



Optimal cancer care pathway for people with pancreatic cancer

December 2024 | Edition One, version 2 (12/9/25)

Citation: Te Aho o Te Kahu. 2024. *Optimal cancer care pathway for people with pancreatic cancer*. Wellington: Te Aho o Te Kahu.

Published in 2024 by Te Aho o Te Kahu | Cancer Control Agency, PO Box 5013, Wellington 6140, New Zealand

ISSN 3021-3142
TP0034



This document is available at **teaho.govt.nz**



This work is licensed under the Creative Commons Attribution 4.0 International licence. In essence, you are free to: share i.e., copy, and redistribute the material in any medium or format; adapt i.e., remix, transform and build upon the material. You must give appropriate credit, provide a link to the licence, and indicate if changes were made.

Whakataukī

Have a sense of the message in the winds
Anei he taonga nō te mātanga nō Ahitereiria
Koutou maa I takoto te koha ki a mātou

Here is a treasure from the skilled and able specialist in Australia
Greetings for this treasure you have gifted us here in Aotearoa to explore and use

E ki ana te tangi o tatou manu
Ko te manu e kai ana ki te miro, nōnā te ngahere
Ko te manu e kai ana ki te mātauranga nōnā te Ao

It has been reiterated that when our manu cries, we sit up and listen
The bird that feeds upon local berries, local knowledge will prosper
The bird that feeds upon wisdom, our world knowledge will flourish.

It is an exciting time to feed off the wisdom of other cultures

Matua Tau Huirama

We would like to acknowledge The Voices of Whānau Māori Affected by Cancer (2023); He Ara Tangata – Te Aho o Te Kahu Consumer Group; the project team; clinicians; and national and special interest working groups that contributed to the development of the Optimal Cancer Care Pathways.

Special acknowledgement is extended to the Cancer Council Australia, who generously shared their Optimal Care Pathways framework and provided permission for it to be adapted to support people and whānau across Aotearoa New Zealand experiencing cancer.

Contents

FOREWORD	5
SUMMARY GUIDE OF PANCREATIC CANCER OCCP INFORMATION	6
PRINCIPLES OF THE OPTIMAL CANCER CARE PATHWAY	14
OPTIMAL TIMEFRAMES.....	15
OPTIMAL CANCER CARE PATHWAY	16
STEP 1: WELLNESS	17
STEP 2: EARLY DETECTION.....	19
STEP 3: PRESENTATION, INITIAL INVESTIGATIONS, AND REFERRAL.....	22
STEP 4: DIAGNOSIS, STAGING AND TREATMENT PLANNING	27
STEP 5: TREATMENT	33
STEP 6: CARE AFTER TREATMENT	39
STEP 7: PALLIATIVE AND END-OF-LIFE CARE	43

For further information including:

- Achieving Pae Ora, equity and whānau insights
- Person/whānau questions
- Definitions
- Pancreatic cancer references and bibliography

Refer to **Optimal Cancer Care Pathway (OCCP) supplementary information.**

Foreword



Kia ora,

On behalf of Te Aho o Te Kahu | Cancer Control Agency, the clinician community, and the people and whānau who contributed to developing this guidance, I am proud to present the pancreatic cancer Optimal Cancer Care Pathway (OCCP) for Aotearoa New Zealand.

Almost everyone across Aotearoa has been affected by cancer in some way. This year over 28,000 people will be diagnosed with cancer, with thousands more supporting loved ones living with this disease. Pancreatic cancer affects an increasing number of people with more than 670 diagnosed with pancreatic cancer this year. Around 640 will die from pancreatic cancer this year. We all believe that people and their whānau deserve the best cancer care available.

OCCPs are designed to guide the planning, coordination and delivery of best practice cancer prevention and care services across Aotearoa for different types of cancer. Each OCCP has been designed:

- with the needs of the person and their whānau at the heart
- to reflect the best capabilities available in Aotearoa
- to provide a national standard for high-quality cancer prevention and care that we expect for all New Zealanders.

While cancer control services are expanding and improving across the motu | country, there are often unwarranted variations in the risk of getting cancer and in the care experienced by people with cancer. Also, many continue to face barriers in accessing timely and effective cancer care because of where they live, their circumstances, or their ethnic background. Research shows that following best practice guidance like OCCPs, helps to reduce variations and disparities and improves cancer outcomes for people and their whānau. In turn, this will help our overall aim of reducing the burden of cancer on people and communities.

This resource reflects the expertise and experiences from many stakeholders across the country. Many thanks to everyone involved in this initiative, particularly Cancer Council Australia, who granted permission to adapt and adopt their Optimal Care Pathways framework to meet the needs of people in Aotearoa | New Zealand. We would also like to acknowledge the insights from The Voices of Whānau Māori Affected by Cancer (2023); He Ara Tangata – Te Aho o Te Kahu Consumer Group; the project team; clinicians; and national and special interest working groups.

Our thoughts are with the many people and whānau who are living with pancreatic cancer, and those who have lost loved ones. Much of this guidance reflects the voices of those who have received cancer care. We are indebted to them for sharing their experiences to help improve cancer control outcomes and achieve equity.

Ngā mihi nui,

A handwritten signature in dark ink, appearing to read 'Rami'.

Rami Rahal

Tumuaki | Chief Executive

Te Aho O Te Kahu | Cancer Control Agency

Summary guide of pancreatic cancer OCCP information

Quick reference guide of condensed tumour stream

The Optimal Cancer Care Pathways (OCCP) describe the standard of care that people and whānau across Aotearoa, New Zealand should expect the public health system to be striving for. They follow eight principles¹: person and whānau-centred care; equity-led; safe, high-quality care; multidisciplinary care; supportive care; coordinated care; effective and timely communication; and knowledge-driven care.

The OCCP guides health providers in ensuring the person and their whānau receive optimal, supportive care at each stage of their cancer diagnosis and treatment.

Step 1: Wellness	Step 1: Checklist
<p>Cancer prevention efforts should be part of all cancer control pathways. This step recommends actions the person/whānau can take to improve their wellbeing and reduce the overall risk of cancer.</p> <p>Evidence-based research shows that general cancer and wellbeing risks can be reduced by:</p> <ul style="list-style-type: none"> • eating a nutritious diet • maintaining a healthy weight • taking regular, moderate to vigorous intensity activity • avoiding or limiting alcohol intake • being sun smart • identifying pre-disposing infections such as, Hepatitis C • keeping up to date with immunisations or vaccines such as, Human Papilloma Virus (HPV) • smoking including marijuana and exposure to second-hand smoke <ul style="list-style-type: none"> ○ current smokers (or those who have recently quit) should be offered best practice tobacco dependence treatment and an opt-out referral to an intervention service such as Quitline • avoiding vaping • participating in screening services such as breast, cervical, bowel cancer screening • preventing occupational exposure to asbestos, silica, radon heavy metal, diesel exhaust and polycyclic aromatic hydrocarbons. 	<ul style="list-style-type: none"> <input type="checkbox"/> Carry out a health and wellbeing assessment including discussions around screening services and ways to reduce cancer risk. <input type="checkbox"/> Assess the individual's risk of developing cancer. <input type="checkbox"/> Encourage eligible people to participate in national screening programmes. <input type="checkbox"/> Discuss recent weight changes and monitor weight. <input type="checkbox"/> Discuss and record alcohol intake. Offer support for reducing alcohol consumption if appropriate. <input type="checkbox"/> Record person's smoking status and offer stop smoking advice/support if appropriate. <input type="checkbox"/> Record physical activity. <input type="checkbox"/> Consider referral to a dietitian, physiotherapist, or exercise programme. <input type="checkbox"/> Discuss oral hygiene. <input type="checkbox"/> Assess family history of cancer as part of a routine wellness check. <input type="checkbox"/> Give the person education on being sun smart.

¹ Optimum Cancer Care Pathway Principles

Step 2: Early detection	Step 2: Checklist
<p>This step recommends options for early detection for the person with suspected pancreatic cancer.</p> <p>There is no national screening programme for pancreatic cancer</p> <p>Early detection</p> <p>Pancreatic cancer modifiable risks:</p> <ul style="list-style-type: none"> • tobacco smoking • obesity • heavy alcohol consumption • type II diabetes • increased consumption of red meat and processed meat <p>Pancreatic cancer non-modifiable risks:</p> <ul style="list-style-type: none"> • stomach infections with the bacterium <i>Helicobacter pylori</i>, which causes stomach ulcers • cystic lesions of the pancreas • first degree relatives with pancreatic cancer • genetic syndromes (hereditary breast and ovarian cancer syndrome, familial melanoma, familial pancreatitis, Lynch syndrome, Peutz-Jeghers syndrome, Von Hippel-Lindau syndrome) • older age • chronic pancreatitis • male gender <p>Early detection may be achieved through targeted investigations for high-risk individuals.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Assess and discuss the individual's risk of developing cancer. <input type="checkbox"/> Support the person and their whānau to follow surveillance guidance if they're at an increased risk of familial cancer. <input type="checkbox"/> Provide targeted investigation recommendations. <input type="checkbox"/> Refer to clinical genetic services where appropriate. <input type="checkbox"/> Discuss recent weight changes and monitor weight. <input type="checkbox"/> If signs and symptoms of cancer are present refer to 'Step 3: Presentation, initial investigation and referral' below. <p>Communication</p> <p>Ensure the person and their whānau understands:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the targeted investigations <input type="checkbox"/> when they should receive their results <input type="checkbox"/> how to follow up if they don't receive their results <input type="checkbox"/> what's involved if they need to be transferred to a specialist service.

Step 3: Presentation, initial investigations, and referral	Step 3: Checklist
<p>This step outlines how to initiate the appropriate investigations and referrals to specialist/s in a timely manner for the person with suspected pancreatic cancer.</p> <p>The types of investigations undertaken will depend on many factors, including access to diagnostic tests, the availability of medical specialists and including preferences.</p> <p>A person and their whānau may present via primary care, an emergency presentation or incidental finding with a high suspicion of pancreatic cancer.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> All people with a high suspicion of cancer have a person to coordinate care. <input type="checkbox"/> Record signs and symptoms. <input type="checkbox"/> Complete all cancer assessments. <input type="checkbox"/> Inform the person and their whānau of preliminary results. <input type="checkbox"/> Referral options of cancer care are discussed with the person and their whānau, including cost implications if private provider requested.

