



Optimal Cancer Care Pathway for people with lung cancer December 2024 | Edition One, version 2 (12/9/25) Citation: Te Aho o Te Kahu. 2024. Optimal cancer care pathway for people with lung cancer. Wellington: Te Aho o Te Kahu.

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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.

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For further information including:

- Achieving Pae Ora, equity and whānau insights
- Person/whānau questions
- Definitions
- Lung 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 lung 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. Lung cancer affects an increasing number of people with more than 2500 diagnosed with lung cancer this year. Around 1900 people will die from lung 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 lung 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,

Rami Rahal

Tumuaki | Chief Executive

Te Aho O Te Kahu | Cancer Control Agency

Summary guide of lung cancer OCCP information

Quick reference guide of condensed lung cancer information

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, highquality 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			
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. 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 • keeping up to date with immunisations or vaccines such as, Human Papilloma Virus (HPV) • avoiding 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 • 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.	Carry out a health and wellbeing assessment including discussions on ways to reduce cancer risk. Assess the individual's risk of developing cancer. Encourage eligible people to participate in national screening programmes. Discuss recent weight changes and monitor weight. Discuss and record alcohol intake. Offer support for reducing alcohol consumption if appropriate. Record person's smoking status and offer stop smoking advice/support if appropriate. Record physical activity. Consider referral to a dietitian, physiotherapist, or exercise programme. Give the person education on being sun smart.			

¹ Optimal Cancer Care Pathway Principles

Step 2: Early detection	Step 2: Checklist			
This step recommends options for early detection for the person with suspected lung cancer.	Assess and discuss the individual's risk of developing cancer.			
Screening of asymptomatic individuals at high risk of lung cancer by low dose CT scan has been predicted to be cost-effective in New Zealand. A	Support the person and their whānau to follow surveillance guidance if they are at an increased risk of familial cancer.			
national programme is undergoing a readiness assessment and planning process at present. Risk algorithms may include age, smoking history,	Refer to clinical genetic services where appropriate.			
ethnicity, and other factors.	 Discuss recent weight changes and monitor weight. 			
Early detection Lung cancer modifiable risks: • anyone who has ever smoked • previous smoking-related cancer e.g., lung, head, neck	 Encourage participation in National Screening Programmes to eligible people. 			
	If signs and symptoms of cancer are present refer to 'Step 3: Presentation, initial investigation and referral' below.			
 Lung cancer non-modifiable risks: increasing age chronic lung disease e.g., chronic obstructive pulmonary disease (COPD), pulmonary fibrosis occupational exposure e.g., asbestos, arsenic, 	Add an alert to the practice management system for regular follow up of people identified as being at high risk for lung cancer.			
polycyclic aromatic hydrocarbons, cadmium,	Communication			
radon, silica, iron and steel founding, nickel, beryllium, chromium VI, paint, diesel exhaust	Ensure the person and their whānau understands:			
long-term exposure to air pollution, indoor	☐ the national screening processes			
 wood burning, 5 or passive smoking family history of lung cancer – familial causes 	when they should receive their results			
 Tainity fistory of tung cancer – familial causes are rare in lung cancer, and close relative testing is not usually needed assess family history of cancer as part of a routine wellness check. 	how to follow up if they do not receive their results			
	what is involved if they need to be transferred to a specialist service.			

Step 3: Presentation, initial **Step 3: Checklist** investigations, and referral This step outlines how to initiate the appropriate Record signs and symptoms. investigations and referrals to specialist/s in a Complete all cancer assessments. timely manner for the person with suspected lung ☐ Inform the person and their whānau of cancer. preliminary results. The types of investigations undertaken will depend Discuss referral options of cancer care are on many factors, including access to diagnostic discussed with the person and their whanau, investigations, the availability of medical including cost implications if private provider specialists and including preferences. requested. A person and their whānau may present via Complete and record supportive care needs primary care, an emergency presentation or assessment, refer to allied health services as incidental finding with a high suspicion of lung required. cancer.

