental health professional, such as a psychologist. However, given the difficulties in accessing face-to-face treatment, including long waitlists and financial and time barriers, more accessible modes of treatment could be considered. Emerging evidence supports the efficacy of low-intensity CBT options, such as digital CBT, in preventing and treating anxiety disorders in young people.²⁸⁻³⁰ These options do not need a referral to a psychologist and can be accessed directly by families. However, to date, no digital CBT program has led to remission of anxiety disorders in a youth population. Selecting the appropriate treatment format to deliver CBT needs to be

1. ASSESSMENT OF ANXIETY DISORDERS IN CHILDREN AND ADOLESCENTS

- Symptom content, triggers, severity and duration
- Severity of avoidance, distress and functional impairment
- Presence of comorbid anxiety, mood or neurodevelopmental disorders
- Family history of mental health disorders, particularly anxiety
- History of childhood adversity
 (including parental separation or loss)
- Temperament, such as whether the child is excessively shy or inhibited
- Safety, including suicidal risk (when indicated)

based on a balance between evidence of efficacy, accessibility, patient preference, cost, symptom severity and comorbidity. Useful resources for children with anxiety and their family, including digital CBT programs, are listed in Box 2.

Relevant stakeholders

Anxiety symptoms are increasing in children and adolescents in Australia.³¹ The approach to treatment is a shared community responsibility, and an integrated response from school, family and medical professionals that encourages the child to approach their feared situations is a crucial part of intervention. Yet the likelihood of children with anxiety receiving evidence- based care, particularly exposure-based therapy, in the community is low.³² Choosing professionals who deliver evidence- and exposurebased care is important.

Children may exhibit anxiety symptoms close to the start of exams, and special provisions are often needed. Children or families needing a request for special provisions often seek input from a GP. This represents a critical point for intervention. However, if the anxiety emerges earlier then this provides an opportunity to ensure that the child receives evidencebased care that could remove the need for the provisions. In contrast to the goals of treatment, granting special provisions can send the message to the child that they are unable to cope, that anxiety cannot be managed and avoidance of the situation is the best option. However, if special provisions are the only option that allow the child to sit the exam, this is an important step as they move towards approach behaviours.

Pharmacotherapy

There is evidence for the use of selective serotonin reuptake inhibitors (SSRIs) in treating anxiety disorders in children and adolescents.³³ However, this evidence is limited in strength relative to similar conditions such as paediatric OCD.34 Given this limited evidence, there is a concerning trend of psychotropics being prescribed to children and adolescents with anxiety disorders. Antipsychotic medications, such as quetiapine in particular, carry substantive cardiometabolic risks relative to the lack of proven benefit. Use of SSRIs is associated with osteoporosis, a key concern in young women during their years of bone density accrual, although this is an uncommon adverse effect.35 Therefore, we suggest that, if CBT has achieved only a limited response, the patient be referred to a specialist, such as a developmental paediatrician or child and adolescent psychiatrist, for pharmacotherapy considerations.

Referral

Referrals to a mental health professional can be made via public services, such as state-funded child and youth mental health service, or private services. If referring to a private service, children and adolescents are eligible for a MHTP and 10 sessions per calendar year with a psychologist or mental health clinician (telehealth or face-to-face) subsidised by Medicare. GPs are required to conduct a review after six sessions. The Medicare Benefit Schedule criteria for a MHTP is available online (http://www9.health.gov.au/mbs/

2. RESOURCES FOR CHILDREN AND FAMILIES IN AUSTRALIA AND NEW ZEALAND

Helplines and online resources

Helplines or online resources for children, adolescents and parents include:

- Raising Healthy Kids Network: https://raisingchildren.net.au
- Kids Helpline: https://kidshelpline. com.au
- Phone: 1800 55 1800
- e-Headspace: https://headspace.org. au/our-services/eheadspace

Digital cognitive behavioural therapy programs

Digital cognitive behavioural therapy (dCBT) programs that have been shown to be effective for reducing anxiety symptoms in children with anxiety disorders are available at:

