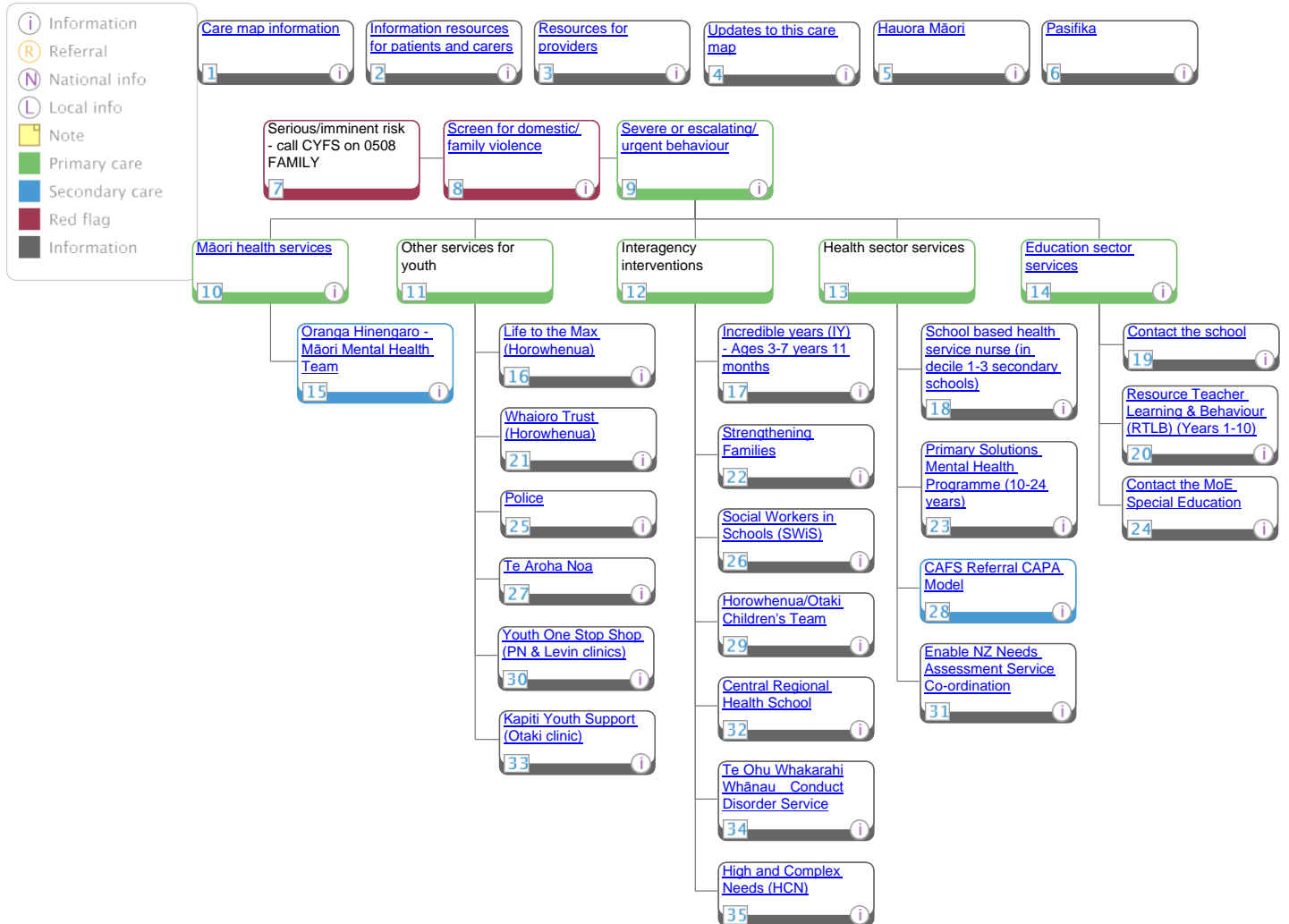


Behaviour Issues – Severe or Escalating Behaviour in Children

Paediatrics > Child development > Behaviour Issues in Children



1. Care map information

This map covers children aged 5-18 years.

The aim of this map is to offer effective early intervention strategies for children with severe behaviour issues.

Out of Scope:

- children already diagnosed with autism spectrum disorder (ASD)

NB: All the service providers cater for slightly different age ranges - these will be highlighted throughout the map.

