The therapeutic relationship between a client and dietitian: A systematic integrative review of empirical literature

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Abstract

Aim: Scientific evidence underpins dietetics practice; however, evidence of how the therapeutic relationship influences outcomes is limited. This integrative review aims to provide a comprehensive overview of the topic of the therapeutic relationship between clients and dietitians in the individual counselling context by summarising empirical literature into qualitative themes.

Methods: An electronic literature search of the Cumulative Index of Nursing and Allied Health Literature, PsychInfo, Scopus and Web of Science databases was conducted in October 2018 and repeated in February 2021. Studies were included if they explicitly referred to the therapeutic relationship (or associated terms), were based on study data and available in full text. Extracted data were checked by a second researcher and the methodological quality was evaluated independently by two researchers using the Mixed Methods Appraisal Tool. An iterative process of qualitatively coding, categorising and comparing data to examine recurring themes was applied.

Results: Seventy-six studies met the inclusion criteria. Five themes were identified which showed the extent and nature of research in this area. Studies revealed the therapeutic relationship: (i) is valued within clinical dietetic practice, (ii) involves complex and multifactorial interactions, (iii) is perceived as having a positive influence, (iv) requires skills training and (v) is embedded in practice models and tools.

Conclusion: Studies show the therapeutic relationship is a valued and multifactorial component of clinical dietetic practice and is perceived to positively influence the client and dietitian. Observational data are needed to assess the extent to which the strength of the therapeutic relationship might contribute to clients' health outcomes.

KEYWORDS
systematic review, patient-centered care, professional-patient relations, qualitative research, therapeutic relationship
1 | INTRODUCTION

Dietetics is an evidence-based profession where peer-reviewed, scientific research underpins practice. The International Confederation of Dietetic Associations describes evidence-based practice as a skill for dietitians to guide their decision-making. They describe dietitians having to combine an assessment of how valid, applicable and important evidence is with their own expertise and the client’s values and circumstances. Hence, an evidence-based approach requires critical skills of the dietitian in understanding, evaluating and applying scientific knowledge in a meaningful way for the client. In Australia, dietitians are required to practise within an evidence-based approach as outlined by the Statement of Ethical Practice and National Competency Standards, a requirement that is supported by the International Code of Good Practice published by the International Confederation of Dietetic Associations. Thus, practising in a way that is built upon credible, scientific evidence is fundamental to the dietetic profession. This evidence should also relate to how effective practice is conducted, including consideration of the therapeutic relationship with clients.

Although governing documents depict the therapeutic relationship as crucial for clinical dietetic practice, comprehensive descriptions of its key components are scarce. For example, the competency standards for dietitians in Australia state dietitians must ‘build an effective relationship’ with little articulation of what an effective relationship might look like. In earlier research, the authors have shown that meaningful therapeutic relationship development is a complex and multi-faceted process. However, prior to this, many studies simply identified stand-alone qualities (such as ‘trust’) as important for relationship development without detailed descriptions of the process of meaningful relationship development as a whole. The limited descriptions of important relationship components may in part be due to the heavy influence of biomedical and nutritional sciences as sources of evidence for practice. A qualitative study that explored dietitians’ perceptions of evidence-based practice reported that dietitians did not perceive knowledge about communication skills to be ‘evidence-based’. In contrast to biomedical and nutritional information, dietitians did not feel they needed to retrieve information from the scientific literature to understand the evidence-base around communication skills. These skills were instead considered as ‘know-how’, gained through professional development opportunities rather than scientific literature. The therapeutic relationship is integral to communication and counselling practices, as they are pivotal to how effectively the client and dietitian engage and are able to work together. However, these findings suggest dietitians may also not consider knowledge and skills in the development of therapeutic relationships as part of the ‘evidence-based’ reference framework. This suggests a need for more scientific knowledge of therapeutic relationships, particularly as it can indeed provide evidence that informs practice.

Exploratory research may be required in the first instance. Integrative literature reviews are appropriate as they can provide a more comprehensive understanding of a specific healthcare phenomenon by summarising relevant literature and allowing various methodologies to be included. Integrative reviews on therapeutic relationships can be found in other disciplines such as nursing, physiotherapy and occupational therapy, but are limited in dietetics. One integrative review of published studies from 1997 to 2016, focused on patient-centred care in dietetics. It highlighted the significance of the therapeutic relationship and noted this relationship as an important dimension in delivering patient-centred healthcare. Although patient-centred care and the therapeutic relationship are related concepts, the integrative review on patient-centred care did not comprehensively focus on the therapeutic relationship. The inclusion criteria specified ‘relationship’ only and did not include other terms known to represent the phenomenon of the therapeutic relationship, for example, ‘alliance’, ‘connection’ and ‘rapport’. Dietetic students were also excluded and hence the review on patient-centred care did not capture literature describing how students might be trained in therapeutic relationship development. There remains a need to review research that comprehensively focuses on the concept of the therapeutic relationship (including other like terms), particularly those published prior to 1997 and since 2016.

