The Future of Allied Health Leadership in New Zealand-Aotearoa: A Literature Review

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Abstract

Background:
The allied health, scientific and technical (allied health) workforce is the second largest workforce in New Zealand, providing diagnostic, therapeutic and preventative services. Increasingly consumers present with complex conditions requiring multiprofessional integrated services and a legacy of profession-focused leadership development is being challenged. [1] Future health and disability systems require leaders prepared to lead complex services, less focussed on their professional background and more on understanding their interprofessional services. [2, 3] The Allied health workforce is well placed to lead these systems, providing interprofessional experience, a biopsychosocial lens and collaborative models of practice.

Aim:
To provide an understanding of the literature and research available that addresses the leadership of healthcare services by allied health clinicians.

Methodology:
An initial database review was completed using a systematic approach, across CINAHL complete; EBSCO Business; Medline; and EBSCO Health databases from March 2020 to September 2020. An expanded search used Google Scholar and NZ, UK and Australian based government websites to access institutional documents, such as policies, reviews and reports.

Results:
The review identified an emerging pool of research on allied health leadership in Australia and the UK but a paucity of literature on allied health leadership in New Zealand. Three themes were identified and explored within the article: health leadership frameworks, current state and barriers and enablers identified.

Conclusions:
Literature advocates for a broader scope of clinicians into strategic leadership roles. Despite evidence of strategic allied health roles in New Zealand there remains a dearth of literature on allied health leadership. To foster and sustain the development of allied health leaders in New Zealand it is important to understand the enablers that impact this process.

Keywords

allied health, leadership, health system, disability, New Zealand, Aotearoa
INTRODUCTION

Healthcare is known for its complexity, its workforce diversity and ongoing financial challenges. It also continually presents more adaptive requirements than we can implement solutions to resolve. A health workforce looks to the health and disability system leadership to provide vision, direction and clarity. [1-3] Establishing effective leadership in healthcare across services, systems and the workforce, is key to supporting the provision of high-quality treatment, optimal results and the ongoing development of consumer-focused services. [1, 4-6] As healthcare continues to evolve in response to population diversity, digital technology development and health need, it is suggested the recruitment of the most effective leadership possible is a logical objective.

New Zealand’s allied health, scientific and technical collective of professions is a significant proportion of the health workforce. According to district health boards (DHBs) New Zealand [8] the employed workforce number 12,683. This compares with 5,781 Senior Medical Officers and 30,355 Nurses. Allied Health Aotearoa New Zealand [9] report that the allied health collective across both public and private sectors comprise more than 30,000 clinical professionals across 50 different professions, providing diagnostic, preventative and rehabilitative services. This makes allied health the second largest workforce in public health in New Zealand.

This article presents a review of the literature addressing leadership by allied health clinicians within the context of health and disability services internationally, regionally and locally in New Zealand. The themes identified include, health leadership frameworks, current state and the barriers and enablers to allied health leadership.

METHODOLOGY

A narrative literature review using a systematic approach to searching was undertaken to identify relevant literature on healthcare services leadership by allied health clinicians, seeking to gain an overview of the current state of research and empirical evidence available. [7] The search utilised electronic databases between March 2020 to September 2020, specifically; CINAHL Complete (Cumulative Index to Nursing and Allied Health Literature), EBSCO Business; Medline; and EBSCO Health databases. Search terms used were, health*, lead*, manage*, (multi-professional or multidisciplinary), and (NZ, New Zealand or Aotearoa). Terms were used in combination and with the ‘AND’ Boolean. Database searches were initially limited to English-only citations published after 2013 to ensure relevancy and utilise the most recent research available. Peer-reviewed literature that addressed leadership methods, processes, case studies, frameworks and theory development were included. Conference papers, books and book chapters on allied health leadership were excluded, as were papers focused on disciplines whose context of practice was external to the public health and disability system, such as sports training or coaching. Due to a lack of research literature available using these parameters, key papers prior to 2013 were included and Google Scholar and NZ, UK and Australian based government websites provided access to relevant institutional documents, such as policies, reviews and reports.