References:

See Provenance Certificate for full list of references.

2. Information resources for patients and carers

Support services:

- Support or advocacy through [parent 2 parent](#)
- Special education - [Ministry of Education](#)
- [Women's Refuge](#)
 - Women's Refuge provides the support and information you need when you are dealing with violence in your life
 - freephone: 0800 REFUGE (0800 733 843)
- [The National Network of Stopping Violence Services](#)
 - works to enable all people in Aotearoa/New Zealand to live free of all forms of violence, abuse and oppression

Te Ara Whānau Ora Brochure

- [Te Ara Whānau Ora Brochure](#)

3. Resources for providers

Assessment/screening tools:

- [Denver Developmental Screening Tool Version II](#)
- MidCentral Health Behavioural Assessment:
 - [Home Questionnaire](#)
 - [School Questionnaire](#)
- Strengths and Difficulties Questionnaire (SDQ) (Robert Goodman, 2005):
 - [2-4 year olds](#)
 - [4-17 year olds](#)
 - [SDQ scoring website](#)
- NICHQ Vanderbilt Assessment Scales (used for diagnosing ADHD):
 - [questionnaire for parent informant](#)
 - [questionnaire for teacher informant](#)
 - [follow-up questionnaire for parent informant](#)
 - [follow-up questionnaire for teacher informant](#)
 - [scoring instructions](#)
- Adult ADHD Self-Report Scale (ASRS-v1.1):

- [Symptom Checklist Instructions and Checklist](#) (the checklist takes about 5 minutes to complete)
- [MCHAT Questionnaire](#)

Support Services:

- [Manawatu Abuse Intervention Network](#)
 - prevention of family violence through information, referral and intervention services
 - phone: (06) 351 3633
 - fax: (06) 351 3616
 - email: main.nz@gmail.com
 - availability: 9.00am to 4.00pm Monday to Friday
- [HALT \(Horowhenua Abuse Liaison Team\)](#)
 - a network of agencies working together to reduce family violence in the Horowhenua
 - does not provide direct intervention services itself
 - operates as a referral and monitoring service as well as a point of collaboration
 - referrals received by HALT come mostly through police reports of family violence. People or agencies can also refer people into the system
 - phone: (06) 366 0540
 - email: Coordinator@halt.org.nz
- MidCentral DHB Emergency Mental Health Team:
 - 0800 653 358
- [Child, Youth & Family](#)
 - Child, Youth and Family is a service of the Ministry of Social Development, and is part of a network of agencies aiming to build an environment where child abuse is not tolerated
- [Women's Refuge](#)
 - freephone: 0800 REFUGE (0800 733 643)
- [Voyage](#)
 - a nine week programme for children aged 5 - 11 years who have suffered abuse
 - suspected Child Abuse and Neglect: Recommended referral process for General Practitioners
 - for more information contact the VOYAGE Co-ordinator, Ruth Steven, on 06 356 5868 or 027-462-1987 (voicemail)

4. Updates to this care map

Date of re-publication: February 2016

This care map has been updated in line with consideration to evidenced based guidelines. Below summarises changes made to the pathway following review:

- service information updated
- inclusion of new/other services where relevant e.g. Horowhenua/Otaki Children's Team, Massey University Psychology services
- added guidance on screening for domestic/family violence
- added the following resources to improve usefulness and relevance of pathway:
 - assessment and screening tools to assist with initial diagnosis e.g. home and school questionnaires, strengths and difficulties questionnaires, ADHD screening tool for primary care
 - links to referral forms and information
 - inclusion of a new node 'resources for providers' to provide a one-stop-shop for all resources

For further information on contributors and references please see the care map's Provenance.

NB: This information appears on each page of this care map.

5. Hauora Māori

Māori are a diverse people and whilst there is no single Māori identity, it is vital practitioners offer culturally appropriate care when working with Māori Whānau. It is important for practitioners to have a baseline understanding of the issues surrounding Māori health.