<p>Signs and symptoms of pancreatic cancer to investigate include:</p> <ul style="list-style-type: none"> • abdominal pain, commonly radiating to your back, can be vague and poorly localised • acute pancreatitis where the cause is not alcohol ingestion and gallstones are not evident • new-onset diabetes • jaundice that is progressive, together with unexplained weight loss and abdominal pain that may radiate to the back (the jaundice may also be accompanied with dark urine, light-coloured stools, and itchy skin) • pain, which is often severe, unrelenting and of a short duration • unexplained weight loss • pale and greasy stools • nausea and vomiting • constipation • fatigue • enlargement of gall bladder • blood clot in the leg without a clear risk factor • incidental lesions found on radiology. <p>Pancreatic cancer assessment includes the relevant:</p> <ul style="list-style-type: none"> • medical history Duration of pancreatic-type epigastric pain, changes in bowel habits, steatorrhea, jaundice, unintentional weight loss, new-onset, or pre-existing • physical examination Eastern Cooperative Oncology Group (ECOG) Performance Status Scale, frailty assessment, weight, jaundice of skin, eye and tongue, abdominal assessment for palpable abdominal mass, epigastric tenderness radiating to the back, hepatosplenomegaly, or ascites. • investigations laboratory: full blood count, liver function tests, lipase, electrolytes and creatinine, C-reactive protein, coagulation studies, CA19-9, CEA, faecal elastase. radiology: CT preferably pancreatic protocol. • social history to identify any barriers to access healthcare, support network or cultural linguistic barriers. <p>Referral</p> <p>A clinical suspicion or laboratory/ imaging findings suggestive of cancer require further investigation and a referral to hospital specialist services.</p> <p>If the person presents with one of the following red flags, the referral should be triaged as a high suspicion of cancer:</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Complete and record supportive care needs assessment and refer to allied health services as required. <input type="checkbox"/> Inform the person and their whānau of cultural services and relevant support groups available. <input type="checkbox"/> Initiate referrals and arrange further investigation. <p>Timeframe</p> <ul style="list-style-type: none"> <input type="checkbox"/> If there is a high suspicion of pancreatic cancer, submit referral immediately to hospital specialist services. <input type="checkbox"/> High suspicion of cancer referral is triaged within 1-2 working days and referrer is notified. <input type="checkbox"/> Confirm that the person referred urgently with a high suspicion of cancer will attend their first specialist assessment (FSA) clinic within 2 weeks. <p>Communication</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain to person and their whānau that they are being referred to a hospital specialist service and why, including: <input type="checkbox"/> how long this may take <input type="checkbox"/> who to contact if their symptoms change <input type="checkbox"/> how to follow up if they do not receive their specialist appointment within the specified time.
---	--

<ul style="list-style-type: none"> • painless obstructive jaundice • unexplained weight loss with one or more of the following: <ul style="list-style-type: none"> ○ new-onset diabetes ○ new onset mid-back discomfort ○ steatorrhoea ○ nausea/vomiting. 	
--	--

Step 4: Diagnosis, staging and treatment planning	Step 4: Checklist
<p>This step outlines the process for confirming the diagnosis and stage of cancer and the planning of subsequent treatment.</p> <p>Diagnosis for pancreatic cancer may include:</p> <p>Radiology</p> <ul style="list-style-type: none"> • CT scan with pancreatic protocol (if not already performed) <p>If diagnostic uncertainty remains, the following investigations are recommended:</p> <ul style="list-style-type: none"> • contrast-enhanced MRI or magnetic resonance cholangiopancreatography (MRCP) • percutaneous biopsy with radiology guidance. <p>Interventional Endoscopy</p> <ul style="list-style-type: none"> • Endoscopic retrograde cholangiopancreatography (ERCP). • Endoscopic ultrasound with or without fine needle aspiration. <p>Staging</p> <ul style="list-style-type: none"> • CT scan of the chest, abdomen, and pelvis (if not already performed). • MRI liver to rule out or confirm liver metastases. • PET-CT if the person is a candidate for radical surgery on conventional imaging and discussed in MDM (see National PET-CT Indication List 2024). • Laparoscopy with or without laparoscopic ultrasound. • Endoscopic ultrasound. <p>Performance status Assess performance status using the Eastern Cooperative Oncology Group (ECOG) Performance Status Scale to inform prehabilitation and treatment recommendations.</p> <p>Multidisciplinary meeting Referral to upper GI /hepatopancreatobiliary MDM is undertaken to inform treatment</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Confirm diagnosis. <input type="checkbox"/> Referral to a cancer care coordinator. <input type="checkbox"/> Record staging, performance status and comorbidities. <input type="checkbox"/> Discuss the person's diagnosis at a multidisciplinary meeting (MDM) and inform the person and their whānau of the treatment decision. <input type="checkbox"/> Consider enrolment in clinical trial. <input type="checkbox"/> Consider fertility consequences with treatment and refer to fertility specialist as required. <input type="checkbox"/> Assess supportive care needs and refer to allied health services as required. <input type="checkbox"/> Ensure primary or secondary prehabilitation to optimise overall well-being is initiated. <input type="checkbox"/> Referral to pancreatic cancer specific support services as required. <input type="checkbox"/> Give the person and their whānau information on Cancer Society, and/or relevant cultural services and support groups available. <p>Timeframe If required, an MDM should occur within 2 weeks of the suspected or confirmed diagnosis.</p> <p>Communication The lead clinician and team are responsible for:</p> <ul style="list-style-type: none"> <input type="checkbox"/> discussing a timeframe for diagnosis and treatment options with person and their whānau <input type="checkbox"/> explaining the role of the MDM team in treatment planning and ongoing care <input type="checkbox"/> encouraging discussion about the diagnosis, prognosis, advance care planning and

<p>recommendation or further assessment and investigations.</p> <p>Familial cancer risk Referral to clinical genetic services for pancreatic cancer is considered if features of the cancer suggest a genetic predisposition, such as:</p> <ul style="list-style-type: none"> • early age onset • histology (if available) • multiple primary cancers. • family history of similar or related cancers. <p>Treatment planning Optimal cancer care requires a multidisciplinary approach to ensure treatment plans are tailored to an individual's needs in collaboration with the whānau and health care team.</p>	<p>palliative care while clarifying wishes, needs, beliefs, and expectations of the person and their whānau and their ability to comprehend the communication.</p> <ul style="list-style-type: none"> <input type="checkbox"/> providing appropriate information and referral to support services as required <input type="checkbox"/> communicating with the GP of the person and their whānau about the diagnosis, treatment plan and recommendations from the MDM.
---	---

Step 5: Treatment	Step 5: Checklist
<p>This step describes publicly funded optimal treatments for pancreatic cancer by trained and experienced clinicians and team members, in an appropriate environment.</p> <p>Establish the intent of treatment:</p> <ul style="list-style-type: none"> • curative • non-curative • symptom palliation • palliative care. <p>Treatment options:</p> <p>Surgery may be used to stage the cancer or as a form of curative intent treatment for resectable disease.</p> <p>Systemic therapy people who may benefit from systemic therapy includes:</p> <ul style="list-style-type: none"> • those for curative intent treatment in the form of neoadjuvant or adjuvant therapy • those with non-resectable disease. <p>Radiation therapy for people who are too unwell to undergo curative therapy, radiation therapy has been shown to improve pain control and manage symptoms.</p> <p>Other therapies people who may benefit from other surgical, endoscopic, or radiological therapies includes those who require:</p> <ul style="list-style-type: none"> • relief of obstruction • biliary decompression • symptom palliation. <p>Endoscopic stenting is recommended as initial palliation for biliary obstruction. Percutaneous</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Health providers/professional, treating specialist has relevant qualifications, experience, and expertise. <input type="checkbox"/> Discuss the intent of treatment and the risks and benefits discussed with the person and their whānau. <input type="checkbox"/> Provide the agreed treatment plan with the person, their whānau and GP. <input type="checkbox"/> Assess supportive care needs and refer to allied health services as required. <input type="checkbox"/> Give the person and their whānau information on the cancer non-governmental organisations (NGOs,) cultural services and support groups available. <input type="checkbox"/> Consider early referral to palliative care if appropriate. <input type="checkbox"/> Discuss advanced care planning with the person and their whānau. <p>Timeframes</p> <ul style="list-style-type: none"> <input type="checkbox"/> The person with a confirmed diagnosis of pancreatic cancer receives their first treatment within 31 days of the decision to treat. <input type="checkbox"/> The person referred urgently with a high suspicion of pancreatic cancer receives their first cancer treatment within 62 days. <input type="checkbox"/> Time to surgery, if required after neoadjuvant chemotherapy/chemoradiation therapy, depends on the regimen.

<p>transhepatic biliary stenting may be required for failed endoscopic stenting.</p> <p>For people with gastric outlet obstruction, either surgical bypass or endoscopic stenting would be appropriate.</p> <p>It is important to discuss the risks versus benefits of any palliative therapy.</p> <p>Palliative care – Early referral to palliative care can improve quality of life and in some cases survival. Referral is based on need, not prognosis.</p>	<p><input type="checkbox"/> The person who has had a radical resection for pancreatic cancer is presented in the GI/Hepato-pancreato-biliary cancer MDM within 3 weeks after surgery for consideration of adjuvant therapy.</p> <p>Communication</p> <p>The lead clinician and team are responsible for discussing these areas with the person and their whānau:</p> <p><input type="checkbox"/> treatment options including the intent of treatment, risks, and benefits</p> <p><input type="checkbox"/> advance care planning</p> <p><input type="checkbox"/> options for healthy lifestyle support to improve treatment outcomes such as exercise and nutrition.</p>
--	---

Step 6: Care after treatment	Step 6: Checklist
<p>The person and their whānau access appropriate follow up and surveillance and are supported to achieve their optimal health after cancer treatment.</p> <p>Provide a summary of the treatment and follow-up care plan to the person, their whānau and their GP outlining:</p> <ul style="list-style-type: none"> • diagnosis, including tests performed and results • treatment received (types and date) • current toxicities (severity, management and expected outcomes) • interventions and treatment plans from other health providers/professionals • potential long-term and latent effects of treatment and care of these • supportive care services provided • a follow-up schedule, including tests required and timing • contact information for key health care providers/ professionals who can offer support for lifestyle modification • a process for rapid re-entry to medical services for suspected recurrence • ongoing assessments of the effects of treatment such as: <ul style="list-style-type: none"> ○ fatigue ○ nutrition ○ sexual function ○ bladder function ○ peripheral neuropathy. 	<p><input type="checkbox"/> Provide a survivorship plan that includes a summary of the treatment and follow-up care plan to the person, whānau and their GP.</p> <p><input type="checkbox"/> Assess supportive care needs and refer to allied health services as required.</p> <p><input type="checkbox"/> Give the person and their whānau information on Cancer Society and/or relevant cultural services and support groups available.</p> <p>Communication</p> <p>The lead clinician and team are responsible for:</p> <p><input type="checkbox"/> explaining the treatment summary and follow-up and surveillance care plan to the person and their whānau.</p> <p><input type="checkbox"/> informing the person and their whānau about secondary prevention and healthy living.</p> <p><input type="checkbox"/> discussing the follow-up care plan with the GP of the person and their whānau.</p> <p><input type="checkbox"/> providing guidance for rapid re-entry to specialist services.</p>

Step 7: Palliative and end-of-life care	Step 7: Checklist
<p>Palliative and end-of-life care provides the person facing life-limiting conditions with holistic support and coordinated services based on their specific needs.</p> <p>Palliative care may be provided through:</p> <ul style="list-style-type: none"> • hospital palliative care • home and community-based care • community nursing, including access to appropriate equipment. <p>Early referral, identification, correct assessment and treatment of pain and other symptoms prevent and relieves suffering.</p> <p>End-of-life care should consider:</p> <ul style="list-style-type: none"> • appropriate place of care • person's preferred place of death • support needed for the person and their whānau. <p>Awareness of and access to, assisted dying services should be available if the person and their whānau raise this with the health care team.</p> <p>Communication</p> <p>A key way to support the person and their whānau is by coordinating ongoing, clear communications between all health providers/professionals involved in providing cancer care.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Early referral to palliative care services as required. <input type="checkbox"/> Refer to supportive care services as required. <input type="checkbox"/> Make sure the person and their whānau are aware of the prognosis and what to expect when someone is dying. <input type="checkbox"/> Discuss activation of advance care plan, directive, or enduring power of attorney.