☐ Inform the person and their whānau of The following symptoms of lung cancer include: cultural services and relevant support groups unexplained or persistent haemoptysis available. • unexplained or persistent cough for more than three weeks Initiate referrals and arrange further · shortness of breath investigation. · chest or shoulder pain or both **Timeframe** hoarse voice – due to recurrent laryngeal nerve compression. ☐ If there is a high suspicion of lung cancer, submit referral immediately to hospital The following signs of lung cancer include: specialist services. • Deep Vein Thrombosis (DVT) persistent pleural effusion, localized wheeze, High suspicion of cancer referral is triaged recurrent or unresolved chest infections within 1-2 working days and referrer is finger clubbing notified. • cervical and/or supraclavicular Confirm that the person referred urgently lymphadenopathy with a high suspicion of cancer will attend • Horner's syndrome. their first specialist assessment (FSA) clinic within two weeks. Lung cancer assessment includes the relevant: • medical history: relevant onset duration. Communication changes in respiratory symptoms, new or Explain to person and their whanau that they changed cough; hoarseness; shortness of are being referred to a hospital specialist breath fatigue; loss of appetite; weight loss, service and why, including: chest, or shoulder pain; medications • how long this may take • physical examination: Eastern Cooperative • who to contact if their symptoms change Oncology Group (ECOG) Performance Status Scale, frailty assessment, weight, blood • how to follow up if they do not receive pressure, oxygen saturation, finger clubbing their specialist appointment within the • radiology: urgent chest x-ray, CT scan, specified time. spirometry (if available) • laboratory: full blood count, calcium, liver function tests, electrolytes and creatinine, corrected calcium, C-reactive protein, and coagulation studies • family/whānau history: lung cancer or any other cancer social history: smoking, environmental or occupational exposures to known carcinogens. Referral A clinical suspicion or laboratory/imaging findings suggestive of cancer require further investigation and a referral to hospital specialist services as outlined in the Community HealthPathways. If the person presents with one of the following red flags, the referral should be triaged as a high suspicion of cancer: • Chest x-ray or other imaging suggestive/suspicious of lung cancer (including new pleural effusion, pleural mass, and slowly resolving consolidation) • unexplained or persistent haemoptysis in high-risk individuals over 40 years of age.

Step 4: Diagnosis, staging and Step 4: Checklist treatment planning All people with a high suspicion of cancer This step outlines the process for confirming the have a person to coordinate care. diagnosis and stage of cancer and the planning of subsequent treatment. Confirm diagnosis. **Diagnosis** for lung cancer may include: Referral to a cancer care coordinator. Radiology: Record staging, performance status and chest x-ray comorbidities. CT chest scan (prior to bronchoscopy) Discuss the person's diagnosis at a • PET-CT scan when curative treatment is being multidisciplinary meeting (MDM) and inform considered as per national clinical criteria the person and their whanau of the treatment (2024)decision. • CT and other image guided biopsies Consider enrolment in clinical trial. • MRI brain in certain circumstances Consider fertility consequences with Laboratory: treatment and refer to fertility specialist as blood tests required. general laboratory tests Immuno-molecular testing – reflex EGFR, ALK, Assess supportive care needs and refer to allied health services as required. PDL1 Ensure primary or secondary prehabilitation Pathology: to optimise overall well-being is initiated. cytology histology Referral to lung cancer specific support bronchoscopy – biopsy services as required. · cardiopulmonary tests Begin Enhanced Recovery After Surgery (ERAS) protocol if for surgery. Spirometry: Community or hospital Give the person and their whanau information on Cancer Society, Lung Staging: Foundation and/or relevant cultural services surgery: biopsy and support groups available. radiology: CT scan chest and upper abdomen, **Timeframe** PET-CT scan when curative treatment is being If required, an MDM should occur within two weeks considered; MRI brain in stage 2 or 3 of the suspected or confirmed diagnosis. considered for multi-modality treatment Communication including chemo-radiotherapy Laboratory tests. The lead clinician and team are responsible for: Familial cancer risk discussing a timeframe for diagnosis and treatment options with person and their Familial causes of lung cancer are rare and close whānau relative testing is not usually needed. explaining the role of the MDM team in Treatment planning treatment planning and ongoing care Optimal cancer care requires a multidisciplinary encouraging discussion about the diagnosis, approach to ensure treatment plans are tailored to prognosis, advance care planning and an individual's needs in collaboration with the palliative care while clarifying wishes, needs, whānau and health care team. beliefs, and expectations of the person and their whānau and their ability to comprehend the communication providing appropriate information and referral to support services as required