This knowledge can be actualised by (not in any order of priority):

- acknowledging [Te Whare Tapa Wha \(Māori model of health\)](#) when working with Māori Whānau
- asking Māori clients if they would like their Whānau or significant others to be involved in assessment and treatment
- asking Māori clients about any particular cultural beliefs they or their Whānau have that might impact on assessment and treatment of the particular health issue ([Cultural issues](#))
- consider the importance of [whānaungatanga \(making meaningful connections\) with their Māori client / Whānau](#)
- knowledge of [Whānau Ora, Te Ara Whānau Ora and referring to Whānau Ora Navigators where appropriate](#)
- having a historical overview of legislation that has impacted on Māori well-being

For further information:

- [Hauora Māori](#)
- [Central PHO Māori Health website](#)

6. Pasifika

[Pacific Cultural Guidelines \(Central PHO\) 6MB file](#)

Our Pasifika community:

- is a diverse and dynamic population:
 - more than 22 nations represented in New Zealand
 - each with their own unique culture, language, history, and health status
 - share many similarities which we have shared with you here in order to help you work with Pasifika patients more effectively

The main Pacific nations in New Zealand are:

- Samoa, Cook Islands, Fiji, Tonga, Niue, Tokelau and Tuvalu

Acknowledging [The FonoFale Model \(pasifika model of health\)](#) when working with Pasifika peoples and families.

Acknowledging general pacific guidelines when working with Pasifika peoples and families:

- [Cultural protocols and greetings](#)
- [Building relationships with your pasifika patients](#)
- [Involving family support, involving religion, during assessments and in the hospital](#)
- [Home visits](#)
- [Contact information](#)

Pasifika Health Service - Better Health for Pasifika Communities:

- the Pasifika Health Service is a service provided free of charge for:
 - all Pasifika people living in Manawatu, Horowhenua, Taranaki and Otaki who have long term conditions
 - all Pasifika mothers and children aged 0-5 years
- an appointment can be made by the patient, doctor or nurse
- the Pasifika Health Service contact details are:
 - Palmerston North Office - 06 354 9107
 - Horowhenua Office - 06 367 6433

- [Better Health for Pasifika Communities brochure](#)

Additional resources:

- Ala Mo'ui - [Pathways to Pacific Health and Wellbeing 2014-2018](#)
- Primary care for pacific people: [a pacific health systems approach](#)
- Tupu Ola Moui: [The Pacific Health Chart Book 2004](#)
- Pacific Health [resources](#)
- [List of local Māori/Pacific Health Providers](#)
- [Central PHO Pacific Health website](#)

8. Screen for domestic/family violence

Screen for domestic/family violence:

- be alert to the symptoms or signs of domestic violence
- give women the opportunity to disclose domestic violence in a secure environment

Screening Questions could include:

- has anyone in your family kicked, punched, scratched or physically hurt you in the past year?
- does anyone in your family put you down, make you feel small, make you feel like you are walking on egg shells?
- has anyone made you do something sexual that you didn't want to do?
- have you any concerns regarding a previous spouse?

Resources:

- [Child and Partner Abuse \(Nov 2002\) - Family Violence Intervention Guidelines](#) (Ministry of Health)
- [Child Abuse and Neglect brief intervention](#)
- [Partner abuse framing questions](#)
- [Partner abuse risk assessment](#)
- [Te Manawa Services](#) (family violence - men and women)
- [Men Against Violence](#)

9. Severe or escalating/urgent behaviour

Worsening behaviour impacting on function:

- increasing anxiety
- initial behaviour interventions have not been effective

Conduct Disorder:

- a long lasting pattern of disruptive and violent behaviour

Symptoms include:

- aggressive behaviour e.g. cruelty to people or animals
- destructive behaviour e.g. intentional destruction of property
- deceitful behaviour e.g. repeated lying, theft
- persistent violation of rules e.g. truancy, running away [3]

10. Māori health services

[The Central PHO website lists the Iwi/Māori Health Services and their contact details.](#)

Click here for a list of [Mental Health and Māori Iwi Providers](#)

14. Education sector services

Education can offer the families:

- Severe Behaviour Service (ages 5-15 years) (MoE)
- Individual wrap around service (students Years 3-10) also Gateway to Residential Schools
- Severe Conduct and Behavioural Problems Service (3-8 years) (Joint MoH, MoE, MSD)
- High and Complex Needs (HCN) - see "Interagency interventions" box

15. Oranga Hinengaro – Māori Mental Health Team

Oranga Hinengaro provides assessment, treatment and care to Māori consumers/tangata whaiora of all ages and their whānau. The services is made up of trained medical professionals, including Kaumatua, consultant psychiatrist, community psychiatric nurses, social workers and clinical psychologists.