How optimal cancer care pathways improve outcomes

Optimal Cancer Care Pathways (OCCPs) are critical tools for guiding the national delivery of consistent, safe, high-quality, evidence-based cancer care for people and whānau across Aotearoa New Zealand. Research shows OCCPs improve the outcomes and experiences of people and their whānau affected by cancer to guide the design and delivery of cancer care services that are systematic, equitable, connected, and timely (Cancer Council Australia, nd).

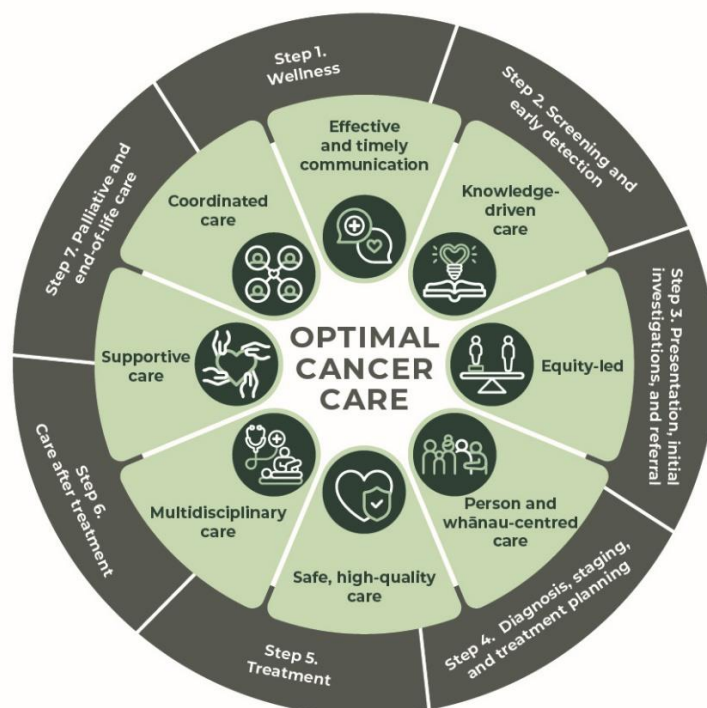
OCCPs are a framework for achieving health equity² in cancer control using a person and whānau centred approach to provide people with equitable, high-quality care, regardless of where they live or receive cancer treatment. OCCPs help to:

- identify gaps in existing cancer services
- address barriers and unwarranted variations in accessing high-quality care
- identify opportunities for system improvements
- continually improve the way services are planned and coordinated.

As shown in [Figure 1](#), the OCCPs map seven key steps in providing cancer care based on evidence-based practice, underpinned by eight principles to deliver the optimal level of care. While the seven steps appear linear, in practice, the care a person receives may not be. The steps provided will be tailored to their specific situation and needs, for example the type of cancer they have, when and how the cancer is diagnosed and managed, the person's decisions, and how they respond to treatment.

OCCPs are designed to be used alongside clinical guidelines. The OCCPs do not constitute medical advice or replace clinical judgement or guidance.

Figure 1: Optimal Cancer Care model



² Optimal Cancer Care Pathway Supplementary Information

Principles of the optimal cancer care pathway

The principles³ underpinning OCCPs are essential to achieving the best cancer care, experience, and outcomes of the person and their whānau. OCCPs put the person and their whānau at the centre of care planning throughout their treatment/care and prompt the health care system to coordinate high-quality care. The person and their whānau are informed and involved in decisions throughout their cancer experience, according to their preferences, needs and values.

Figure 2: Principles of optimal cancer care



³Optimal Cancer Care Pathway Principles

Optimal timeframes

Evidence based guidelines, where they exist, are used to inform clinical timeframes. Shorter timeframes for appropriate investigations, consultations and treatment can provide an improved experience for people and their whānau and better cancer outcomes. The three steps shown below are a guide for health providers/professionals and the person/whānau on the optimal timeframes for being assessed and receiving treatment. These timeframes are based on expert advice.

Figure 3: Timeframes for care

Step in pathway	Care point	Timeframes
Step 3: Presentation, initial investigations, and referral	Signs and symptoms	A person presenting with symptoms is promptly assessed by a health professional.
	Initial investigations started by GP	If symptoms suggest pancreatic cancer, the person and their whānau are referred to diagnostic service within 2 weeks for urgent investigation.
	Referral to a hospital specialist	The person should see a specialist within 2 weeks for a high suspicion of cancer.
Step 4: Diagnosis, staging, and treatment planning	Diagnosis and staging	Investigations should be completed within 2 weeks
	Multidisciplinary team meeting and treatment planning	All newly diagnosed people are discussed or registered in an MDM, before treatment begins. MDM takes place within 2 weeks of confirmed diagnosis and staging.
		The person referred with a high suspicion of pancreatic cancer and triaged by a clinician will receive their first cancer treatment within 62 days .
Step 5: Treatment	Neoadjuvant/ adjuvant systemic anti-cancer therapy, radiation therapy or surgery	The person begins their first cancer treatment within 31 days of the decision to treat, regardless of how they were initially referred
		The person begins adjuvant chemotherapy within 4 weeks after their surgery.

Optimal cancer care pathway

Seven steps of the optimal cancer care pathway

Step 1: Wellness

Step 2: Early detection

Step 3: Presentation, initial investigations, and referral

Step 4: Diagnosis, staging, and treatment planning

Step 5: Treatment

Step 6: Care after treatment

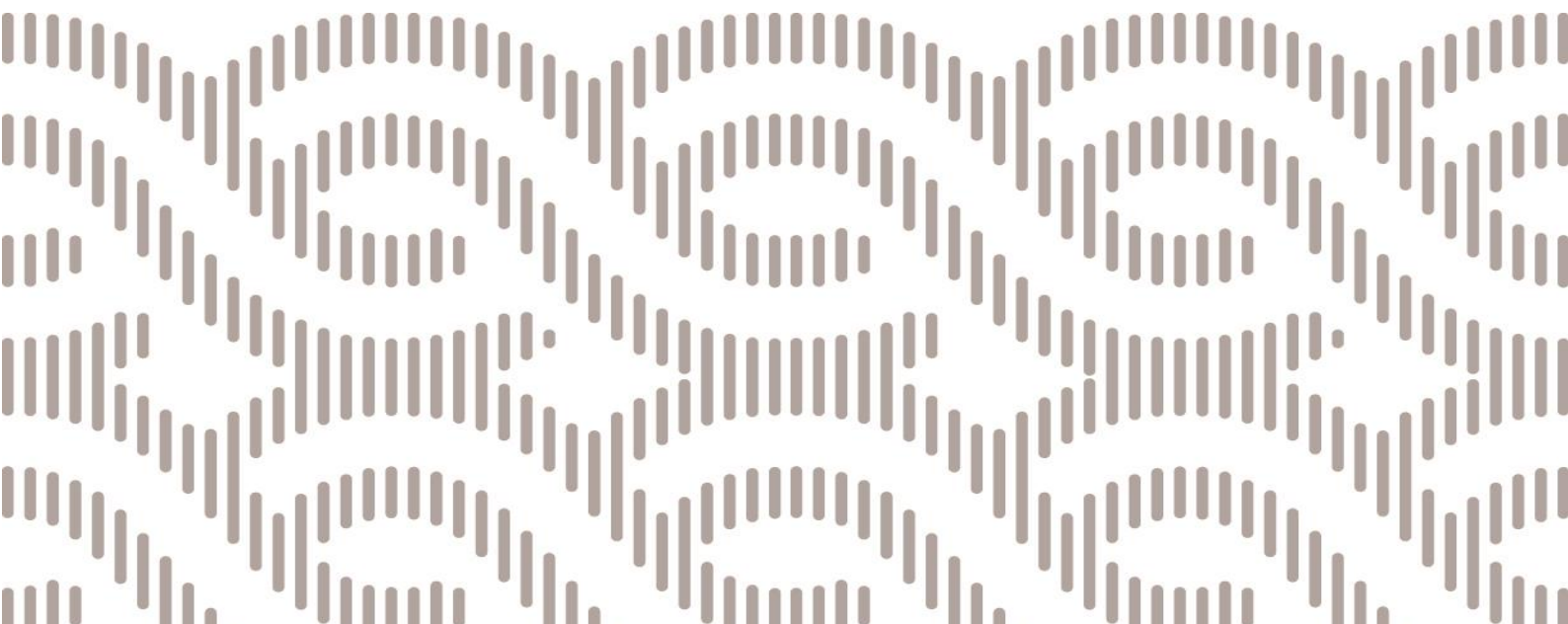
Step 7: Palliative care and end-of-life care

In New Zealand, pancreatic cancer is the 9th most common type of cancer, but it accounts for the 5th biggest of cancer deaths. According to New Zealand Cancer registry, in 2019, 723 people were diagnosed with pancreatic cancer which equivalent to the incidence of 8.6 per 100,000 people. The incidence of pancreatic cancer is significantly higher for Māori (10.4/100,000) compared with non-Māori (6.7/100,000) (Pancreatic QPI Descriptions).

Pancreatic cancer is known for its poor prognosis with overall 5-year survival rate between 5%-8% (Rawla et al 2019) and median survival from diagnosis ranges from 10-30 months (Lambert et al 2019). In New Zealand, the mortality rate is even worse in Māori who were 12% more likely to die from pancreatic cancer compared to non-Māori (Gurney et al 2020).