	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
This step describes publicly funded optimal treatments for lung cancer by trained and experienced clinicians and team members, in an	Health providers/professional, treating specialist has relevant qualifications, experience, and expertise.
appropriate environment. Establish the intent of treatment: • curative – to cure the cancer completely	Discuss the intent of treatment and the risks and benefits with the person and their whānau.
 tumour control – to stop the cancer growing and spreading 	Provide the agreed treatment plan with the person, their whānau and GP.
 palliative – to manage symptoms caused by the cancer. 	 Assess supportive care needs and refer to allied health services as required.
Treatment options Surgery – may be used to stage the cancer for: • those with early-stage NSCLC who are fit for the required surgery.	Give the person and their whānau information on available cancer nongovernmental organisations (NGOs) cultural services and support groups.
 those who require surgical diagnosis or palliation. 	Consider early referral to palliative care if appropriate.
Systemic therapy – people who may benefit from systemic therapy includes those with:	 Discuss advanced care planning with the person and their whānau.
advanced disease but good performance status	Timeframes
 NSCLC and may have neoadjuvant or adjuvant therapy in conjunction with complete resection of locoregional disease inoperable localised NSCLC who are suitable for combined modality definitive 	The person referred urgently with a high suspicion of lung cancer receives their first cancer treatment within 62-days from date of referral.
 chemoradiation SCLC, as these are highly chemo-sensitive targeted therapies and immunotherapy - for 	The person with a confirmed diagnosis of lung cancer receives their first treatment within 31-days of the decision to treat.
NSCLC. Radiation therapy – people who may benefit from	Time to surgery, if required after neoadjuvant radiation therapy, depends on the regimen.
 radiation therapy includes those who: have early-stage (I-II) NSCLC and where the balance of risks and benefits favours radiotherapy rather than surgery. have locally advanced (III) NSCLC that is 	The person with non-metastatic lung cancer is presented in the lung cancer MDM within 3 weeks after surgery for consideration of adjuvant therapy.
inoperable.have limited-stage (I-III) SCLC and are having	Radiation therapy should start within 4 weeks of the MDM.
combined modality treatment with chemotherapy.may benefit from prophylactic cranial	Adjuvant chemotherapy should begin within 4 weeks of surgery.
irradiationselected people with oligometastatic lung	Communication
 selected people with oligometastatic tung cancer radiation therapy modalities include stereotactic radiation therapy (eviQ 2019a) 	The lead clinician and team are responsible for discussing these areas with the person and their whānau:

halitosis, hoarseness, and haemoptysis nutritional support fatigue.	Palliative care – Early referral and access to palliative care is a critical aspect of best practice and is recommended to help manage: • management of physical symptoms such as pain, cough, breathlessness,	ance care planning ons for healthy lifestyle support to rove treatment outcomes such as exercise nutrition.
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Step 6: Care after treatment Step 6: Checklist The person and their whānau access appropriate Provide a survivorship plan that includes a follow up and surveillance and are supported to summary of the treatment and follow-up care achieve their optimal health after cancer plan to the person, whanau and their GP. treatment. Assess supportive care needs and refer to Provide a summary of the treatment and follow-up allied health services as required. care plan to the person, their whānau and their GP Give the person and their whanau outlining: information on the Cancer Society and/or diagnosis, including tests performed and relevant cultural services and support groups results available. treatment received (types and date) Communication • current toxicities (severity, management and expected outcomes) The lead clinician and team are responsible for: • interventions and treatment plans from other explaining the treatment summary and follow health providers/professionals up and surveillance care plan to the person potential long-term and latent effects of and their whānau. treatment and care of these • supportive care services provided informing the person and their whānau about • a follow-up schedule, including tests required secondary prevention and healthy living and timing discussing the follow-up care plan with the • contact information for key health care GP of the person and their whanau providers/ professionals who can offer support for lifestyle modification providing guidance for rapid re-entry to • a process for rapid re-entry to medical services specialist services. for suspected recurrence · ongoing assessments of the effects of treatment.