There is a Child, Adolescent and Family Mental Health & Coexisting Disorder Service (CAFS) team working with Tamariki and Taiohi (Children and Adolescent) 0-19 years.

Services provided:

- cultural interventions inclusive of Māori Frameworks and Koro Shed activities
- clinical assessment, treatment, planning, monitoring of mental state appropriate to child & youth and adult ages
- liaison with other mental health services, primary, NGO and Māori services
- referral to services, including CBT, DBT and child & youth services

Contact details:

- Whare Totara Community Village, Palmerston North Hospital:
 - phone 0800 007 878
- Mental Health Emergency Line:
 - 0800 653 357
- Email: oranga.hinengaro@midcentraldhb.govt.nz
- Website: [Oranga Hinengaro](#)

Referral form:

- [CAFS/Oranga Hinengaro referral form](#)

There is a clinic based at Horowhenua Mental Health Team once a week.

16. Life to the Max (Horowhenua)

A free wrap-around service for young people aged 10 - 19 years and their families. On offer are innovative programmes and services to reduce the harm and risk associated with young people's alcohol and drug use, offending and other at risk behaviours.

Services:

- after school / holiday programs

- cultural development
- employment / careers
- information / advice
- justice related
- mental health
- mentoring / life skills
- personal development
- referral service
- youth advocacy

Contact information:

- 12a Exeter Street, Levin 5510
- phone: 06 368 8005
- 8.00am–5.00pm Monday to Friday
- email: admin@ltnm.org.nz
- website: [Life to the Max](#)

Referral process:

- information required is basic personal and contact information, including what the young person's needs are

17. Incredible years (IY) – Ages 3-7 years 11 months

Incredible Years is a 14-18 session programme for parents.

Parents come together each week and develop approaches to use at home with problem behaviours such as aggressiveness, ongoing tantrums and acting out behaviour such as swearing, whining, yelling, hitting and kicking, answering back and refusing to follow rules.

Referral forms and information sheet for parents:

- [The Incredible Years Referral Form - Horowhenua area](#)
- [The Incredible Years Referral Form - Manawatu and Taranaki area](#)
- [The Incredible Years Information Sheet for Parents](#)

Contact information:

- co-ordinator: Di Thomas
- email: di.thomas@minedu.govt.nz
- phone: 350 9859

[More information is available through the Werry Centre for Infant, Child and Adolescent Mental Health](#)

18. School based health service nurse (in decile 1-3 secondary schools)

The school based health service nurse is available in the following schools:

- Horowhenua College
- Waiopahu College
- Manawatu College
- QEC
- Otaki College

The service is also provided to alternative education and teen parent unit.

19. Contact the school

Recommend to the parent to discuss any issues with the school.

Professional to consider contacting school to discuss concerns (parental consent may be required).

20. Resource Teacher Learning & Behaviour (RTLB) (Years 1-10)

Resource Teacher Learning & Behaviour (RTLB) are specialist itinerant kaiako/teachers who provide learning and behaviour support to a cluster of kura/schools.

RTLB support and up-skill teachers to better meet the needs of students within an inclusive education system.

Only schools are able to refer students to the RTLB service. If a whānau/family or health professional thinks the child may benefit from RTLB assessment, they can talk to the classroom teacher to discuss a referral.

[More information is available on the web](#)

The RTLB can refer to the Severe Behaviour Service.

21. Whaioro Trust (Horowhenua)

Whaioro Trust is a Māori mental health provider offering services to youth between the ages of 10-17 years with alcohol and drug issues in the Horowhenua District. This service is offered from the Trust's Levin office.

For further information:

- [Brochure about services](#)
- [Referral/registration form](#)

Contact details:

- Levin office:
 - Jack Allen House, 21 Durhan St, Levin
 - phone: 06 354 0670
 - fax: 06 355 7201
 - 8:00am–5.00pm Monday to Friday
- Trust office:
 - 602-606 Main Street, Palmerston North
 - phone: 06 354 0670

22. Strengthening Families

[Strengthening Families](#) is an established process where multiple organisations come together with a family/whānau to plan and organise services.

Strengthening Families can be used by any family/whānau who needs help from more than one agency.