Pancreatic cancer often presents insidiously, displaying minimal or no symptoms in the early stages. Most people already have advanced disease by the time of diagnosis leaving treatment intent palliative rather than curative. Early introduction of palliative care service should be advocated for these people.

This optimal cancer care pathway covers pancreatic adenocarcinoma which accounts for more than 90% of pancreatic cancer cases. Pancreatic neuroendocrine tumours (PNETs) are not included in this pathway due to its distinct risk factors and different management options.



Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 1: Wellness

Cancer prevention efforts should be part of all cancer control pathways. This step recommends actions the person/whānau can take to improve their wellbeing and reduce the overall risk of cancer.

Health care providers and services such as primary care, public health units, hospitals, and non-governmental organisations (NGOs) work collaboratively to prevent cancer (and other conditions) with the person and their whānau and communities. Te Aho o Te Kahu (2022) produced a report outlining evidence-based, best-practice interventions to prevent cancer. Reducing cancer risk factors addresses work to achieve the goals of fewer cancers, better survival, and equity for all.

1.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through:

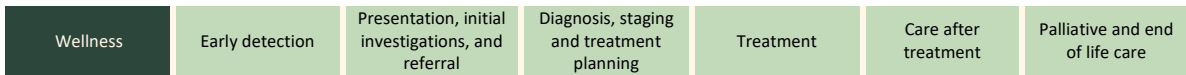
- culturally safe health care providers and practices embedded in all health services and steps of the cancer care pathway
- institutional and personal bias or racism within the health and disability system being acknowledged, identified, and addressed (Harris et al 2012)
- implementation of health and wellness approaches that support ritenga Māori (Māori customary rights) framed by te ao Māori (a Māori world view), enacted through tikanga Māori (Māori customs) and encapsulated with mātauranga Māori (Māori knowledges)
- meaningful partnerships with Māori communities and organisations that benefit Māori
- support and resource health promotion activities co-designed with Māori.
- prioritise achieving equity for screening participation rates in national cancer screening programmes (cervical, breast, bowel).

1.2 Modifiable cancer and wellbeing risks

Evidence-based research shows that general cancer and wellbeing risks can be reduced by:

- eating a nutritious diet
- maintaining a healthy weight
- taking regular, moderate to vigorous-intensity activity
- avoiding or limiting alcohol intake
- being sun smart
- identifying pre-disposing infections, such as hepatitis C
- immunisations – for example, HPV
- smoking including marijuana and exposure to second-hand smoke
 - current smokers (or those who have recently quit) should be offered best practice tobacco dependence treatment and an opt-out referral to an intervention service such as Quitline.
- avoiding vaping
- screening services, such as breast, cervical and bowel cancer screening
- preventing occupational exposure to asbestos, silica, radon heavy metal, diesel exhaust and polycyclic aromatic hydrocarbons (Te Aho o Te Kahu 2022).

Most cancer risk factors are not unique to cancer and are shared by other chronic diseases such as diabetes, heart disease and strokes (Te Aho o Te Kahu 2022).



1.3 Communication with the person/whānau receiving care

Health providers

- Raise and discuss any modifiable risk factors.
- Provide information and education regarding access to wellness programmes, including kaupapa Māori services.
- Discuss advance care planning, advance directive and/or Enduring Power of Attorney (EPA) as required (refer Principle 1)¹.

“Whānau look at prevention holistically.”
Person/whānau insights

Communication between health services

- Inform the person and their whānau of any referrals between health care services and wellness programmes.

1.4 Measuring and monitoring

Below is a list of national measures that inform this step and can be used to monitor and measure cancer care.

- **Smoking and vaping rates** (note: these measures apply to every step on the pathway).
 - The number of current smokers (aged 15 years and above) who smoke daily and have smoked more than 100 cigarettes their whole life as measured by the New Zealand Health Survey, by gender and ethnicity.
 - The number of vapers (aged 15 years and above) who have tried vaping and vape at least once a day as measured by the New Zealand Health Survey, by gender and ethnicity.
- **The New Zealand Health survey (NZHS)** provides information about the health and wellbeing of New Zealanders.
 - Health status and behaviours.
 - Risk factors.
 - Access to health care.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 2: Early detection

This step outlines recommendations for early detection for the person with suspected pancreatic cancer.

2.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through:

- making sure early detection of cancer is provided in culturally appropriate ways that recognise and support the expression of hauora Māori models of care
- providing access to co-designed kaupapa Māori cancer early detection programmes, where possible (Te Aho o Te Kahu 2022)
- implementing programmes that enhance access to cancer services

Māori and Pacific peoples often present at an earlier age than the general population, so awareness and consideration of this needs to factor into assessment and review of signs and symptoms.

2.2 Early detection

There is no national pancreatic cancer screening programme.

Early detection focuses on detecting symptomatic people as early as possible. Early detection has several benefits, including better treatment outcomes and improved survivorship.

Early detection for pancreatic cancer may be achieved through targeted investigations for high-risk individuals including people with strong family history of pancreatic cancer, genetic syndrome, or precursor lesions such as mucinous cystic neoplasms, intraductal papillary mucinous neoplasms and pancreatic intraepithelial neoplasms.

2.3 Pancreatic cancer risk factors⁴

2.3.1 Modifiable risk factors

- tobacco smoking
- obesity
- increased consumption of red meat and processed meat
- chronic alcohol consumption
- longstanding type 2 diabetes mellitus
- liver cirrhosis

2.3.2 Non-modifiable risk factors

- cystic lesions of the pancreas
- first degree relatives with pancreatic cancer
- genetic syndromes (hereditary breast and ovarian cancer syndrome, familial melanoma, familial pancreatitis, Lynch syndrome, Peutz-Jeghers syndrome, Von Hippel-Lindau syndrome)
- older age
- chronic pancreatitis
- male gender

⁴ IARC, 2025

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

- Asian or Pacific Islander ethnicity
- stomach infections with the bacterium *Helicobacter pylori*, which causes stomach ulcers

2.3.3 Familial cancer risk

Some people may have an increased risk of developing pancreatic cancer. An individual's family cancer history is reviewed and the person and their whānau are advised of the risks of developing a familial cancer.

Health providers encourage and support the person and their whānau to follow surveillance guidance if an increased risk of familial cancer is identified.

For further information visit:

- [Genetic Health Service New Zealand](#)
- [New Zealand Familial Gastrointestinal Cancer Service](#)

2.4 Communication with the person/whānau receiving care

Health providers/professionals

- Promote health checks.
- Raise and discuss any cancer risk factors.
- Provide information and education regarding early detection.
- Discuss any investigative results and follow up care as required.
- Discuss available supports, such as funding for travel and accommodation, one-stop clinics, community and/or marae-based services (where available), and same-day access to a chest x-ray.

"We went..... as a group...we could awahi each other."

"Education and at a marae would be good."

Person/whānau insights

Communication between health services

- Share results and further tests or referrals required with the appropriate service/specialty.

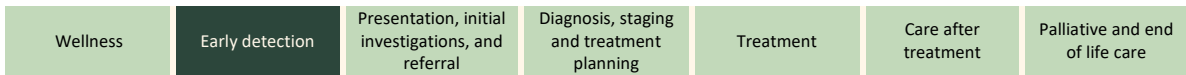
2.5 Measuring and monitoring

Monitoring and measuring are key components of contemporary best practice. Below is a list of national measures that inform this step and can be used to monitor and measure cancer care.

• **Faster Cancer Treatment**

Early detection through primary care that identifies a high suspicion of cancer and requires an urgent referral to specialist will be seen **within 2 weeks**. The following FCT business rules will apply:

- **31-day Health Target** - All people will receive their first cancer treatment (or other management) within 31-days from decision to treat. As a minimum, 90% of patients will receive their cancer treatment (or other management) within 31-days from the decision to treat. ([FCT business rules](#), 2023).



- **62-day indicator** – All people with a high suspicion of cancer (without a confirmed pathological diagnosis of cancer at referral) will receive their cancer treatment within 62-days from date of referral. As a minimum, 90% of patients will receive their cancer treatment (or other management) within 62-days from date of referral to first treatment.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 3: Presentation, initial investigations, and referral

This step outlines the process for initiation of the right investigations and referral to the appropriate specialist in a timely manner for the person with suspected pancreatic cancer.

The types of investigations undertaken will depend on many factors including the preferences of the person and their whānau.

Community HealthPathways provide a source of relevant detailed information for a prostate cancer assessment from a person's primary care presentation and referral to secondary care to specialist services (Community Health Pathways. 2024). You can read more in [Community HealthPathways](#).

The Community-referred radiology (CRR) Referral Criteria are criteria to provide nationally consistent access to imaging. The criteria set out a mandatory minimum level of radiology access to help primary care manage imaging in the community. Refer to: [National Community Referral Criteria for Imaging » Radiology](#).

3.1 Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through:

- prioritising Māori with a 'high suspicion of cancer' referral pathway until symptoms are proven otherwise
- engaging with kaupapa Māori services that are equipped to provide holistic Whānau Ora services in the community
- supporting Māori with access to diagnostics, investigations, and referrals through to the appropriate secondary services.

3.2 Signs and symptoms

Signs and symptoms suspicious of cancer that prompt initial investigations may be via primary care, elective care, or an acute admission. Primary care services work with the person and their whānau to assess, investigate, review, and refer to appropriate services within recommended timeframes (see Optimal Timeframe section). These timeframes are indicated by national FCT high suspicion of cancer pathways and the indicator data dictionary.

Timeframe for general practitioner consultation

A person with signs and symptoms that may suggest pancreatic cancer should be seen by a general practitioner **within 2 weeks**.

The person is assessed for signs and symptoms of pancreatic cancer, including any unexplained, persistent signs and symptoms lasting more than three weeks (or earlier in people with known risk factors). The presence of multiple signs and symptoms, particularly in combination with other underlying risk factors, may indicate an increased risk of cancer.

Māori and Pacific peoples often present at an earlier age than the general population, so awareness and consideration of this needs to factor into assessment and review of signs and symptoms.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

The following suspicious signs and symptoms of pancreatic cancer include:

- abdominal pain, commonly radiating to your back, can be vague and poorly localised
- acute pancreatitis where the cause is not alcohol ingestion and gallstones are not evident
- new-onset diabetes
- jaundice that is progressive, together with unexplained weight loss and abdominal pain that may radiate to the back (the jaundice may also be accompanied with dark urine, light-coloured stools, and itchy skin)
- pain, which is often severe, unrelenting and of a short duration
- unexplained weight loss
- pale and greasy stools
- nausea and vomiting
- constipation
- fatigue
- enlargement of gall bladder
- blood clot in the leg without a clear risk factor
- incidental lesions found on radiology.