Step 7: Palliative and end-of-life care	Step 7: Checklist
Palliative and end-of-life care provides the person facing life-limiting conditions with holistic support and coordinated services based on their specific needs.	required.
Palliative care may be provided through:	

Make sure the person and their whānau are hospital palliative care aware of the prognosis and what to expect · home and community-based care when someone is dying. • community nursing, including access to appropriate equipment. Discuss activation of advance care plan, directive, or enduring power of attorney. Early referral, identification, correct assessment, and treatment of pain and other symptoms prevent and relieves suffering. End-of-life care should consider: • appropriate place of care · person's preferred place of death • support needed for the person and their whānau. Awareness of and access to, assisted dying services should be available if the person and their whanau raise this with the health care team. Communication A key way to support the person and their whanau is by coordinating ongoing, clear communications between all health providers/professionals involved in providing cancer care.

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).

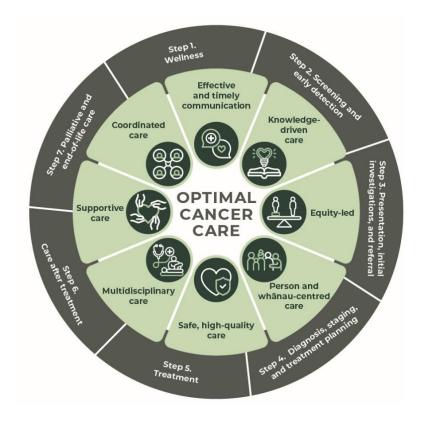
OCCPs are a framework for achieving health equity² in cancer control using a person and whānau centred approach to provide people with equitable, high-quality care, regardless of where they live or receive cancer treatment. OCCPs help to:

- 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 <u>Figure 1</u>, 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



³ Optimal 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.

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 lung cancer, the person and their whānau are referred to diagnostic services within 2 weeks for urgent investigation.		
	Referral to a hospital specialist	The person should see a specialist within 2 weeks for a high suspicion.		
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 lung cancer and triaged by a clinician will receive their first cancer treatment within 62-days.		
Step 5: Treatment	Neoadjuvant/ adjuvant chemotherapy, radiation	The person begins their first cancer treatment within 31-days of the decision to treat, regardless of how they were initially referred.		
	therapy or surgery	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: Screening and 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 2022 there were 2517 lung cancer registrations in Aotearoa New Zealand with 1856 deaths attributed to lung cancer. The rate of lung cancer registration is relatively stable, and the mortality rate is reducing over time. Lung cancer is the most significant cancer for Māori in terms of mortality (Te Aho o Te Kahu 2021a). Māori had the lowest overall survival of all ethnic groups, with 37.7% alive one year after diagnosis, 21.6% two years after diagnosis and 17.5% three years after diagnosis (Te Aho o Te Kahu 2021). The five-year relative survival for lung cancer over the years 1994–2003 for Māori was poor (5.4%) compared with that for non-Māori (11%) (Te Aho o Te Kahu 2021). Survival rates were lower in Māori, males and people living in areas of high socio-economic deprivation (BPAC 2021).

Overall curative surgical resection rates in NZ are lower than rates found in other OECD countries, with Māori and Pacific having the lowest rate compared with other ethnicities (Te Aho o Te Kahu 2021). Māori are also more likely to be diagnosed with lung cancer via an emergency department presentation (Te Aho o Te Kahu, 2024). Variation is currently seen across the country in relation to treatment modalities given, with access to systemic anticancer therapy for non-small cell lung cancer variable across districts (Te Aho o Te Kahu 2021).



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 in national screening participation rates for existing cancer screening programmes

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
- avoiding 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).

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

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.
 - o Health status and behaviours.
 - Risk factors.
 - Access to health care.

Step 2: Early detection

This step outlines recommendations for screening and early detection for the person with suspected lung cancer.

2.1 Te Tiriti o Waitangi

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

- early detection of lung cancer initiatives such as lung health checks are 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 screening and early detection programmes, where possible (Te Aho o Te Kahu 2022)
- implementing programmes that enhance access to early detection of lung cancer and opportunistic screening of other cancers.