The process is free and 100% voluntary.

To link a family with Strengthening Families, you can:

- encourage a family/whānau member to ask an agency they're working with to refer them
- suggest they get in touch with a local Strengthening Families coordinator ([list of local co-ordinators](#))

23. Primary Solutions Mental Health Programme (10-24 years)

Primary Solutions Mental Health Programme (10-24 years)

This is a free service **for young people aged 10 to 24 years** which aims to improve access to health and social services for those with mild to moderate mental health illness or distress.

The service provides:

- assistance to the patient/whānau to identify any issues that may impact on their wellbeing
- information about services currently provided within their local area
- support to access services relevant to the patient's/whānau's need
- assistance to plan an individualised flexible package of care to meet the patient's identified need

Criteria apply for those over the age of 24.

For further information:

- [CPHO referral form \(referral can be by GP, community support agency or self referral\)](#)
- [information brochure for patients and carers](#)
- contact details:
 - Health on Main, 575 Main Street, Palmerston North
 - phone: 06 354 9107
 - [Central PHO Mental Health website](#)

24. Contact the MoE Special Education

Run by [Ministry of Education Special Education](#)

- phone (06) 350 9850 (office)
- 0800 100 359 (Central District/Palmerston North)
- 0800 100 372 (Horowhenua/Kapiti)

25. Police

Youth Services can be involved with offending and other escalating behaviour:

- assist with truancy

To contact Youth Aid, contact your nearest [Police Station](#).

15 Social Workers in Schools (SWiS)

26. Social Workers in Schools (SWiS)

Social Workers in Schools (SWiS) is a school-based community social work service, working in low decile schools (decile 1-4).

The SWiS service is aimed at:

- children who have poor attendance or engagement in school

- children with social or behavioural problems
- children experiencing grief or loss
- families who may be struggling financially, or with issues such as overcrowding, gambling etc.
- at-risk families, including those who have been referred by Child, Youth and Family for community based support.

Referrals can be made by the children or family themselves, the school, or community or Government agencies:

- referrals need the consent and engagement of the family
- [SWiS referral form](#)
- scan and email referral form to alanas@raukawa.iwi.nz or mail to PO Box 586, Levin, Attention: Alana

The service is available in the following schools:

- Levin:
 - Taitoko
 - Levin School
 - East School
 - St Joseph School
 - Levin Intermediate
 - Levin North
- Foxton-Shannon:
 - Porotawhao
 - St Marys
 - Coley Street
 - Foxton Primary
 - Foxton Beach School
 - Rongotea
 - Shannon School
- Palmerston North:
 - Takāro Kura
 - Somerset
 - Awapuni
 - Monrad Intermediate
 - Terrace End School
 - Roslyn St School
- Feilding:
 - Lytton Street School

27. Te Aroha Noa

[Te Aroha Noa Community Services](#) is an innovative family/whānau and community development organisation with an underpinning Christian kaupapa which is based in the lower socio economic and multi-cultural suburb of Highbury, Palmerston North.

28. CAFS Referral CAPA Model

Child, Adolescent and Family Mental Health & Coexisting Disorder Service (CAF)

Criteria for referral:

- significant caregiver/parent concern about child's behaviour

- behaviour concerns from other agencies involved with child

Child/family seen to assess risk and appropriateness for CAFS Service. If child/family do not meet criteria, other services will be recommended.

Palmerston North:

- Konini House - Community Village, PN Hospital, Ruahine Street, Palmerston North, 4414
- phone: (06) 350 8373
- fax: (06) 350 8374

Horowhenua:

- Horowhenua Health Centre, 62 Liverpool Street, Levin, 5510
- phone: (06) 366 0031
- fax: (06) 366 0064

[CAFS referral form](#)

[Website](#)

The Choice & Partnership Approach (CAPA)

This project introduces ways of working that increase the efficiency and quality of CAFS and AOD services by implementing systems to utilise resources effectively.

This includes making sure that children, young people and their family/whānau are met in a timely fashion, listened to and respected, offered all options available, given opportunity to voice their views and are supported with their decisions.