EndnoteX9 software was used to manage the exclusion of duplicates and refine management of the references by keyword tagging and categorisation. Microsoft Excel provided the platform for data synthesis, utilising the headings of author, theme, year, title, topic, methodology, findings, argument, and limitations to find emergent themes, commonalities and differences. The use of coding and identifying direct quotes enabled the researcher to synthesise the literature available according to their outcomes or perspectives. This supported the development of the key thematic areas addressed within existing evidence and an overall understanding of the current context of allied health leadership. The total number of articles found n = 21 are summarised in Table 1.
# TABLE 1. A SUMMARY OF THE LITERATURE

<table>
<thead>
<tr>
<th>AUTHOR</th>
<th>YEAR</th>
<th>COUNTRY</th>
<th>TITLE</th>
<th>TOPIC</th>
<th>FINDINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boyce R et al.</td>
<td>2017</td>
<td>Australia</td>
<td>Allied Health Leaders: Australian Public Health Boards and Top Management Teams</td>
<td>Overview of allied health leadership positioning</td>
<td>AH is underrepresented on Top Management Teams. AH only make up a quarter of the board positions.</td>
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<tr>
<td>Bradd T et al.</td>
<td>2018</td>
<td>Australia</td>
<td>AH Leadership in NSW: a study of perceptions and priorities of AH leaders</td>
<td>Views and perceptions of AH leadership</td>
<td>Identified need to build and grow influence, demonstrate AH contribution, focus efforts on governance, performance, standards and advocacy. To increase scope of AH directors and across profession leaders.</td>
</tr>
<tr>
<td>Edmonstone, John</td>
<td>2013</td>
<td>England</td>
<td>What is wrong with NHS leadership development?</td>
<td>Leader development vs leadership development</td>
<td>Principles outlined for leadership development</td>
</tr>
<tr>
<td>Forsyth and Mason</td>
<td>2017</td>
<td>England</td>
<td>Shared leadership and group identification in healthcare: the leadership beliefs of clinicians working in interprofessional teams</td>
<td>The leadership beliefs of clinicians in interprofessional teams - are they associated with professional or team identities.</td>
<td>No difference between professions about beliefs in shared leadership. Group identification link to clinician's leadership beliefs.</td>
</tr>
<tr>
<td>Fry K</td>
<td>2010</td>
<td>New Zealand</td>
<td>Social Work clinical leadership in allied health</td>
<td>Clinical leadership in social work in allied health in NZ</td>
<td>There are challenges and opportunities to use and develop skills and knowledge and practice to provide ah with unity and direction</td>
</tr>
<tr>
<td>Garman et al.</td>
<td>2019</td>
<td>USA</td>
<td>Bridging Worldviews: Toward a common model of leadership across the health professions.</td>
<td>Revising and validating an interprofessional leadership competency model</td>
<td>Competencies all met the criteria for validity, 85% of the competencies also mapped to 5 other professional leadership models. Revised model is able to provide a common language framework for interdisciplinary leadership development</td>
</tr>
<tr>
<td>Gifford et al.</td>
<td>2018</td>
<td>Canada</td>
<td>Managerial leadership for research use in nursing and allied health care professions: a systematic review</td>
<td>The association between leadership behaviours and nurse and AHPs use of research</td>
<td>Managers performed a diverse range of leadership behaviours - change oriented, relation oriented, and task oriented. Most common was support for the change.</td>
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<td>Author(s)</td>
<td>Year</td>
<td>Location</td>
<td>Title</td>
<td>Summary</td>
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<tr>
<td>Gordon et al.</td>
<td>2015</td>
<td>UK</td>
<td>Dimensions, discourses and differences: trainees conceptualising health care leadership and followership</td>
<td>What does leadership and followership mean to medical trainees working in today’s interprofessional health care workplace dominance of individualistic discourse (hierarchy, personality and individual behaviours), context heavily influenced trainee’s conceptualisations.</td>
<td></td>
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<tr>
<td>Marinelle-Poole et al.</td>
<td>2011</td>
<td>New Zealand</td>
<td>New Zealand Health Leadership</td>
<td>The comparison of two different approaches to leadership development used in District Health Boards Two distinct models of approach - no quantifiable outcomes demonstrated.</td>
<td></td>