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 screening programme for lung cancer.

Screening of asymptomatic individuals at high risk of lung cancer by low dose CT scan has been predicted to be cost-effective in New Zealand. A national programme is undergoing a readiness assessment and planning process at present. Risk algorithms may include age, smoking history, ethnicity, and other factors.

Te Oranga Pukahukahu research group is undertaking multiple research studies to inform a national lung cancer screening program.

Early detection focuses on identifying cancer as early as possible and has several benefits, including improved survivorship.

Due to the benefits of early detection, lung cancer should always be considered in the person/ whānau who have any signs or symptoms of lung cancer that are unexplained and/or persistent (lasting more than three weeks). Even if there is a likely explanation for the persons symptoms, e.g. recent upper respiratory tract infection, consider whether investigation with chest x-ray is indicated based on risk factors for lung cancer (BPAC 2021) **bpac.org.nz/2021/lung-cancer.aspx.**

The National Early Detection of Lung Cancer (EDOLC) Guidance 2017 provides high level guidance for the early detection of lung cancer to improve survival rates for New Zealanders with lung cancer (Note: Guidance has not been updated). The Guidance includes a summary of national and international **EDOLC initiatives**.

For lung cancer, the most important modifiable risk factor is smoking or exposure to secondhand smoke.

Wellness Early detection Presentation, initial Diagnosis, staging Care after palliative and end investigations, and and treatment Treatment treatment of life care

Identify and add an alert to the practice management system for people at high risk of lung cancer, ensuring they are asked regularly about their respiratory health and undergo an annual respiratory assessment. This will increase the likelihood of detecting potential lung cancer earlier. An assessment includes primary care referral for chest x-ray if they have any symptoms suggestive of lung cancer and:

- the person has not had a chest x-ray in the previous 12 months, or
- the person presents with new symptoms.

A request for a non-acute respiratory assessment is marked with a high suspicion of cancer and urgent. The respiratory team will organise the appropriate secondary care investigations and first specialist appointment on the same day where possible.

Incidental finding of pulmonary nodules.

The management of indeterminate pulmonary nodules detected incidentally on CT scan should be in line with the following international guidance:

• Fleischner Society pulmonary nodule recommendations, 2017.

British Thoracic Society (BTS) Guidelines for the *Investigation and Management of Pulmonary Nodules*, 2015.

2.3 Lung cancer risk factors⁴

2.3.1 Modifiable risk factors

- anyone who has ever smoked
- previous smoking-related cancer e.g., lung, head, neck
- chronic lung disease e.g., chronic obstructive pulmonary disease (COPD), pulmonary fibrosis

2.3.2 Non-modifiable risk factors

- increasing age.
- family history of lung cancer however familial causes are rare in lung cancer
- occupational exposure e.g., asbestos, arsenic, polycyclic aromatic hydrocarbons, silica, iron and steel founding, nickel, beryllium, chromium VI, paint, diesel exhaust
- long-term exposure to air pollution, indoor wood burning, or passive smoking.

2.3.3 Familial cancer risk

Familial causes of lung cancer are rare and close relative testing is not usually needed. For further information visit the Genetic Health Service New Zealand website: (genetichealthservice.org.nz).

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 investigation or results and follow up care as required.

"We wentas a group...we could awhi each other". "Education and at marae would be good."

Person/whānau insights

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⁴ IARC, 2025

• 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.

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.

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 lung 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: <u>National Community Referral Criteria for Imaging » Radiology</u>.

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 lung cancer should be seen by a general practitioner **within 2 weeks.**

Practice point

There should be a low threshold for suspicion of lung cancer, particularly in Māori, as early detection increases the persons chance of survival.

The person is assessed for signs and symptoms of lung 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 and should be further assessed.

A person with <u>haemoptysis</u> and one or more unexplained symptoms, signs, or conditions, should have a high suspicion of cancer referral from primary care for chest x-ray or chest CT (where available).

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.

The following symptoms of lung cancer include:

- unexplained or persistent haemoptysis
- unexplained or persistent cough for more than three weeks
- shortness of breath
- chest or shoulder pain or both
- hoarse voice due to recurrent laryngeal nerve compression.