If the person presents with one of the following red flags, the referral should be triaged as a high suspicion of cancer:

- painless obstructive jaundice
- unexplained weight loss with one or more of the following:
 - new-onset diabetes
 - new onset mid-back discomfort
 - steatorrhoea
 - nausea/vomiting.

3.3 Assessment

Pancreatic cancer assessment includes:

- **medical history:** including onset and duration of pancreatic-type epigastric pain, changes in bowel habits, steatorrhea, jaundice, unintentional weight loss, new-onset or pre-existing but newly unstable diabetes
- **risk assessment:** family cancer history or known genetic syndromes and individual pancreatic risk factors outlined in step 1.3
- **physical examination:** Eastern Cooperative Oncology Group (ECOG) Performance Status Scale, frailty assessment, weight, jaundice of skin, eye and tongue, abdominal assessment for palpable abdominal mass, epigastric tenderness radiating to the back, hepatosplenomegaly, or ascites.
- **investigations including:**
 - radiology: CT preferably pancreatic protocol
 - laboratory: full blood count, liver function tests, lipase, electrolytes and creatinine, C-reactive protein, coagulation studies, CA19-9, CEA, faecal elastase
- **social history:** to identify any barriers to access healthcare, support network or cultural linguistic barriers.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

3.4 Initiate investigations, including referrals

- If a pancreatic cancer diagnosis is suspected, a referral shall be made to an appropriate specialist with indication that there is a high suspicion of cancer and/or is urgent, and the person needs to be seen **within 2 weeks**.
- For the person with suspected or confirmed pancreatic cancer, initial referral should be made to general surgery service in secondary care irrespective of disease stage or presence of metastasis, to confirm the diagnosis as well as to determine and document the resectability of the cancer.
- Referrals are receipted back to the referring provider.

Timeframe for completing investigations for the person with suspected pancreatic cancer

Optimally, investigations should be completed **within 2 weeks**.

Referral options are clearly communicated with the person and their whānau, including details of expected timeframes, who to contact if they don't hear from the service referred to within the timeframe given, and any costs for accessing services.

When referring a person and their whānau for investigation or procedures, referrers must ensure that:

- the person is aware and encouraged to have a support person with them
- the procedure or investigation is explained to them in a way that they can understand, including in different formats and with a translator, as required
- Māori are referred to kaupapa Māori services if they choose and as available
- an investigation assessment is undertaken to identify if an individual can tolerate the preparation, procedure, or investigation
- assessment and support are given to address any possible barriers of accessing services, for example:
 - transport
 - financial
 - family situation that may impact on the decision to consent to a procedure
 - coordinating appointments and/or offering the person and their whānau, whānau focused bookings.

To support accurate triage, referral information must include the following information:

- signalled as high suspicion of cancer or urgent
- medication and allergies
- past medical history and current comorbidities
- results of relevant investigations
- notification if an interpreter service is required
- concerns that may require support or affect ability to attend appointments, undergo investigations or treatment.

Timeframe for referring to a specialist

Any person with symptoms suspicious of pancreatic cancer is referred to a specialist following guidelines in Community HealthPathways. The specialist should see the person with proven or suspected cancer and their whānau **within 2 weeks** of diagnosis or a high suspicion of cancer. If necessary, prior discussion should facilitate referral (Community HealthPathways 2024).

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

High suspicion of cancer referrals must be triaged in a timely manner **within 1–2 working days** by an appropriately trained person (nurse specialist or doctor) and consistent with **FCT Business Rules** and/or other prioritisation classification criteria.

If symptoms are concerning and the referral is not accepted, primary care 'safety netting' for re-assessment is recommended.

3.5 Supportive care and communication

Assess the supportive care needs of the person and their whānau. Where appropriate, give them:

- access to investigations and care following referral, such as financial, transport and personal support
- help for dealing with psychological and emotional distress, for example, anxiety, depression, interpersonal concerns, and adjustment difficulties to a potential diagnosis of cancer
- information regarding supportive services that they can engage with at a time suitable to them
- referrals to kaupapa Māori and Whānau Ora services at their request.

3.5.1 Communication with the person/whānau receiving care

Health providers/professional

- Provide information regarding their role in the health care team.
- Explain who the person and their whānau is being referred to, the reason for the referral and the expected timeframes for appointments.
- Explain the need for the person and their whānau to return to the GP if signs and symptoms change while waiting for investigations and/or assessment.
- Request that the person notify the delegated clinic or their own GP practice if the specialist has not been in contact within the expected timeframe.
- Discuss the range of services available (including private), referral options, and any costs associated with accessing these services.
- Inform the person and their whānau that they can contact or request a referral to NGOs that provide supportive care, including local Māori health service providers/professionals.
- Give written and verbal information regarding planned investigations and referral services.
- Clarify that the person and their whānau understands the information that has been communicated.

***"Whānau face multiple barriers to primary care."
"That safety net had been taken away."***

Person/whānau insights

Communication between health services

- Include relevant information in referrals, as identified in Steps 3.3 and 3.4.
- Notify the referrer of the acceptance of referral and expected timeframes to be seen or decline of referral and reasons for decline.
- Notify changes in referral status (either changes to symptoms or wait time changes).
- Ensure roles and responsibilities are understood, including GP/lead clinician responsible for checking and notifying results to the person and their whānau.
- Acknowledge receipt of referrals.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

3.6 Measuring and monitoring

Below is a list of national measures that inform this step and can be used to monitor and measure cancer care.

Faster Cancer Treatment

Early detection through primary care that identifies a high suspicion of cancer and requires an urgent referral to specialist will be seen **within 2 weeks**. The following FCT business rules will apply:

- **31-day Health Target** - All people will receive their first cancer treatment (or other management) within 31 days from decision to treat. As a minimum, 90% of patients will receive their cancer treatment (or other management) within 31 days from the decision to treat.
- **62-day indicator** – All people with a high suspicion of cancer (without a confirmed pathological diagnosis of cancer at referral) will receive their cancer treatment within 62 days from date of referral. As a minimum, 90% of patients will receive their cancer treatment (or other management) within 62 days from date of referral to first treatment.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 4: Diagnosis, staging and treatment planning

This step outlines the process for confirming the diagnosis and stage of cancer and the planning of subsequent treatment in discussion with the person and their whānau.

Health services work with the person and their whānau to diagnose and stage the cancer, provide treatment options and recommendations, and help meet any identified needs. This generally occurs in secondary or tertiary health care services. Assessment and investigation results, including discussions between the appropriate multidisciplinary team members and the person and their whānau, will help to determine the treatment options recommendations and plan.

4.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through:

- prioritising access for Māori to diagnostics, staging, and treatment planning
- supporting the person and their whānau to access holistic care, including mātauranga Māori traditional practices and emotional and spiritual support to complement medical treatment
- talking with the person and their whānau and clinicians about current or intended use of rongoā or other complementary therapies to understand the potential benefits, risks and/or other implications
- consultation with the person and their whānau regarding what they would like to happen to any bodily tissue or organs removed as part of their diagnostic workup and treatment.

4.2 Specialist investigations (diagnostic work up for pancreatic cancer)

Where possible the diagnosis of cancer is established or confirmed before treatment is planned. There is no examination that is specific for the diagnosis of pancreatic cancer. The person/ whānau will have several tests to confirm a diagnosis of pancreatic cancer. The specialist may request additional investigations. This may be before or after the first specialist appointment and include:

Radiology

- CT scan with pancreatic protocol (if not already performed)

If diagnostic uncertainty remains, the following investigations are recommended:

- contrast-enhanced MRI or magnetic resonance cholangiopancreatography (MRCP)
- percutaneous biopsy with radiology guidance.

Interventional Endoscopy

- Endoscopic retrograde cholangiopancreatography (ERCP).
- Endoscopic ultrasound with or without fine needle aspiration.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Timeframe for completing investigations

Diagnostic investigations should be completed **within 2 weeks** of the initial specialist assessment.

4.3 Staging

Accurately staging cancer helps guide treatment decisions and is a significant contributor to providing a cancer prognosis (Te Aho o Te Kahu 2021a). When cancer is diagnosed, additional investigations are often conducted to establish how much the cancer has grown and if, and how far, it has spread. The following additional tests may be required:

- CT scan of the chest, abdomen, and pelvis (if not already performed)
- MRI liver to rule out or confirm liver metastases
- PET-CT if the person is a candidate for radical surgery on conventional imaging and discussed in MDM (Health New Zealand | Te Whatu Ora National Indications for Publicly funded PET-CT 1 March 2024)
- Laparoscopy with or without laparoscopic ultrasound
- Endoscopic ultrasound.

To note, pathological staging may occur after surgery for some cancers.

4.4 Performance status

Performance status is assessed to inform prehabilitation and treatment recommendations and documented using the Eastern Cooperative Oncology Group (ECOG) Performance Status Scale (ECOG-ACRIN Cancer Research Group, nd). The degree of benefit of treatment for an individual may vary according to diagnostic, staging and prognostic factors and performance status.

In older people with cancer, a geriatric assessment measures their level of fitness and treatment tolerability. People over the age of 70 years should undergo some form of geriatric assessment (COSA 2022). Screening tools can be used to identify those who will benefit most from these comprehensive assessments.

Geriatric assessments can help tailor the treatment plan, address any issues found with the multidisciplinary team, and provide interventions to optimise the person's general health status (Seghers et al 2023).

4.5 Clinical genetics

Referral to clinical genetic services for pancreatic cancer is considered if features of the cancer suggest a genetic predisposition, such as:

- early age onset
- multiple primary cancers.

For further information see:

- [Genetic Health Service New Zealand](#)
- [New Zealand Familial Gastrointestinal Cancer Service](#)

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

4.6 Multidisciplinary meeting

Optimal cancer care requires a multidisciplinary approach to tailor treatment plans to the person's needs in collaboration with their whānau and the health care team.

- Referral to GI/Hepato-pancreato-biliary cancer MDM following nationally agreed referral criteria is undertaken to inform treatment recommendations or further assessment and investigation.
- The multidisciplinary team discusses complex cancer cases and recommends a treatment plan.
- Results of all relevant tests and access to images must be available for the MDM.
- Information about the person and their whānau, their overall condition, co-morbidities, personal preferences, and social and cultural circumstances must be available for the MDM.
- The level of discussion may vary, depending on the person and clinical and supportive care factors.
- The proposed treatment plan will be recorded in the person's medical record and MDM database, and communicated to the referrer and primary care provider **within 2 days** of the MDM.
- The lead clinician and/or team discusses the recommendations from the MDM with the person and their whānau **within 2 weeks** of the MDM, so they are able to take part in decision-making about ongoing treatment and care.