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<tr>
<td>Markham D</td>
<td>2015</td>
<td>Australia</td>
<td>Allied Health: leaders in health care reform</td>
<td>The potential for allied health workforce to demonstrate leadership in healthcare reform Health care challenges can be met by allied health workforce actively and effectively.</td>
<td></td>
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<tr>
<td>McGowan et al.</td>
<td>2018</td>
<td>Ireland</td>
<td>Leadership capabilities of physiotherapy leaders in Ireland: Part 2. Clinical Specialists and Advanced Physiotherapy Practitioners</td>
<td>Do Clinical Specialists and Advanced Physiotherapy Practitioners identify with leadership capability Sample identified capabilities associated with all four domains. Predominance of skills in the human resource frame. Less in political and symbolic frames - same as physio managers</td>
<td></td>
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<tr>
<td>McGowan et al.</td>
<td>2018</td>
<td>Ireland</td>
<td>Leadership capabilities of physiotherapy leaders in Ireland: Part 1. Physiotherapy Managers</td>
<td>Do Physio managers identify with leadership capabilities across the four domains of the Bolman and Deal framework Sample identified capabilities associated with all four domains. Predominance of skills in the structural and human resource frames. Symbolic frame was underused, fewer examples evidencing communication of vision, demonstrating passion and facilitating positive workforce culture.</td>
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<tr>
<td>McGrath et al.</td>
<td>2019</td>
<td>USA</td>
<td>International interprofessional leadership in International interprofessional leadership in Description of interprofessional training programme,</td>
<td>Self-reported outcomes and in-depth focus on self, team and wider community</td>
<td></td>
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<tr>
<td>Authors</td>
<td>Year</td>
<td>Country</td>
<td>Research Question</td>
<td>Findings</td>
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<tr>
<td>McKeever and Brown</td>
<td>2019</td>
<td>Australia</td>
<td>What are the client, organisational and employee related outcomes of high quality leadership in the Allied Health professions? A Scoping Review</td>
<td>Qualitative outcomes as a result of high-quality leadership. 35 articles. Lack of viable AH research. 4 styles of leadership prevalent, traits of an effective leader identified, specific examples of outcomes relating to client, organisation and employee when leadership is effective.</td>
<td></td>
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<tr>
<td>Mickan et al.</td>
<td>2019</td>
<td>Australia</td>
<td>Realist evaluation of allied health management in Queensland: what works, in which contexts and why.</td>
<td>Identification of mechanisms that work to achieve effective and efficient outcomes</td>
<td></td>
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<tr>
<td>Orton and Hocking</td>
<td>2017</td>
<td>New Zealand</td>
<td>Clinical Governance: Implications for occupational therapists in Aotearoa New Zealand</td>
<td>Exploring the impact of NZ's Clinical Governance (CG) framework on Occupational Therapy practice in NZ.</td>
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<tr>
<td>Smith et al.</td>
<td>2018</td>
<td>England</td>
<td>Leadership in interprofessional health and social care teams: a literature review</td>
<td>A review examining how leaders of interprofessional teams are functioning and synthesis identifying factors that contribute to good leadership practice.</td>
<td></td>
</tr>
<tr>
<td>Authors</td>
<td>Year</td>
<td>Country</td>
<td>Title</td>
<td>Summary</td>
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<tr>
<td>Edmonstone, J</td>
<td>2020</td>
<td>England</td>
<td>Beyond healthcare leadership? The imperative for health and social care systems leadership</td>
<td>Health and social care as a system rather than separate organisations, developed through systems leadership. Leadership not individual leaders.</td>
<td></td>
</tr>
<tr>
<td>Faculty of Medical Leadership and Management</td>
<td>2018</td>
<td>England</td>
<td>Review Report: Barriers and enablers for Clinicians moving into senior leadership roles</td>
<td>Progression to leadership roles rarely promoted as legitimate career pathways. Skills and competencies required were not always clearly known. Need to identify and develop leadership talent. Lack of data about the backgrounds and qualifications of senior NHS leaders. The need for more Allied Health leaders identified by existing Allied Health leaders.</td>
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**HEALTH LEADERSHIP FRAMEWORKS**