- The Brave Program (8 to 17 year olds): https://brave4you.psy.uq.edu.au
- Cool Little Kids Online (3 to 6 year olds): https://coollittlekids.org.au
- Cool Kids Anxiety Program (7 to 17 year olds): https://mq.edu.au/ ceh-clinic
- Chilled Out (13 to 17 year olds): https://mq.edu.au/ceh-clinic

fullDisplay.cfm?type=item&q=2715). A suggested template for a MHTP for children and adolescents is also available online (https://gplearning.racgp.org.au/ content/Headspace/Part1/GPMHTP_ child_adol.pdf).

When referring a patient to a specialist mental health professional, encourage the use of evidence-based care with a particular focus on exposure. Specify the content of the child's anxiety and provide information about avoidance, impact and suspected diagnoses. If known, provide additional information about the family context (e.g. parental mental health), adverse life events (e.g. parental separation) or child trauma history.

Follow up

The effectiveness of CBT should be reviewed after six sessions of regular

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TABLE 4. DIAGNOSTIC AND STATISTICAL MANUAL OF MENTAL DISORDERS, FIFTH EDITION (DSM-5) CRITERIA FOR COMMON CHILDHOOD ANXIETY DISORDERS¹¹

Diagnosis	Key criteria*	Timeframe*	Impairment and alternative explanations*		
Separation anxiety disorder	• Developmentally inappropriate and excessive fear or anxiety concerning separation to those whom child is attached (A)	At least four weeks (B)	 Causes significant distress or impairment in important areas of functioning (C) Disturbance is not better explained by the symptoms of another mental disorder (D) 		
Specific phobia	 Marked fear or anxiety about a specific object or situation (expressed in children by crying, tantrums, freezing or clinging) (A) Object or situation almost always provokes fear or anxiety (B) Object or situation is actively avoided or endured with intense fear or anxiety (C) Fear is out or proportion to actual risk (D) 	Six months or more (E)	 Causes significant distress or impairment in important areas of functioning (F) Disturbance is not better explained by the symptoms of another mental disorder (G) 		
Social anxiety disorder (social phobia)	 Marked fear or anxiety about one or more social situations in which scrutiny may occur; must occur in peer settings (not just with adults) (A) Fear of negative evaluation (B) Situation almost always provokes fear or anxiety (expressed in children by crying, tantrums, freezing, clinging or not speaking) (C) Social situation avoided or endured with intense fear (D) Fear is out of proportion to actual risk (E) 		 Causes significant distress or impairment in important areas of functioning (G) Disturbance is not better explained by the physiological effects of a substance (H), another mental disorder (I) or medical condition (J) 		
Generalised anxiety disorder	 Excessive anxiety or worry more days than not about a number of events or activities (A) Difficulty controlling the worry (B) Associated with three or more of the following symptoms: restlessness, easily fatigued, difficulty concentrating or mind going blank, irritability, muscle tension, sleep disturbance (C) 	Six months or more (C)	 Causes significant distress or impairment in important areas of functioning (D) Disturbance is not better explained by the physiological effects of a substance or medical condition (E) or another mental disorder (F) 		
* Letters in nare	* Letters in parentheses refer to specific DSM-5 criteria				

(preferably weekly) CBT or four to six weeks of pharmacotherapy. Information about graded exposure to feared situations should be checked. Self- or parent-report measures can be used to monitor change and are often helpful for both patients (including parents) and GPs (Table 3).

Education

It can be helpful to let the child and family know that fear and worries are a normal part of development. This information is beneficial because the child and family often feel that what they are experiencing is unique to them. If you suspect a diagnosis of anxiety, let the child and parent know that in most cases, anxiety is adaptive and comes and goes; however, can be problematic when it stops the child doing things they want to do, interferes in their friendships, school or family life or causes significant distress. Basic education about the role of avoidance in reinforcing the anxiety cycle might also be helpful. Promoting healthy lifestyle behaviours, such as good sleep, regular exercise and healthy eating, is also important. Reliable, plain language resources for patients on anxiety and healthy development are listed in Box 2.