The integrative review reported here addresses the broad question ‘What does research on the therapeutic relationship tell us about the phenomenon in clinical dietetic practice?’ The aim of this study was to provide a comprehensive overview of the topic of the therapeutic relationship between clients and dietitians in the individual counselling context by summarising empirical literature into qualitative themes. The term ‘therapeutic relationship’ is widely used across healthcare literature and hence is used throughout to refer to the purposeful relationship between a client and dietitian for the client’s therapeutic benefit. ‘Therapeutic alliance’ is also used, as it is a term used within the psychology discipline that refers to a component of the therapeutic relationship.

2 | METHODS

This integrative review was written in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines.
A systematic electronic literature search was conducted in October 2018 and repeated in February 2021 to account for studies published after the original search date. The terms ‘dietitian’, ‘client’ and ‘relationship’ were used as a foundation to identify other relevant search terms. To ensure a comprehensive list of terms was achieved a health sciences librarian was consulted and the online version of the Oxford thesaurus was used in addition to the first author’s knowledge of terminology expressed in the literature. Medical subject headings (MeSH) were also utilised to ensure key terms were included and truncated appropriately, for example, searching for ‘relation*’ rather than ‘relationship’. Search terms corresponding to the dietitian and client included: ‘dietitian’, ‘dietician’, ‘nutritionist’, ‘client’ and ‘patient’. Search terms corresponding to ‘relationship’ included: ‘relation*’, ‘alliance’, ‘partner*’, ‘collaborat*’, ‘connect*’, ‘rapport’, ‘bond*’ and ‘interaction*’. Boolean connectors ‘AND’ and ‘OR’ were used. Four electronic databases were searched: Cumulative Index of Nursing and Allied Health Literature (CINAHL), PsychInfo, Scopus and Web of Science. Research shows electronic database searches may yield only half of the eligible studies and therefore other strategies were applied, including ancestry searching and hand searching of key dietetic journals. Google Scholar and Scopus databases were used to attain articles identified through ancestry and hand searching. All citations obtained through searching were imported into EndNote for data management purposes.

One researcher screened the titles and abstracts of articles according to the inclusion and exclusion criteria. Studies were included if they: (i) explicitly referred to the relationship, alliance, partnership, collaboration, connection, rapport, bond or interaction between a client and dietitian, nutritionist or nutrition and/or dietetic student concerning the study being reported, (ii) were empirical (that is based on data collected for a study), and (iii) were available as full text. Studies were excluded if they referred to the relationship (as outlined in the inclusion criteria above) but only with regard to group-based interventions, or described a multidisciplinary context but it was unclear if the relationship was between a client and dietitian, nutritionist or nutrition and/or dietetic student specifically. No exclusion criteria for study language or year was applied to maximise the opportunity for relevant data to be captured. English translations of the full-text version of published articles were requested from authors via email. Articles were obtained and each full-text article was read by the researcher to determine if they met the inclusion criteria.

Data were systematically extracted into a Microsoft Excel table that included study authors, year and country, study design and aim, inclusion criteria, sample, data collection and analysis methods and findings concerning the therapeutic relationship or associated terms. One researcher extracted all data which were checked by a second researcher using a method for source data verification (that is comparing original documents to recorded data). The percentage of errors identified was within the acceptable error rate (≤5%) meaning no further checking of data was required.

The methodological quality of each study identified in the initial search was independently scored by two researchers using the Mixed Methods Appraisal Tool (MMAT). This was performed due to the subjectivity of the MMAT. Researchers discussed differences between scores and an agreed score was decided. Justification for the agreed scores was documented and used to score studies identified in the repeated search.

Following processes outlined by Whittemore and Knaf, the data were ‘ordered, coded, categorised and summarised’ by one researcher and refined through discussions with the interdisciplinary research team (dietetics and psychology). Initially, studies were ordered according to whether they referred to the ‘relationship’ or ‘alliance’, or associated terms such as ‘connection’. Data concerning the terms ‘relationship’ and ‘alliance’ were analysed together because both are established terms in the psychology discipline with evidence-based constructs (e.g., psychologist Bordin’s ‘working alliance’). These terms were initially analysed separately from other terms in anticipation of a possible difference in findings given their link to evidence-based constructs. Data were then ordered according to study design (either qualitative, quantitative, mixed methods or literature reviews).

Whittemore and Knaf suggest applying the constant comparative method particularly for analysing data from different methodologies. All extracted data were copied directly from the data extraction table for coding by one researcher. Data concerning the relationship and alliance were coded first, followed by data concerning associated terms. The coding process began with assigning initial codes, which were codes that described evidence in the data extract for either ‘relationship’, ‘alliance’ or associated terms. These codes were then compared, where similarities between codes were identified and consequently grouped together to form common themes. This process involved re-reading codes and adjusting preliminary
themes to ensure the themes reflected the codes. Once themes were developed for data within each study design, they were then compared across study designs and merged where similarities were seen (e.g., quantitative and qualitative data showing the relationship is important). Data were collated across study designs to reflect merged themes. This process occurred separately as part of the analyses for both primary terms (‘relationship’ and ‘alliance’) and associated terms (e.g., ‘connection’).