Until July 2022 there are 21 District Health Boards (DHBs) in New Zealand who have a variety of roles at their executive board level. [8] These are led by clinical and non-clinical leaders whose perspective spans clinical and operational systems. Each DHB autonomously creates and shapes their leadership and governance structure according to the perceived need [9]. In 2016, the refreshed New Zealand Health Strategy was published providing clear direction to ensuring ‘Value and high performance, Te whāinga hua me te tika o ngā mahi’ of the health system performing as ‘One team, Kotahi te tīma’. The theme ‘One team’ focuses on building leadership, talent and diversity within the workforce. Reducing fragmentation of services and fostering collaboration are key elements to improving timeliness service provision, access to services and reducing duplication of resource. [10] However, the refreshed strategy only partially achieved the outcomes it sought. A lack of coordinated leadership development across the health and disability workforce emphasised the need to develop leaders early and create deliberate career pathways. [11]

A key aspect of healthcare governance is the empowerment of clinicians into leadership roles. In 2009, The Ministerial Task Group Report ‘In Good Hands: Transforming Clinical Governance in New Zealand’ [12] was published outlining the transformative changes required to the leadership of clinicians as well as identifying the need to nurture clinicians into roles to lead. The Task Group reported, ‘healthcare that has competent, diffuse, transformational, shared leadership is safe, effective, resource efficient and economical’. [12] However, the implementation of their recommendations on clinical governance has not been without its challenges. Orton and Hocking [13] reported that each DHB was left to interpret the recommendations in their own way and develop their own frameworks. This evidence contradicts the intention of a united and shared vision for a standardised approach to clinical governance.
Exploring the implications of clinical governance for occupational therapists in NZ, Orton and Hocking [13] affirmed the benefit it has on quality improvement and service reform and concluded that the proposed advantages that clinical governance brings to the development of leadership and the healthcare system in NZ present opportunities but only when it is fully understood. It is suggested we continue to lack a coherent and easily implemented leadership framework for healthcare and disability services in NZ. While there is evidence of DHBs working hard to implement localised leadership development and training courses, they don't have a single framework to reference for consistent and quality assured competency requirements. [3] Garman, Standish [14] suggests that the use of a universal framework or model provides neutral territory for developing programmes. He goes on to claim there are indeed ‘more similarities than differences in the leadership development challenges’ faced by health systems within a nation (p.9). Although this claim is supported by Marinelli-Poole, McGilvray [3] their case study included only two DHBs in NZ, a sample too small to confirm the claim across NZ healthcare organisations.

Evidence demonstrates that ineffective leadership leads to poor patient outcomes and is associated with inadequately performing healthcare services. [15] The drive therefore for successful outcomes and positive high-performance measures within healthcare systems has seen a diverse number of healthcare service leadership models and provision frameworks across New Zealand and Australia. Modern healthcare is delivered from within a team-based framework utilising a breadth of skills across professions and a focus on positive healthcare experience, which emphasises the critical elements of consumer engagement and consumer centred care. [2, 10] Examples of leadership programmes developed for the New Zealand health service include; The Leading Excellence in Health Care Programme and XcelR8 [3], i3 Health Leadership [16] and HELM – Hub for the Essentials of Leadership and Management. [17]

In a world where our populations are presenting with more complex conditions, they typically require an approach that has a broader perspective rather than solely a diagnostic focus. According to McKeever and Brown [18] ‘any professional group can improve the quality scores for health services not just medical and nursing’. There is a growing emphasis on interprofessional health teams to lead cohesively to meet the needs of the consumer. [11, 19] In order to facilitate effective interprofessional service delivery it requires leadership with an understanding across agencies and professions involved. Evidence suggests that allied health clinicians achieve successful outcomes where they have a systems leadership role. Improved patient outcomes, reduction in wait list volumes for medical and surgical interventions and the provision of high-quality outcomes are proven results of allied health clinician led services and clinics. [2, 20]