Conclusion

Anxiety is a normal developmental response throughout childhood and adolescence; however, recognising the threshold at which it interferes with daily life is challenging. Fortunately, there are reliable ways to assess for and manage anxiety disorders. Duration, level of distress and extent of impairment induced by anxiety are key transdiagnostic markers that can help identify anxiety disorders, and diagnosis is typically made via a clinical history and differential diagnoses against standard criteria. CBT, with a focus on exposure, is an effective first-line treatment option. Patient follow up and education, including the role of accommodating avoidance or modelling in reinforcing anxiety behaviours, are mainstays of long-term management.

References

A list of references is included in the online version of this article (www.medicinetoday.com.au).

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References

1. Beesdo-Baum K, Knappe S. Developmental epidemiology of anxiety disorders. Child Adolesc Psychiatr Clin N Am 2012; 21: 457-478.

2. Lawrence D, Hafekost J, Johnson SE, et al. Key findings from the second Australian Child and Adolescent Survey of Mental Health and Wellbeing. Aust N Z J Psychiatry 2016; 50: 876-886.

 Sadler K, Vizard T, Ford T, et al. Mental health of children and young people in England, 2017. Mental Health of Children and Young People Surveys; NHS, 2019.
 Merikangas KR, Nakamura EF, Kessler RC. Epidemiology of mental

disorders in children and adolescents. Dialogues Clin Neurosci 2009; 11: 7-20. 5. Costello EJ, Egger HL, Angold A. The developmental epidemiology of anxiety disorders: phenomenology, prevalence, and comorbidity. Child Adolesc Psychiatr Clin N Am 2005; 14: 631-648.

6. Essau CA, Conradt J, Petermann F. Frequency, comorbidity, and psychosocial impairment of anxiety disorders in German adolescents. J Anxiety Disord 2000; 14: 263-279.

7. Hill RM, Castellanos D, Pettit JW. Suicide-related behaviors and anxiety in children and adolescents: a review. Clin Psychol Rev 2011; 31: 1133-1144.

8. Batterham PJ, Christensen H, Calear AL. Anxiety symptoms as precursors of major depression and suicidal ideation. Depress Anxiety 2013; 30: 908-916.

 Spence SH, Zubrick SR, Lawrence D. A profile of social, separation and generalized anxiety disorders in an Australian nationally representative sample of children and adolescents: prevalence, comorbidity and correlates. Aust N Z J Psychiatry 2018; 52: 446-460.

10. Beesdo-Baum K, Knappe S, Fehm L, et al. The natural course of social anxiety disorder among adolescents and young adults. Acta Psychiatr Scand 2012; 126: 411-425.

 American Psychiatric Association. Diagnostic and statistical manual of mental disorders, 5th edition (DSM-5). Washington, DC: APA; 2013.
 Craske MG, Stein MB. Anxiety. Lancet 2016; 388: 3048-3059.

 Ebesutani C, Reise SP, Chorpita BF, et al. The Revised Child Anxiety and Depression Scale-Short Version: scale reduction via exploratory bifactor modeling of the broad anxiety factor. Psychol Assess 2012; 24: 833-845.
 Ebesutani C, Korathu-Larson P, Nakamura BJ, Higa-McMillan C, Chorpita B. The Revised Child Anxiety and Depression Scale 25-Parent Version: scale development and validation in a school-based and clinical sample. Assessment 2017; 24: 712-728.

 Lyneham HJ, Sburlati ES, Abbott MJ, et al. Psychometric properties of the Child Anxiety Life Interference Scale (CALIS). J Anxiety Disord 2013; 27: 711-719.
 van Steensel FJA, Bögels SM, Perrin S. Anxiety disorders in children and adolescents with autistic spectrum disorders: a meta-analysis. Clin Child Fam Psychol Rev 2011; 14: 302-317.