MDMs are managed and guided by the following standards:

- [Standards for High-Quality Multidisciplinary Meetings \(MDMs\) in Aotearoa New Zealand](#) (Te Aho o Te Kahu 2024)
- [HISO 0038.4:2021 Cancer Multidisciplinary Meeting Data Standard](#) (Te Aho o Te Kahu 2021b)

4.6.1 Treatment options and recommendation

Following MDM, treatment intent is discussed with the person and their whānau. Treatment intent ranges from curative, non-curative, symptom palliation and palliative care.

Treatment, referral options and recommendations are discussed with the person and their whānau to enable informed decision making in accordance with their rights and ability to exercise independence, choice, and control. The advantages and disadvantages of recommended treatments and associated potential side effects are discussed in plain language with interpreter support as required. Other support may be required for this discussion such as kaumātua/kuia, chaplain and nursing staff as required.

Further discussion between health services (primary care and specialists) and the person and their whānau will ensure comorbidities are well managed. This optimises the person's health to be able to cope with the proposed cancer treatment and its effects.

4.6.2 Fertility preservation

A referral to fertility preservation alongside a contraception assessment and advice should be discussed with the person and their whānau dependent on age, type of cancer and the treatment planned. An early, collaborative, and multidisciplinary approach with the person is undertaken, which maximises the opportunity for best practice contemporary care and consideration for future fertility.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

4.6.3 Prehabilitation

Prehabilitation (preparing for treatment) is the process of optimising a person's overall wellbeing prior to undergoing cancer treatment. Ideally, prehabilitation should begin as early as possible after a cancer diagnosis to allow adequate time for interventions to take effect. A nominated service provider is tasked with coordinating prehabilitation. Prehabilitation is initiated and assessed by primary or hospital services and may require referral to additional services for example:

- smoking cessation
- medications to ensure optimisation and correct adherence
- rongoā
- psychosocial support
- physiotherapy or exercise programme – aerobic, respiratory training, resistance training for person and their whānau preparing for surgery
- nutrition.

4.6.4. Clinical trials

Where eligible, the person with cancer is offered and supported to participate in research or clinical trials. Many emerging treatments are only available as clinical trials and may require referral to specific trial centres.

4.7 Supportive care and communication

4.7.1 Care coordination

Care coordination supports the navigation through diagnosis, staging, and treatment planning. The person and their whānau receive tailored education and are enabled to ask questions, seek further clarity around treatment options and recommendations, and gain support around the potential next steps in the pathway. The care coordinator will assist in the coordination and navigation of care, support the person and their whānau, and complete any additional referrals that may be required.

People and their whānau who have someone coordinating their care are often more satisfied with the opportunities provided to them and the decision-making process about their care (Cancer Institute NSW 2010).

The person and their whānau will have a clear understanding of what to expect at each step of the cancer pathway, with a clear point of contact should they require support or further information (refer Principle 6).

4.7.2 Supportive Care

Assess the supportive care needs of the person and their whānau, including:

- care coordinator is in place
- prehabilitation
- early referral to palliative care
- contraception and fertility support
- information and education needs are met (for further information refer to Step 3.5).

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

4.7.3 Communicating with the person/whānau receiving care

Health providers/professionals

- Ensure that person and their whānau have the option to have additional support people with them when having discussions.
- Explain and discuss with person's diagnosis, staging and treatment options and recommendations in plain language.
- Discuss the advantages and disadvantages of treatment options and associated potential side effects.
- Provide information and resources in a format that is useful to the person and their whānau (and that they can share with others as they wish).
- Identify any barriers or challenges that may prevent the person and their whānau from accessing services or attending treatment.
- Discuss with the person and their whānau ways to improve health outcomes and wellbeing prior to and during treatment.
- Advise the person and their whānau of their lead clinician and care coordinator.
- Clarify that the person and their whānau have understood the information that has been communicated.
- The person and their whānau may require time to process the information that has been relayed, prior to consenting to treatment.
- Coordinate scheduling of appointments with the person and their whānau to ensure access barriers are minimised and attendance is supported.
- Discuss with the person and their whānau the need to update or complete their advance care planning and/or advance directive.

"A lot of people need to travel hours to get to an appointment and don't have vehicles or family support."
Person/whānau insights

Communicating between health services

- Coordinate appointments among health services, in discussion with the person and their whānau to make best use of their time and resources and to support access.
- Communicate the diagnosis, MDM recommendations and treatment plan between health services.
- Discuss and agree shared care arrangements, in symptom and co-morbidity management, supportive care and referral to local services.
- Confirm the lead clinician and provide handover details as necessary.

4.8 Measuring and monitoring

Below is a list of national measures that inform this step and can be used to monitor and measure cancer care.

- **Te Aho o Te Kahu Pancreatic Cancer Quality Performance Indicator**
 - PQI 01: Route to diagnosis - Proportion of people diagnosed with pancreatic cancer within 30 days of an emergency/acute admission to hospital (Te Aho o Te Kahu, 2023).
 - PQI 08. Tissue diagnosis: Proportion of people with pancreatic cancer who had a recorded tissue diagnosis.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

- **Faster Cancer Treatment**

- **31-day Health Target** - For the 31-day pathway, the MDM and person and their whānau agreement to treatment is completed as soon as possible following MDM to enable them to meet the 31-day Health Target.
- **62-day indicator** – If a person does not attend MDM within 28 days, they are unlikely to meet the 62-day pathway.

- **MDM Standards audits**

For audit compliance with standards and standards audit tool the following may be used:

- **Standards for High-Quality Multidisciplinary Meetings (MDMs) in Aotearoa New Zealand** (Te Aho o Te Kahu 2024)
- **HISO 0038.4:2021 Cancer Multidisciplinary Meeting Data Standard** (Te Aho o Te Kahu 2021b)

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	------------------	----------------------	---------------------------------

Step 5: Treatment

This step describes publicly funded optimal treatments for pancreatic cancer by trained and experienced clinicians and team members, in an appropriate environment.

5.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through ensuring that:

- services achieve equity of access and outcomes irrespective of where treatment occurs
- equity in access to treatment is facilitated through active and coordinated support of financial and social barriers to treatment
- tikanga Māori and rongoā is integrated and applied in discussion with treating clinicians
- a referral to the Kia Ora E Te Iwi (KOETI) programme (Cancer Society) occurs as required
- the person and their whānau have all the information and resources to support their mana motuhake (empowerment).

5.2 Treatment intent

The treatment intent should be established in a multidisciplinary meeting/setting (see Step 4.6), documented in the person's medical record, and shared with the person and their whānau as appropriate. Discuss the advantages and disadvantages of recommended treatments and associated side effects in plain language to support the person and their whānau to make an informed decision. If there is more than one suitable treatment option, services could facilitate the decision making of the person and their whānau by having all specialties involved in the single appointment.

Timeframes for starting treatment are informed by evidence-based guidelines where available. The treatment team recognises that shorter timeframes for appropriate consultations and treatment often provide a better experience for people.

Confirm decisions, and consent for treatment. If treatment is agreed, develop a treatment care plan that includes:

- what the treatment and intent is, alongside likely impacts
- ways to improve health outcomes and wellbeing during treatment, this includes where they can receive support and information
- expected timeframes.

5.2.1 Additional considerations

Undertake a needs assessment and address any possible barriers or challenges (such as financial, social, care coordination and cultural obligations) that may prevent the person and their whānau from accessing treatment. Formally involving the palliative care team/service early can benefit the person receiving care, so it is important to know and respect each person's preference.

The person's current or intended use of any traditional or complementary therapies, including rongoā, will need to be discussed. Information resources should be provided so the person and their whānau can review and take these away for further reflection and sharing, including contact information for services and key care coordinators.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Initiate advance care planning discussions with the person and their whānau before treatment begins (this could include appointing a substitute decision-maker and completing an advance care directive).

Ensure prehabilitation is underway (as appropriate) to optimise treatment outcomes, and manage any comorbidities, prior to treatment. Depending on the treatment decided, additional prehabilitation activities may need to be initiated.

If initial treatment is declined, discuss next steps fully with the person and their whānau. This includes the option to re-engage with initial treatment if they change their minds, with the understanding it may no longer be viable and/or suitable.

Ensure an escalation plan with key contact people is developed if the person becomes unwell before treatment begins.

5.3 Treatment options

The type of treatment recommended for pancreatic cancer depends on the type, stage and location of the cancer and the person's age, health, and preferences. Treatment may include a combination of the items listed below, concurrently, or sequentially, to maximise outcome.

The person may also be supported to participate in research or clinical trials where available and appropriate. Many emerging treatments are only available as clinical trials and may require referral to certain trial centres.

- **Surgery**

People suitable for surgery please refer to the Capability Requirements for Complex Surgery in Aotearoa New Zealand - Hepato-Pancreatico-Biliary (HPB) (Te Aho o Te Kahu 2024).

The potential for curative surgery depends on the staging of pancreatic cancer. Only 10–20% of people have clearly resectable disease after careful preoperative staging. The potential for surgery is assessed by the multidisciplinary team.

Curative surgery includes the following options:

- Whipple procedure (resection of the head of pancreas, duodenum (part of the small bowel) +/- part of the stomach)
- distal pancreatectomy (resection of the distal (body-tail) part of the spleen +/- the spleen)
- total pancreatectomy (removal of entire pancreas, gallbladder, common bile duct +/-spleen, resection of duodenum and part of the stomach).

- **Systemic anti-cancer therapy**

People suitable for systemic anti-cancer therapy (SACT) please refer to The Model of Care for Adult Systemic Anti-Cancer Therapy Services in Aotearoa (Te Aho o Te Kahu 2024).

If the cancer is deemed surgically curable the following should be considered (National Cancer Institute 2024):

- neoadjuvant chemotherapy or chemoradiation therapy, especially in people with borderline resectable disease or delay in surgery
- adjuvant chemotherapy.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Timeframes for starting treatment

Surgery should be completed **within 31 days** of decision to treat if no neoadjuvant therapy is required. If systemic anti-cancer treatment is a first treatment, treatment should occur as per FCT indicators.

The most used therapies in unresectable pancreatic cancer include:

- biliary decompression through endoscopic or radiological intervention
- surgical interventions –palliative surgical biliary and/or gastric bypass
- coeliac plexus or intrapleural block
- chemotherapy
- chemotherapy followed by radiation therapy with or without additional chemotherapy.

• Radiation therapy

People suitable for radiation therapy please refer to The Radiation Oncology Model of Care (Te Aho o Te Kahu 2024).

For people who are too unwell to undergo curative therapy, radiotherapy has been shown to improve survival, pain control and hospital admissions compared with the best supportive care.