A growing number of institutes around the world are developing health leadership competency frameworks. This is in response to the growing evidence that effective leadership is crucial to a healthcare organisations success in meeting the increasingly complex challenges of a population’s health needs. In the United Kingdom’s (UK) National Health Service (NHS) report ‘High Quality Care for All’, Darzi [21] affirms that leadership is a mechanism for change and will enhance the quality of provision to patients where the opportunities are taken up. Leadership is a central component to supporting patients towards optimal clinical outcomes and the accurate assessment of leadership performance plays a vital role in the development and improvement of leadership for healthcare organisations. [14, 22, 23]

In his research of the conceptualisation of health care leadership by medical trainees, Gordon, Rees [24] argues that the individualistic, profession-based leadership model is out of date in its capacity to respond to contemporary healthcare. Where context and educational influence play important roles in leadership conceptualisation, it is now proposed that development of health leadership is more effective than leader development within the healthcare context. [25] Therefore, the individualistic and profession-based leadership model of development is likely to ‘self-perpetuate’ within an individualistic workplace culture. [24] Where an individualistic profession focus perpetuates siloed leadership programmes, competency in interprofessional leadership cannot be gained. [26] Knowledge and awareness of the interplay between professions is key to leading the contemporary healthcare system and services provided. Leadership in this context is therefore required to not only acknowledge the contributing professions but their culture, identity and unique skill mix. [20]

Leadership across multiple professional groups has never been more critical. As our New Zealand (NZ) health organisations and governance structures look to their service design, effectively led collaboration is essential. [14]
The NHS Improvement [27] report 'Clinical Leadership – a framework for action' emphasises 'collaborative and compassionate' leadership as one of the requirements to meet contemporary healthcare challenges. Leadership requires good communication and consultation skills to manage diverse teams. Interprofessional leadership can be demanding since it does not rely on the professional credibility as a locus of authority. [28] Recommended leadership competencies extend beyond operational skills to inherent values, behaviours and relationships. Garman, Standish [14] argues that where a leadership model does not include them it reflects a potential 'blind spot'. (P.7) Therefore, where a specialised and technical focus is required for clinical skills a more board perspective and pan-profession orientation is required for leadership. With growing evidence that the future of healthcare reform lies in leadership of interprofessional team’s, literature argues it is a disadvantage to staff that their opportunities for leadership and development are not based on an interprofessional model of leadership. [14, 29] There is recognition in the literature that leadership in healthcare transcends professions, Bradd, Travaglia [30] report that allied health staff are well positioned to lead healthcare reform premised on a culture that focuses on being 'holistic, person centred, team based and inclusive'. According to Mickan, Dawber [20] allied health leaders understand the uniqueness of different professions, able to enhance patient care through the delivery of appropriate models of care.

**CURRENT STATE**

Comparative to the wealth of literature on health leadership premised on medical and nursing professions, there is a paucity of literature on allied health leadership in contemporary healthcare. [18, 30-34] Typically, where research has been conducted on leadership by allied health clinicians it is typically focused on the leadership of a single profession, and addresses a single profession’s leadership style, behaviours or related outcomes. [4] Since 2017, Australia and the United Kingdom (UK) have begun to address allied health leadership across professional boundaries. Taking a broader view in their leadership research both Bradd, Travaglia [4], [30] and Boyce and Jackway [35] have researched the leadership experience and capacity of allied health professions across multiple professions. While in the UK, the NHS Improvement forum has recently published reports addressing the current state of Allied Health leadership and designed a framework to support leadership development. [27, 36] The NHS Improvement [36] research collated information from allied health leaders leading allied health professions as well as those in senior leadership they reported to. It provided new information on the lack of organisational governance infrastructure supporting allied health services and the impact it had on delivery and productivity. The study also had a second focus on the ‘characteristics, key skills and attributes of effective AHP leaders’ and how they had been gained (p.15). Despite this progress little is understood about the barriers or enablers to allied health staff progressing into systems leadership roles.