17. Rapee RM, Schniering CA, Hudson JL. Anxiety disorders during childhood and adolescence: origins and treatment. Annu Rev Clin Psychol 2009; 5: 311-341. 18. Lawrence PJ, Murayama K, Creswell C. Systematic review and metaanalysis: anxiety and depressive disorders in offspring of parents with anxiety disorders. J Am Acad Child Adolesc Psychiatry 2019; 58: 46-60.

19. Andrews G, Bell C, Boyce P, et al. Royal Australian and New Zealand College of Psychiatrists clinical practice guidelines for the treatment of panic disorder, social anxiety disorder and generalised anxiety disorder. Aust N Z J Psychiatry

2018; 52: 1109-1172.

20. James AC, James G, Cowdrey FA, Soler A, Choke A. Cognitive behavioural therapy for anxiety disorders in children and adolescents. Cochrane Database Syst Rev 2013; (6): CD004690.

21. James AC, Reardon T, Soler A, James G, Creswell C. Cognitive behavioural therapy for anxiety disorders in children and adolescents. Cochrane Database Syst Rev 2020; (11): CD013162.

22. Silverman WK, Albano AM. The anxiety disorders interview schedule for children and parents - DSM-IV version. New York: Graywin; 1996.

23. Kovacs M. Affective disorders in children and adolescents. Am Psychol 1989; 44: 209-215.

24. Peris TS, Compton SN, Kendall PC, et al. Trajectories of change in youth anxiety during cognitive-behavior therapy. J Consult Clin Psychol 2015; 83: 239-252.

25. Voort JL, Svecova J, Jacobsen AB, Whiteside SP. A retrospective examination of the similarity between clinical practice and manualized treatment for childhood anxiety disorders. Cogn Behav Pract 2010; 17: 322-328.

26. Whiteside SP, Ale CM, Young B, Dammann JE, Tiede MS, Biggs BK. The feasibility of improving CBT for childhood anxiety disorders through a dismantling study. Behav Res Ther 2015; 73: 83-89.

27. Odgers K, Dargue N, Creswell C, Jones MP, Hudson JL. The limited effect of mindfulness-based interventions on anxiety in children and adolescents: a meta-analysis. Clin Child Fam Psychol Rev 2020; 23: 407-426.

28. Rapee RM. The preventative effects of a brief, early intervention for preschool-aged children at risk for internalising: follow-up into middle adolescence. J Child Psychol Psychiatry 2013; 54: 780-788.

29. Pennant ME, Loucas CE, Whittington C, et al. Computerised therapies for anxiety and depression in children and young people: a systematic review and meta-analysis. Behav Res The 2015; 67: 1-18.

30. Morgan AJ, Rapee RM, Salim A, et al. Internet-delivered parenting program for prevention and early intervention of anxiety problems in young children: randomized controlled trial. J Am Acad Child Adolesc Psychiatry 2017; 56: 417-425.e1.

31. Danchin M, Gulenc A, Efron D, Sciberras E, Symeonides C, Hiscock H. Trends in prevalence and management of childhood anxiety by Australian pediatricians. Acad Pediatr 2019; 19: 35-43.

32. Gandhi E, OG'radey-Lee M, Jones A, Hudson JL. Receipt of evidence-based care for children and adolescents with anxiety in Australia. [Unpublished; under review 2021].

33. Wang Z, Whiteside SP, Sim L, et al. Comparative effectiveness and safety of cognitive behavioral therapy and pharmacotherapy for childhood anxiety disorders: a systematic review and meta-analysis. JAMA Pediatrics 2017; 171: 1049-1056.

34. Ipser JC, Stein DJ, Hawkridge S, Hoppe L. Pharmacotherapy for anxiety disorders in children and adolescents. Cochrane Database Syst Rev 2009; (3): CD005170.

35. Zhou C, Fang L, Chen Y, Zhong J, Wang H, Xie P. Effect of selective serotonin reuptake inhibitors on bone mineral density: a systematic review and meta-analysis. Osteoporos Int 2018; 29: 1243-1251.