The following signs of lung cancer include:

- Deep Vein Thrombosis (DVT)
- persistent pleural effusion, localized wheeze, recurrent or unresolved chest infections
- finger clubbing
- cervical and/or supraclavicular lymphadenopathy
- · Horner's syndrome.

If any red flags arrange hospital admission:

- if large life-threatening haemoptysis, stridor, or respiratory distress, arrange acute emergency department assessment
- if superior vena cava obstruction, request acute general medicine assessment
- if spinal cord compression, request acute orthopaedic assessment or acute general surgery assessment.

3.3 Assessment

Lung cancer assessment includes relevant:

- medical history: including relevant onset duration, changes in respiratory symptoms, new or changed cough; hoarseness; shortness of breath fatigue; loss of appetite; weight loss, chest, or shoulder pain; medications
- physical examination: Eastern Cooperative Oncology Group (ECOG) Performance Status Scale, frailty assessment, weight, blood pressure, oxygen saturation, finger clubbing
- investigations including:
 - o radiology: urgent chest x-ray and/or CT scan, spirometry (if available)
 - o laboratory: full blood count, calcium, liver function tests, electrolytes and creatinine, corrected calcium, C-reactive protein, coagulation studies
- family/whānau history: lung cancer or any other cancer
- person/whānau social history: smoking, environmental or occupational exposures to known carcinogens.

3.4 Initiate investigations, including referrals

- Chest x-ray, chest CT or other imaging suggestive/suspicious of lung cancer (including new pleural effusion, pleural mass, and slowly resolving consolidation).
- Indicate if there is a high suspicion of cancer and/or it is urgent, and the person needs to be seen within two weeks.
- Make sure a referral receipt is obtained by the referring provider.

If high suspicion of cancer criteria is met, and the person/whānau is suitable for potentially curative treatment, direct access to a specialist respiratory clinic is prioritised and/or multispecialty access clinic.

Timeframe for completing investigations for the person with suspected lung cancer

Optimally, investigations should be completed within 2 weeks.

High suspicion of cancer referral options are clearly communicated with the person and their whānau, including details of expected timeframes, who to contact if they do not 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:
 - o transport
 - o financial
 - o family situation that may impact on the decision to consent to a procedure
 - o 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 and/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 lung 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).

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 (FCT data dictionary).

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 to deal 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/professionals

- 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 whanau 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.

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.

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

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- 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.

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.

- Te Aho o Te Kahu Lung Cancer Quality Performance Indicators
 - LCQI 1. Route to diagnosis: Proportion of people with lung cancer who are diagnosed following a referral to a clinic or presentation to an emergency department, by stage (measured nationally but without stage) (Te Aho o Te Kahu, 2021).
- 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.

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 lung cancer)

Where possible the diagnosis of cancer is established or confirmed before treatment is planned. The specialist, either before or after taking a medical history and making a medical examination of the person, may request additional investigations. This may be before or after the first specialist appointment and include:

Radiology

- chest x-ray
- CT scan (prior to bronchoscopy)
- PET-CT scan when curative treatment is being considered as per national clinical criteria (2024)
- CT and other image guided biopsies
- MRI brain in certain circumstances

Laboratory

- blood tests
- general laboratory tests
- coagulation studies if haemoptysis present
- Immuno-molecular testing

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Pathology

- cytology
- histology
- bronchoscopy biopsy
- cardiopulmonary tests

Spirometry

• community or hospital.

Note: It is important to ensure there is sufficient tissue retrieved for testing purposes.

Timeframe for completing investigations

Diagnostic investigations should be completed within two 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:

Surgery

biopsy

Radiology

- CT scan chest and upper abdomen
- PET-CT scan when curative treatment is being considered
- MRI brain in stage 2 or 3 considered for multi-modality treatment including chemoradiotherapy
- EBUS biopsy

Laboratory tests

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). Presentation, initial Diagnosis, staging and treatment Treatment Treatment Treatment Treatment of life care

4.5 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 lung 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, comorbidities, 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 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).

4.5.1 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.