As evidenced by the literature, Australia and the UK have made significant progress into the allied health leadership research field. [30, 35-37] It is argued that one of their key drivers for research is the lack of established and unified allied health leadership roles. [36] Conversely, in NZ there are strategic allied health leadership roles at every DHB executive board level but a lack of evidence to support the efficacy and impact of the existing allied health leadership. This absence of evidence exists across leadership capability and the requirements for development of future leaders. While the gap in research exists, it is a challenge to understand how to support the leadership of healthcare by allied health professionals and increase their potential for impact at the strategic and health reform level. There are many avenues of research available and key drivers include the current transformational shift in healthcare towards cohesive and integrated services, the recent appointment of a chief allied health professions officer and the predominance of non-allied health staff in governance roles. [11]

Wylie and Gallagher [32] argued that it is vital that allied Health professions develop leaders to fulfil their potential by seizing opportunities presented in the redesign of health care services. They suggested that having the leadership capacity would support allied health leaders in contributing to the services most in need of reform and improvement. This is affirmed by the Australian study of allied health leadership perceptions by Bradd, Travaglia [30] which reports not only is there under-representation of allied health professions in health system change roles but that allied health leaders feel ‘powerless to affect health system change compared to their colleagues’ (p.2).

There is a lack of empirical evidence regarding the added value of allied health leadership is clear but what there is...
identifies a connection between successful health outcomes and effective allied health leadership. [4, 18] According to Markham [2] allied health is ‘front seat’ to lead changes in health system using leadership, workforce model changes and a focus on prevention and early intervention. Mickan, Dawber [20]’s study reported executives described allied health leaders as ‘influential’ in the development of new models of care, using collaborative models of service delivery ‘adding value’ to business and improved outcomes for consumers.

BARRIERS AND ENABLERS

According to Orton and Hocking [13] allied health professionals may not always take leadership opportunities due to a lack of recognition of their own potential. The context in which they practice may also influence their perceptions of leadership. Wylie and Gallagher [32] studied the transformational behaviours in allied health leaders and identified that if new allied Health professional graduates do not receive leadership development training the context in which they practice is likely to make them resistant to change. Conversely Bradd, Travaglia [37] identify that there is success in improving outcomes for healthcare when allied health leadership training is provided, without stipulating timing of provision. Regardless of when the training is provided it is evident that training and development is effective in creating leadership capability. [23] Consideration of context also includes organisational culture. If allied health leadership is not supported within the organisational culture, then there can be a negative impact on organisational performance. [38]

A key report published in the UK [39] identifies a dominance of medical and nursing professionals in leadership roles. This finding aligns with a previous study for New Zealand published by Gauld and Horsburgh. [39] That report [39] made key recommendations to support the increase of clinicians into senior leadership roles, drawing on leadership across ‘all relevant clinical professions’. [40] While the recommendations were inclusive the study sample was not and the majority of views were provided by medical and nursing staff, limiting the generalisability of their findings. An indication that medical leaders can be more easily identified, is substantiated by Gordon, Rees [24] who reported in his research that participating trainee doctors saw their role as one which should be taking the lead.

Literature identifies that context and education play significant roles in how leadership is perceived, this suggests that leadership culture change is associated closely with training. [24] Training is required to develop the insights and tools to lead effectively in ‘volatile, uncertain, complex and ambiguous situations. [23, 41] Considering context, a lack of professional partnership and interprofessional engagement undermine the ability to contribute to strategic and operational elements of health care planning and service provision. [39] All clinicians, including allied health professions need to be viewed as equals rather than through a hierarchical perspective. Where recruitment is specified to a profession, rightly or wrongly, it does not allow for the employment of the most appropriate person and could lead to the inequity of opportunities for staff to lead. This in turn can lead to allied health professionals feeling disempowered in comparison to their colleagues. [30]

CONCLUSION

The international literature affirms expanding the scope of clinicians in systems leadership roles. [40] The allied health workforce are called to step forward and lead, that they may be understood and use their valued skills to help shape New Zealand’s health and disability system. [42] While New Zealand supports allied health clinicians in health systems leadership roles, there remains an inequitable representation across the health and disability system. Contextualised research is required in order to understand what factors, enable or limit allied health clinicians stepping into health systems leadership roles. These research findings could be used to inform the Ministry of Health, senior allied health leaders, health organisations and the allied health community. The information could be used to develop frameworks and policy that will support, develop and sustain allied health clinicians leading across the health and disability system.

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40. Faculty of Medical Leadership and Management. Review Report: Barriers and enablers for Clinicians moving into senior leadership roles. 2018 15 November. 

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