Timeframes for starting treatment

The first treatment should begin **within 31 days** of decision to treat.

• Other therapies

People who may benefit from other surgical, endoscopic, or radiological therapies includes those who require:

- relief of obstruction
- biliary decompression
- symptom palliation.

Endoscopic stenting is recommended as initial palliation for biliary obstruction. Percutaneous transhepatic biliary stenting may be required for failed endoscopic stenting.

For people with gastric outlet obstruction, either surgical bypass or endoscopic stenting would be appropriate.

It is important to discuss the risks versus benefits of any palliative therapy if the persons prognosis is not changed with implementation.

• Palliative care

Palliative care is an integral part of cancer treatment and care. It offers specific assessments, supportive care programmes, and services focused on living with and dying from cancer. Early referral and access to palliative care is a critical aspect of best practice. The person and their whānau who cannot be offered curative treatment, or declines curative treatment, as well as those with a significant symptom burden, should be offered prompt access to palliative care services.

Treatment includes managing the impact of cancer therapy, including the management of physical symptoms, distress, and other clinical issues a person and their whānau may experience.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Early referral to palliative care and other health services is recommended to help manage:

- nutritional support including Pancreatic Enzyme Replacement Therapy (PERT)
- sexual dysfunction
- psychological care to address the potentially disabling psychological events associated with the diagnosis and treatment of pancreatic cancer
- peripheral neuropathy
- fatigue.

5.3.1 Clinical Trials

The person is supported to participate in research or clinical trials where available and appropriate. Many emerging treatments are only available as clinical trials and may require referral to certain trial centers (refer Principle 8).

5.4 Treatment summary

A treatment summary will be provided by the treating service for the person and their whānau and clinicians involved in their follow up care, including primary care. The summary includes:

- relevant diagnostic tests performed and results
- cancer diagnosis, characteristics, stage, and prognosis
- treatment received
- current toxicities (severity, management and expected outcomes)
- interventions and treatment plans from other health providers/professionals
- potential long-term and late effects of treatment
- supportive care services provided
- recommended follow up and surveillance.

5.5 Supportive care and communication

Supportive care needs for the person and their whānau are assessed for all cancer treatment modalities, including surgery, chemotherapy, radiation, and palliative care.

Assess challenges and changes in health status that may arise for the person and their whānau due to their treatment, including:

- access to expert health providers/professionals with specific knowledge about the psychosocial needs of people undergoing pancreatic cancer care
- potential isolation from normal support networks, particularly for rural people who are staying away from home for treatment
- general health care issues (such as smoking cessation and sleep disturbance), which can be referred to a general practitioner
- altered cognitive function due to chemotherapy or radiation therapy, which requires strategies such as maintaining written notes or a diary and repetition of information
- loss of fertility, sexual dysfunction or other symptoms associated with treatment or surgically or chemically induced menopause, which requires sensitive discussion and possible referral to a clinician skilled in this area
- decline in mobility or functional status
- management of physical symptoms such as pain, arthralgia, and fatigue
- early management for acute pain postoperatively to avoid chronic pain
- side effects of chemotherapy such as neuropathy, cardiac dysfunction, nausea, and vomiting – managing these side effects is important in protecting the person's quality of life

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

- managing complex medication regimens, multiple medications, assessment of side effects and assistance with difficulties swallowing medications – referral to a pharmacist may be required
- weight changes – may require referral to a dietitian before, during and after treatment
- hair loss and changes in physical appearance – referral to Look Good Feel Better
- assistance with beginning or resuming regular exercise – referral to an exercise physiologist or physiotherapist.

The person and their whānau may also need to manage:

- financial issues related to loss of income (through reduced capacity to work or loss of work) and additional expenses as a result of illness or treatment
- advance care planning, which may involve appointing a substitute decision-maker and completing an advance care directive
- legal issues (completing a will, care of dependent children) or making an insurance, superannuation or social security claim based on a terminal illness or permanent disability.

5.5.1 Care coordination

Care coordination will support the person and their whānau through treatment. The care coordinator supports the implementation and activation of supportive care needs through the provision of information, education and referral regarding the concerns and issues that have been raised by the person and their whānau (refer Principle 5).

5.5.2 Communication with the person/whānau receiving care

Health providers/professionals

- Confirm lead clinician and other treatment teams/members involved in care.
- Advise the person and their whānau of the expected timeframes for treatment and ensure they have a key contact person.
- Clarify that the person and their whānau understand the information that has been communicated.
- Refer the person to supportive care and other health care services to optimise wellbeing.

“A whānau need to have a choice of services including rongoā, mirimiri etc. and know how to access tohunga, particularly for whānau who may be disconnected from te ao Māori”

Person/whānau insights

Communication between health services

- Confirm the lead clinician and handover as necessary.
- Confirm the diagnosis, treatment intent, recommendations, and plan, including potential side effects.
- Communicate supportive treatment plan and referrals between health services.
- Advise of any enrolment in clinical trial as appropriate.
- Advise of changes in treatment or medications.

5.6 Measuring and monitoring

Monitoring and measuring are key components of contemporary best practice. Below is a list of national measures that inform this step and can be used to monitor and measure cancer care.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

- **Te Aho o Te Kahu Pancreatic Quality Performance Indicators**

- PQI 06. Pancreatic resection: Proportion of people with pancreatic cancer who had a pancreatic resection.
- PQI 07. Biliary drainage/stenting: Proportion of people with pancreatic cancer who had a biliary drainage procedure.
- PQI 09. Medical Oncology Review: Proportion of people with pancreatic cancer who were reviewed by a medical oncologist.
- PQI 11. Radiation therapy: Proportion of people with pancreatic cancer who have received radiation therapy.
- PQI 15. Days alive and out of hospital: Median number of days alive and out of hospital 30 days after pancreatic resection for pancreatic cancer.
- PQI 16. Post-operative mortality: Proportion of people with pancreatic cancer who died within 30 and 90 days of pancreatic resection.

For those who have started on the FCT pathway, the FCT wait time indicators will apply. FCT applies to a person's first cancer treatment of a new cancer.

- **Faster Cancer Treatment**

- **31-day Health Target** – All people will receive their first cancer treatment (or other management) within 31 days from decision to treat. As a minimum, 90% of patients will receive their cancer treatment (or other management) within 31 days from the decision to treat.
- **62-day indicator** – All first treatments will be started within 62 days from referral or 31 days from decision to treat (includes surgery, chemotherapy, and radiation therapy). As a minimum, 90% of patients will receive their cancer treatment (or other management) within 62 days from date of referral to first treatment. (Ministry of Health | Manatū Hauora. 2023.)

- **Medical oncology treatment timeframes**

- Category A – urgent within 48 hours
- Category B – semi-urgent within 2 weeks
- Category C – routine within 4 weeks
- Category D – combined modality treatment (determined by scheduling of the two treatment modalities).

- **Radiation oncology treatment timeframes⁵**

- Category A – treat within 24 hours.
- Category B – treat within 10 working days.
- Category C (palliative intent) – treat within 10 working days
- Category C (curative intent) – treat within 20 days.
- Category D – combined modality treatment (determined by scheduling of the two treatment modalities).
- Category E (benign disease) – treat within 80 working days.

⁵ Radiation Oncology Waitlist Data Business Rules – [Te Whatu Ora](#)

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 6: Care after treatment

The person accesses appropriate follow up and surveillance and is supported to achieve their optimal health after cancer treatment.

The transition from active treatment to care after treatment is critical to supporting long-term health. Survivorship care planning is the umbrella term for care described in this step, and whilst aspects of this care begin at diagnosis (prehabilitation, supportive care, etc) the term itself is not often used until this part of the pathway.

In some cases, people will need ongoing specialist care, and in other cases a shared follow up care arrangement with their general practitioner may be appropriate. This will be informed by the type and stage of a person's cancer, the treatment they have received and the needs of the person and their whānau (refer Principle 5).

6.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through:

- offering options for holistic recovery and wellness care within hauora Māori models of care
- providing access to clinical, psychological, social, financial, and cultural support to transition back into recovery and life after cancer treatment.
- offering options for holistic recovery and wellness care within hauora Māori models of care
- provide access to clinical, psychological, social financial and cultural support to transition back into recovery and life after cancer treatment.

6.2 Survivorship care planning

After completing initial treatment, a designated member of the multidisciplinary team (most commonly nursing or medical staff involved in the person's care) should undertake survivorship care planning with the person and their whānau.

The survivorship care plan should cover, but is not limited to:

- the provision of a treatment summary
- information on what medical follow up and surveillance is planned
- how care after treatment will be provided, including by whom and where, and contact information
- inclusion of care plans from other health providers to manage the consequences of cancer and cancer treatment
- information about wellbeing and primary and secondary prevention health recommendations that align with chronic disease management principles (Step 1)
- rehabilitation recommendations and any referrals
- available support services, including cancer NGO survivorship programmes/services (these may be tumour specific)
- signs and symptoms to be aware of that may indicate the cancer has recurred
- the process for rapid re-entry to specialist medical services.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

As people are often followed up for five or more years after treatment, this plan needs to be regularly reviewed and updated to reflect changes in the person's clinical and psychosocial status. All health providers involved in the follow up care are responsible for updating the care plan.

6.3 Treatment summary

A treatment summary will be provided by the treating service(s) to the person and their whānau and to those clinicians involved in follow up care (see Section 5.4 for details).

The summary includes:

- the diagnostic tests performed and results
- cancer diagnosis, characteristics, stage, and prognosis
- treatment received (types and dates)
- current toxicities (severity, management and expected outcomes), including who to contact should they have any concerns about these
- interventions and treatment plans from other health providers
- potential long-term and late effects of treatment.

6.4 Rehabilitation and recovery

Rehabilitation may be required at any point in the care pathway. Issues that may need to be dealt with at this stage include managing cancer-related fatigue, coping with cognitive or physical changes, returning to study or work, and ongoing adjustment to cancer and its sequelae.

For people with pancreatic cancer, assessment for referral to the following rehabilitation or recovery services should be undertaken:

- physiotherapy
- nutritional support including Pancreatic Enzyme Replacement Therapy (PERT)
- psychosocial support.

6.5 Follow up and surveillance

Follow up and surveillance can have multiple functions, including:

- evaluation of treatment response
- early identification of recurrence
- early detection of new primary tumours
- monitoring and management of complications
- optimisation of rehabilitation
- provision of support to the person and their whānau.

Care after treatment is driven by predicted risks and an individuals' clinical and supportive care needs.