4.5.2 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 investigations, and referral planning and treatment planning referral plannin

4.5.3 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 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.

4.5.4 Clinical trials

Where eligible, the person with cancer and their whānau are 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.

4.6 Supportive care and communication

4.6.1 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 to Principle 6).

4.6.2 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
- health information and education needs are met (refer to Step 3.5).

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4.6.3 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 whanau 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.

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.

4.7 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 Quality Performance Indicator:
 - Route to diagnosis: Proportion of people who are diagnosed with cancer following presentation (admission) to an emergency department (Te Aho o Te Kahu, 2024).
- Te Aho o Te Kahu Lung Cancer Quality Performance Indicators
 - LCQI 3. Pathological diagnosis: Proportion of people who have a pathological diagnosis of lung cancer.

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

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• 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.
- o **62-day Indicator** If a person does not attend MDM within 28 days, they are unlikely to meet the 62-day pathway.

• MDM Standards

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).

Step 5: Treatment

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

Further information can be found in the guidelines listed below:

- European Society for Medical Oncology: ESMO clinical practice guidelines: lung and chest tumours esmo.org/Guidelines/Lung-and-Chest-Tumours
- Systemic Anticancer Therapy protocols for lung cancer (<u>ACT-NOW</u>), Te Aho o Te Kahu)
- eviQ: Lung cancer eviq.org.au
- Radiotherapy Dose Fractionation fourth edition, The Royal College of Radiologists UK rcr.ac.uk
- Fleischner Society pulmonary nodule recommendations, 2017 (currently being reviewed) <u>radiopaedia.org/articles/fleischner-society-pulmonary-nodule-</u> recommendations-1
- British Thoracic Society (BTS) Guidelines for the Investigation and Management of Pulmonary Nodules, 2015 thorax.bmj.com/content/70/Suppl_2/ii1.

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 (refer 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

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- 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.

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 lung 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:
 - o those with early-stage NSCLC who are fit for the required surgery.
 - o those who require surgical diagnosis or palliation.
- 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, New Zealand (Te Aho o Te Kahu 2024).

A number of people may benefit from systemic therapy:

- those with advanced disease and good performance status
- o the person with NSCLC having neoadjuvant or adjuvant therapy in conjunction with complete resection of loco-regional disease

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- the person with inoperable localised NSCLC who are suitable for combined modality definitive chemoradiation
- o the person with SCLC as these are highly chemotherapy sensitive
- o therapies and immunotherapy for NSCLC.

Radiation therapy:

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

- people who have early-stage (I-II) NSCLC and where the balance of risks and benefits favours radiotherapy rather than surgery
- o people with locally advanced (III) NSCLC that is inoperable
- those who have limited-stage (I-III) SCLC and are having combined modality treatment with chemotherapy or may benefit from prophylactic cranial irradiation
- o selected people with oligometastatic lung cancer
- radiation therapy modalities include stereotactic radiation therapy (eviQ 2019a)
- palliative intent radiation therapy may benefit the person with NSCLC or SCLC for palliation of the chest and extra thoracic symptoms.

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.

Timeframes for starting treatment

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 four weeks after their surgery.

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.

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

- management of physical symptoms such as pain, fatigue, cough, breathlessness, halitosis, hoarseness, and haemoptysis
- nutritional support
- peripheral neuropathy
- fatigue.

5.3.1 Clinical Trials

The person and their whānau are 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).

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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 lung 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
- 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.

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The person and their whanau 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 whanau 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.

• Te Aho o Te Kahu Lung Cancer Quality Performance Indicators

- LCQI 8. Radiation therapy: Proportion of people with lung cancer receiving concurrent chemoradiation, by stage, ECOG performance status, intent, and type of lung cancer (NSCLC/SCLC) (measured nationally but without stage and ECOG status).
- LCQI 9. Treatment mortality: Proportion of people with lung cancer who died within 30 or 90 days of treatment with curative intent (surgery, SACT, radiation therapy), by type (NSCLC/SCLC) and stage (measured nationally but without stage).

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

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 people 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.

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

⁵ Radiation Oncology Waitlist Data Business Rules – <u>Te Whatu Ora</u>

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).