Te Ohu Whakarahi whānau is the Severe Conduct and Behavioural Problems Service (3 - 8 years) for children aged 3 - 8 years:

- [Criteria for referral](#)
- [Te Ohu Whakarahi Whānau Brochure](#)
- [Please complete the attached form to refer to the CAF Service](#)
- [MidCentral DHB website for more information](#)

29. Horowhenua/Otaki Children's Team

Children's Teams bring together professionals from health, education, welfare and social service agencies to work with vulnerable children and their families. Vulnerable children in the Horowhenua, where there are complex issues for the family with multiple agencies involved, can be referred to the Children's Team, with the consent of the family.

Horowhenua/Otaki Children's Team:

- covers the Horowhenua district including Levin and Otaki
- go to the [Horowhenua/Otaki Children's Team website](#) for the following information:
 - referral form
 - consent form
- local referral process:
 - drop the completed referral form to the office in Levin or send an email and the Team Administrator will collect it
 - **do not email the referral form with a child's personal information**
- contact details for the Horowhenua/Otaki Children's Team:
 - Jacqui Moynihan, Director (Jacqueline.Moynihan@childrensactionplan.govt.nz)
 - enquiries: Horowhenua.Otaki@childrensactionplan.govt.nz
 - physical address: 14 Durham Street, Levin

- postal address: PO Box 256, Levin 5510
- phone: 06 949 8790
- mobile: 029 201 5779

30. Youth One Stop Shop (PN & Levin clinics)

Free counselling, health services, alcohol and drug support, advice, family work for young people aged 10-24 years of age who live in MidCentral district.

Also run life skills programmes for 10-16 year olds.

Hours:

• **Palmerston North:**

- 9am - 6pm Monday - Thursday
- 9am - 5pm Friday

• **Levin:**

- 10am - 5pm Monday to Wednesday

Contact details:

• **Palmerston North:**

- phone: 06 355 5906
- 31 Princess Street, Palmerston North
- email: info@yoss.org.nz
- [YOSS website](#) (for referral information and form)

• **Levin:**

- phone: 06 368 0863
- 152 Bath Street, Levin
- email: info@yoss.org.nz
- [YOSS website](#) (for referral information and form)

31. Enable NZ Needs Assessment Service Co-ordination

For parents not coping with the child's behaviour:

- consider referral to Enable NZ Needs Assessment Service Coordination (NASC):
 - [needs assessment referral form](#)
 - [information sheet](#)

Disability access criteria will apply - refer to information sheet

Contact details:

- call free: 0800 362 253 or 06 353 5899
- fax: 06 353 5874
- email: nasc@enable.co.nz
- PO Box 4547, Palmerston North 4442

32. Central Regional Health School

The [Central Regional Health School \(CRHS\)](#) provides education for students with high health needs.

The aim of the CRHS is to maintain the education of students (year 0 to year 13) when their physical or mental health needs mean they are unable to attend their regular school. CRHS also provides the education programme for students at Te Au rere a te Tonga in Palmerston North (formerly the Lower North Youth Justice Residence):

- email: admin@crhs.school.nz
- tollfree phone: 0800 153 000
- fax: (04) 475 8568

33. Kapiti Youth Support (Otaki clinic)

[Kapiti Youth Support \(KYS\)](#) is a Youth One Stop Shop providing free services to meet the health and wellbeing needs of Kapiti youth aged 10-24 years.

KYS Otaki clinic:

- Tuesday clinics and other services on other days by appointment
- 14 Matene Street, Otaki
- Phone: (06) 364-7305

34. Te Ohu Whakarahi Whānau Conduct Disorder Service

Only Child, Adolescent and Family Mental Health & Coexisting Disorder Service (CAFS), Children Young Persons and Family Service (CYFS) and Ministry of Education (MoE-Special Education) can refer children aged 3-8 years to the Severe Conduct and Behavioural Problems Service (3-8 years).

Referral criteria:

- the referred child must be a client of at least one of the primary agencies (CAFS, MoE-Special Education, CYFS)
- the client is from 3-8 years of age
- referral discussed with family
- Incredible Years Parenting Programme has been offered to the family
- there are current family risk factors for the child, sufficient to warrant intervention

Further information about the Severe Conduct and Behavioural Problems Service (Te Ohu Whakarahi Whānau):

- [brochure on service](#)

35. High and Complex Needs (HCN)

The [High and Complex Needs \(HCN\) Unit](#) is an interagency unit that supports staff and managers across health, disability, education and Child, Youth and Family to identify, plan and better meet children's needs when they are high and complex.