Care includes regular physical examinations and medical tests and is based on the medical guidelines for the specific type and stage of cancer, the treatment that's been received, and the needs and wishes of the person and their whānau.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Currently there is no consistent / nationally agreed protocol for postoperative surveillance in Aotearoa New Zealand for pancreatic cancer. As there are no guidelines to inform follow up and surveillance, planning needs to include:

- who will be providing follow up care for example, their specialists, their primary care provider (including palliative care) or if there will be a shared care approach (see Principle 1). Generally, people will have at least one clinic visit with the specialist(s) involved in a person's treatment and care to date
- what tests (such as blood or radiological tests) need to be carried out, who is responsible for ordering them, how frequently they need to be done, and who will discuss the results with the person and their whānau
- the frequency people should be seen and for what timeframe.
- Follow-up appointments are more frequent initially, becoming less frequent as time goes on.
- who the person and/or their whānau should contact if they have any concerns.

Note that for some people follow-up appointments are reassuring; however, for others this may be anxiety-inducing.

6.6 Signs and symptoms of recurrent disease

The likelihood of recurrence depends on many factors usually related to the type of cancer, the stage of cancer at presentation and the effectiveness of treatment. Educating the person and their whānau about potential symptoms of recurrence is critical for timely management. Signs and symptoms for recurrent pancreatic cancer depend on the location of recurrence. The common symptoms suggesting recurrence are usually abdominal pain, fatigue, back pain, unintentional weight loss, loss of appetite and nausea.

6.6.1 Rapid re-entry to specialty services

Service providers have a process for rapid re-entry to specialty services for suspected recurrence and advise people and their whānau of how to do this if required.

6.7 Clinical trials

Where eligible, the person with cancer is offered and supported to participate in research or clinical trials. These might include studies to understand survivor's issues, to better manage treatment side effects, or to improve models of care and quality of life.

6.8 Supportive care, care coordination and communication

As the person transitions from active treatment, their needs often change, and health providers need to support the person to cope with life beyond their active treatment (refer Principles 5, 6 and 7).

Health providers work with people and their whānau to assess and address their needs, including:

supportive care

Health providers undertake a needs assessment to inform the survivorship care plan and make appropriate referrals.

"The need for care doesn't stop when treatment finishes."
"Whānau feel forgotten when treatment ends."
 Person/whānau insights

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

coordinated care

Follow up care is provided closer to home and appointments coordinated to make access easier for the person and their whānau, where possible.

Continuity of care is provided where possible and appropriate – for example, people and their whānau should have the ability to continue to be supported by members of the care coordination team who they have developed a relationship with during their journey.

effective and timely communication

The person and their whānau are provided with a copy of their survivorship care plan, including information on any referrals that have been made.

Health providers involved in the follow up care of an individual have access to the up-to-date care plan, especially if primary care is involved, and can update the plan as required.

6.9 Measuring and monitoring

- **Te Aho o Te Kahu Pancreatic Cancer Quality Performance Indicator**

- PQI 17. Overall survival: Proportion of people with pancreatic cancer who survived at one, two, and five years from diagnosis.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Step 7: Palliative and end-of-life care

Palliative and end-of-life care provides the person facing life-limiting conditions with holistic support and coordinated services based on their specific needs.

Palliative and end-of-life care is an essential health service to optimise the person's quality of life until they die. This involves supporting the person's physical, psychosocial, spiritual, and cultural needs, and supporting their whānau with bereavement support. It is appropriate at any stage in a serious illness.

“You matter because you are you. You matter to the last moment of your life, and we will do all we can to help you not only die peacefully, but also to live until you die.”

Dame Cecily Saunders

7.1 Te Tiriti o Waitangi

Health providers/professionals enable and enact Te Tiriti o Waitangi through ensuring that:

- the person and their whānau have the choice to access Kaupapa Māori support services for living with cancer (stable, progressive or end-stage)
- rurality does not restrict access to critical clinical, social, cultural and resource support for the person and their whānau
- palliative and end-of-life care is integrated across health services.

7.2 Palliative care

Palliative care prevents and relieves suffering through the early identification, correct assessment and treatment of pain and other symptoms, whether physical, psychosocial, or spiritual, and improves the quality of life (World Health Organisation 2020).

Palliative care should be provided by all health professionals. Palliative care uses a team approach with non-specialist services (primary care, community care and generalist hospital services) supported by specialist palliative care services (hospitals, hospices). Palliative care services must be integrated with primary, community and secondary care, responsive and locally appropriate.

In many cases the whānau are the primary caregivers, and it is the responsibility of health providers/professionals to support the whānau. Health and social service providers/professionals will work together to ensure that the care for the person and their whānau is seamless, and that resources are used efficiently and effectively.

Primary, secondary, and palliative care services work alongside the person and their whānau to decide an appropriate place of care and the support required to implement the advance care plan.

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

Palliative care is provided in different settings, depending on availability and the needs and preferences of the person and their whānau. Settings include:

- in the community/a person's own home
- aged residential care
- hospice care
- hospital care.

Palliative care is most effective when considered early in the course of an illness. Early palliative care not only improves quality of life for the person and their whānau but also reduces unnecessary hospitalisations and use of health care services.

Referral to specialist palliative care services will be appropriate for those with a level of need that exceeds the resources of the generalist palliative care provider. Referral criteria for adult palliative care services in New Zealand are available on the Ministry of Health | Manatū Hauora website.

Clinical trials may improve palliative care and support the management of a person's symptoms of advanced cancer (Cancer Council Australia nd; Cancer Council Victoria nd). The treatment team should support the person and their whānau to participate in research and clinical trials where available and appropriate.

7.3 End-of-life care

The person with advanced cancer may reach a time when active treatment is no longer appropriate, symptoms are increasing, and functional status is declining. Dying is a normal part of every person's life course and every person has the right to die well.

Te Ara Whakapiri: Principles and guidance for the last days of life (Ministry of Health | Manatū Hauora 2017b) defines the essential components (baseline assessment, ongoing assessment, after-death care) and considerations required to provide quality end-of-life care for adults. This covers all care settings, including the home, residential care, hospitals, and hospices.

The multidisciplinary team needs to share the principles of a palliative approach to care when making end-of-life decisions with the person and their whānau. Honest communication is essential to ensure they have time to prepare and appropriate support is in place.

If the person does not already have an advance care plan or advance directive in place, a designated member of the team should encourage them to develop one in collaboration with their whānau.

It is essential for the treatment team to consider the appropriate place of care, the person's preferred place of death, and the support needed for the person and their whānau.

The treatment team should also ensure that whānau receive the information, support, and guidance about their role according to their needs and wishes.

7.4 Assisted dying

The person requesting assisted dying information is supported to access this service. Health providers/professionals are required to be aware of their rights and responsibilities regarding assisted dying services, should the person raise this with the health care team. For more information visit [Assisted Dying Service](#).

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

7.5 Supportive care and communication

An essential component of palliative and end-of-life care is assessing and ensuring the needs of the person and their whānau are met. A number of supportive care needs may arise, including:

- assistance for dealing with emotional and psychological distress from grief and fear of death and dying
- specific support for the person and their whānau where a parent is dying and will leave behind bereaved children or adolescents
- facilitating conversations with the person and their whānau regarding an advance care plan, an advance directive and appointing an EPA
- access to appropriate equipment
- supporting whānau with carer training
- information and education around 'What to expect when someone is dying'
- identifying a key contact person.

7.5.1 Care coordination

Palliative care services must be integrated, responsive and well-coordinated. The person receiving palliative/supportive and end-of-life care may require several different types of care from different services and/or providers. The primary care team/palliative care team assists in coordinating care with the wider health care team. It is important that the different providers and services are aware of and responsive to the various facets of care that the person and their whānau require.

7.5.2 Communicating with the person/whānau receiving care

Health providers/professionals

- Encourage the person and their whānau to designate a lead person(s) to communicate with care providers.
- Encourage discussions about the expected disease course, considering personal and cultural beliefs and expectations.
- Discuss shared goals of care.
- Discuss palliative care options, including community-based services as well as dying at home.
- Empower the person and their whānau to determine the care that they may want to provide, with or without support services.
- Refer the person to palliative care in the community according to their wishes.
- Discuss supportive care options available.

"The difference in his wellbeing after rongoā was huge. He was still dying, but he didn't look sick anymore."

Person/whānau insights

Communicating between health services

Clear communication between all providers/professionals involved in coordinating care is essential. This includes:

- confirming the lead clinician and handover as necessary
- providing updates on the person's prognosis
- initiating supportive and palliative care referrals
- advising on end-of-life care planning.

"Palliative care is a tapu space and requires a careful, holistic approach."

Person/whānau insights

Wellness	Early detection	Presentation, initial investigations, and referral	Diagnosis, staging and treatment planning	Treatment	Care after treatment	Palliative and end of life care
----------	-----------------	--	---	-----------	----------------------	---------------------------------

7.5.3 Palliative care and end of life key national guidelines

- *Advance care planning.* (Te Tahu Hauora | Health Quality & Safety Commission New Zealand. 2022.) hqsc.govt.nz/our-work/advance-care-planning
- *A Guide for Carers.* (Hospice New Zealand 2019). hospice.org.nz
- *Mauri Mate: A Māori palliative care framework* (Hospice New Zealand.2019) hospice.org.nz/mauri-mate
- *Te Ara Whakapiri: Principles and guidance for the last days of life* (Ministry of Health | Manatū Hauora 2017b) health.govt.nz/publication/te-ara-whakapiri-principles-and-guidance-last-days-life
- *The Palliative Care Handbook* (Hospice New Zealand 2019b) hospice.org.nz/resources/palliative-care-handbook
- *Information on assisted dying for the public* (Health New Zealand | Te Whatu Ora, nd) tewhatauora.govt.nz/for-the-health-sector/assisted-dying-service/assisted-dying-information-for-the-public/information-on-assisted-dying-for-the-public

7.6 Measuring and monitoring

Te Aho o Te Kahu Pancreatic Cancer Quality Performance Indicator

- PQI 16. Post-operative mortality: Proportion of people with pancreatic cancer who died within 30 and 90 days of pancreatic resection.
- PQI 17. Overall survival: Proportion of people with pancreatic cancer who survived at one, two, and five years from diagnosis.
- *Ngā Paerewa Pairuri Tāngata | Standards for Palliative Care* (Hospice New Zealand 2019a) **Standards for palliative care.**
 - Standard 1: Assessment of needs.
 - Standard 2: Developing the care plan.
 - Standard 3: Providing the care.
 - Standard 4: Supporting and caring for the family, whānau and carers.
 - Standard 5: Transitions within and between services.
 - Standard 6: Grief support and bereavement care.
 - Standard 7: Culture of the organisation.
 - Standard 8: Quality improvement and research.
 - Standard 9: Staff qualification and training.
- **National palliative care outcomes and reporting framework** (under development).