The following references inform care after treatment for the person with lung cancer:

- Follow up and supportive care of people with lung cancer after curative-intent therapy, National Lung Cancer Working Group, 2019. **Guideline here**.
- Lung cancer follow up and surveillance: the role of primary care, **BPAC**.
- The Cancer Survivorship in New Zealand Consensus Statement

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 should 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

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- information about wellbeing with 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.

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.

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 lung cancer, assessment for referral to the following rehabilitation or recovery services should be undertaken:

- psycho-social support
- pulmonary rehabilitation programme
- nutritional support
- exercise programmes
- whānau ora programmes.

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

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- monitoring and management of complications
- optimisation of rehabilitation
- provision of support to the person and their whānau.

In both NSCLC and SCLC, most recurrences are diagnosed in the first two years following curative treatment. More intense follow-up schedules do not result in overall increase in survival time.

- Initial follow-up clinic appointment by treating specialist should be at **6 weeks** post treatment to assess for complications and if there are unresolved complications, a second appointment at **3 months** post-treatment.
- The person will undergo a chest X-ray at **3 months** post-treatment, reviewed by the treating specialist.
- Additional imaging (repeat chest X-ray or referral for chest CT) should be requested based on symptoms and signs, but in some instances may be requested by the specialist as part of routine surveillance.

Care after treatment is driven by predicted risks and 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 has been received, and the needs and wishes of the person and their whānau. 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.

People with new symptoms or signs of lung cancer should have prompt access to appropriate imaging or respiratory specialist.

Lung cancer signs and symptoms that necessitate further investigation include:

- · persistent cough
- coughing up blood
- wheezing, difficulty breathing, shortness of breath
- dizziness and visual disturbances
- · weight loss.
- chronic fatigue.

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 and their whānau are 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.

Wellness

Early detection

Presentation, initial investigations, and referral

Diagnosis, staging and treatment

Treatment

Care after

Palliative and end of life care

6.8 Supportive care, care coordination and communication

As the person and their whānau transition from active treatment, their needs often change, and health providers need to support people and their whānau 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:

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

insiahts

supportive care

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

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 Lung Cancer Quality Performance Indicators
 - LCQI 10. Overall survival: Overall survival for people with lung cancer at 1, 2 and 3 years from diagnosis, by type (NSCLC/SCLC) (measured nationally, but without stage).

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.

| Presentation, initial | Diagnosis, staging | Care after | Palliative and end | referral | planning | Palliative and end | Of life care | Of life car

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 <u>Ministry of Health</u> | 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 whanau 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 are 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: health.govt.nz/our-work/regulation-health-and-disability-system/assisted-dying-service.

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 whanau are met. Supportive care needs that may arise, include:

- assistance for dealing with emotional and psychological distress from grief and fear of death and dying
- specific support for the person and their whanau 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 whanau require.

7.5.2 Communicating with the person/whānau receiving care

Health providers/professionals

- Encourage the person and their whanau 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 whanau 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.

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.

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

insights

"Palliative care is a tapu space and requires a careful, holistic approach." Person/whānau insights

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7.5.4 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
- A Guide For Carers. (Hospice New Zealand 2019).
- Mauri Mate: A Māori palliative care framework (Hospice New Zealand.2019)
- Te Ara Whakapiri: Principles and guidance for the last days of life (Ministry of Health | Manatū Hauora 2017b)
- The Palliative Care Handbook (Hospice New Zealand 2019b)

Information on assisted dying for the public (Health New Zealand | Te Whatu Ora, nd)

7.6 Measuring and monitoring

- Ngā Paerewa Pairuri Tāngata | Standards for Palliative Care (Hospice New Zealand 2019a) <u>Standards for palliative care</u>.
 - o Standard 1: Assessment of needs.
 - Standard 2: Developing the care plan.
 - o Standard 3: Providing the care.
 - o Standard 4: Supporting and caring for the family, whanau and carers.
 - Standard 5: Transitions within and between services.
 - Standard 6: Grief support and bereavement care.
 - Standard 7: Culture of the organisation.
 - o Standard 8: Quality improvement and research.
 - o Standard 9: Staff qualification and training.
- National palliative care outcomes and reporting framework (under development).