The service provides tools, resources and information to support interagency working and, where necessary, funding for the purchase of additional services.

Behaviour Issues in Children

Provenance Certificate

[Overview](#) | [Editorial methodology](#) | [References](#) | [Contributors](#) | [Disclaimers](#)

Overview

This document describes the provenance of MidCentral District Health Board's **Behaviour Issues in Children** pathway. This pathway is regularly updated to include new, quality-assessed evidence, and practice-based knowledge from expert clinicians. Please see the Editorial Methodology section of this document for further information.

This localised pathway was last updated in February 2016.

For information on changes in the last update, see the information point entitled 'Updates to this care map' on each page of the pathway.

One feature of the "Better, Sooner, More Convenient" (BSMC) Business Case, accepted by the Ministry of Health in 2010, was the development of 33 collaborative clinical pathways (CCP).

The purpose of implementing the CCP Programme in our DHB is to:

- Help meet the Better Sooner More Convenient Business Case aspirational targets, particularly the following:
 - Reduce presentations to the Emergency Department (ED) by 30%
 - Reduce avoidable hospital admissions to Medical Wards and Assessment Treatment and Rehabilitation for over-65-year-olds by 20%
 - Reduce poly-pharmacy in the over-65-year-olds by 10%
- Implement a tool to assist in planning and development of health services across the district, using evidence-based clinical pathways.
- Provide front line clinicians and other key stakeholders with a rapidly accessible check of best practice;
- Enhance partnership processes between primary and secondary health care services across the DHB.

To cite this pathway, use the following format:

Map of Medicine. Medicine. MidCentral District View. Palmerston North: Map of Medicine; 2014 (Issue 1).

Editorial methodology

This care map was based on high-quality information and known Best Practice guidelines from New Zealand and around the world including Map of medicine editorial methodology. It has been checked by individuals with front-line clinical experience (see Contributors section of this document).

Map of Medicine pathways are constantly updated in response to new evidence. Continuous evidence searching means that pathways can be updated rapidly in response to any change in the information landscape. Indexed and grey literature is monitored for new evidence, and feedback is collected from users year-round. The information is triaged so that important changes to the information landscape are incorporated into the pathways through the quarterly publication cycle.

References

This care map has been developed according to the Map of Medicine editorial methodology. The content of this care map is based on high-quality guidelines and practice-based knowledge provided by contributors with front-line clinical experience. This localised version of the evidence-based, practice-informed care map has been peer-reviewed by stakeholder groups and the CCP Programme Clinical Lead.

1	Contributors representing the Child Health Behaviour Issues Collaborative Clinical Pathway Working Group – MidCentral DHB (2012)
3	Mental Health and Conduct Disorder Available at: http://www.webmd.com/mental-health/mental-health-conduct-disorder
4	Ministries of Health and Education. (2008). New Zealand Autism Spectrum Disorder Guideline. Wellington: Ministry of Health
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6	Ministries of Health and Education. (2013) Autism Spectrum Disorder (ASD) Quick Card for Referral. Wellington: Ministry of Health Available at: http://www.health.govt.nz/publication/does-person-have-asd-quickcard

Contributors

MidCentral DHB's Collaborative Clinical Pathway editors and facilitators worked with clinical stakeholders such as front-line clinicians and pharmacists to gather practice-based knowledge for its care maps.

The following individuals contributed to the update of this care map:

- Dr Megan Pybus, Paediatrician, Child Health, MidCentral DHB (Secondary Care Clinical Lead)
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- Gabrielle Scott, Child Health Development Team, MidCentral DHB
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- Jacqui Moynihan, Police
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Editor)

- Dr Naomi Dunwoodie, General Practitioner (Primary Care Clinical Lead)

Disclaimers

Clinical Board Central PHO, MidCentral DHB

It is not the function of the Clinical Board Central PHO, MidCentral DHB to substitute for the role of the clinician, but to support the clinician in enabling access to know-how and knowledge. Users of the Map of Medicine are therefore urged to use their own professional judgement to ensure that the patient receives the best possible care. Whilst reasonable efforts have been made to ensure the accuracy of the information on this online clinical knowledge resource, we cannot guarantee its correctness and completeness. The information on the Map of Medicine is subject to change and we cannot guarantee that it is up-to-date.