Established themes within both primary and associated terms analyses were compared, with similarities and differences documented. These notes allowed identification of major themes across both analyses, and where appropriate these were adapted to reflect data from both analyses. Following this, data were collated and findings were reviewed to confirm each theme. The final phase of the analysis involved drafting a summation of each theme where its meaning was further crystallised. Meetings were also held with the interdisciplinary research team where the emerging analysis was discussed, critiqued and refined. This team consisted of researchers from both dietetics and psychology and allowed for themes that were developed from a dietetics lens to be challenged from a psychology perspective. Additional notes were kept by the researcher to document the emerging analysis, analytical decisions and possible directions for further analysis.

3 | RESULTS

From 2433 studies identified for screening, 76 studies were included (Figure 1). Most quantitative studies were descriptive, and predominantly utilised surveys (n = 21)
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT | Key findings related to primary terms | Key findings related to associated terms |
|-----------------|--------|--------------------------|-------------|------|-------------------------------------|------------------------------------------|
| Ash et al., 28 Australia Qualitative: interviews and guided discussions (secondary analysis) | Dietitians (1991 interviews n = 26) (1998 interviews n = 23) (2007 interviews n = 19) Dietitians and employers (2014 guided discussions n = 7) | To explore how a competency-based education framework influenced competency standards and their application and how this influenced dietetic practice in Australia since 1990 | **** | Communicating for better care, as part of the therapeutic relationship, remained a central dietetic role (throughout dietetic competency standards in Australia) | Communication skills of dietitians have evolved from educating clients to negotiating with clients. Competency standards have reflected this change, from ‘Interprets and translates nutrition information’ (1993 competency standards) to ‘Collaborates broadly with clients...’ (2015 competency standards) |
| Ball et al., 7 Australia Qualitative: semi-structured interviews (telephone) | Clients (n = 10) | To explore the nutrition care needs of newly diagnosed patients over time, as well as their views on how dietitians can best support the long-term maintenance of dietary change | **** | Clients value genuine relationships few participants perceive an ongoing relationship with their dietitian to be useful. The importance of the dietitian treating the patient as a person for the relationship | |
| Brody et al., 29 USA Quantitative—descriptive: Delphi | Dietitians (n = 73) | To describe the practice activities performed by clinical advanced practice registered dietitian nutritionists that reached consensus using the Delphi technique | *** | | Dietitians reached a consensus on ‘establishing trust and rapport’ being an essential component of advanced dietetic practice |
| Brown et al., 30 USA Quantitative—descriptive: survey (paper) | Dietitians (n = 395) | 1. To identify the motivational strategies used most often by dietitians when counselling individuals with diabetes mellitus 2. To determine those strategies that dietitians | **** | Identification of effective strategies for establishing a comfortable relationship with client: using positive external motivators, individualising recommendations and exhibiting organisational management of content | The rapport between a patient and dietitian was not identified as a barrier to dietary adherence for patients managing diabetes |
| Author, Country       | Design                        | Participants, sample size          | Study aim/s                                                                 | MMAT* | Key findings related to primary terms                                                                 | Key findings related to associated terms |
|----------------------|-------------------------------|-----------------------------------|----------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Buttenshaw et al., 31 | Australia                     | Dietitians (n = 185) (Study 1)   | To develop a reliable instrument to measure generalist dietitians’ confidence about working with clients experiencing psychological issues | ***   | ‘Build rapport’ was included in the initial confidence scale, however, it was not included in the final scale |
|                      | Quantitative—descriptive:     | Dietitians (n = 458) (Study 2)   | 3. To identify barriers perceived by dietitians as being the most significant obstructions to dietary adherence experienced by individuals with diabetes 4. To explore the effect of various demographic variables such as level of education, years of experience, setting of practice, and certification as a diabetes educator on the use of motivational strategies |       |                                                                                                        |
| Cairns and Milne, 32 | Canada                        | Dietitians (n = 65)               | To determine what counselling strategies are being used and identify the educational needs of registered dietitians who work with clients with eating disorders in Canada | ***   | ‘Rapport building’ was identified as a common type of strategy used by dietitians. Some dietitians (10% of sample) did not want more training in rapport-building strategies, with the most common reason being they felt well-trained in this skill already. The following strategies were listed as rapport-building strategies: reflective listening, attending to non-verbal communication, person-|
|                      | Quantitative—descriptive:     |                                   |                                                                            |       |                                                                                                        |
|                      | survey (mail)                 |                                   |                                                                            |       |                                                                                                        |
|                      |                               |                                   |                                                                            |       |                                                                                                        |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|---------------------------|-------------|-------|---------------------------------------|-------------------------------------------|
| Cant and Aroni, Australia | Mixed methods: survey (online) | Dietitians (n = 258) | To critically examine practising dietitians’ experiences and perceptions of their roles in education of individual clients, both in applying entry level communication skills, and in progressive skill development | *** | Dietitians aim to develop a working alliance with their clients as desired in more collaborative relationships | Dietitians who were trained 30 years before the study date commented on the transition in practice from educating clients, to more modern practice utilising a partnership with the client and skills in nutrition counselling |
| Cant and Aroni, Australia | Mixed methods: focus groups and semi-structured interviews (face-to-face or telephone) (Phase 1) and survey (online) (Phase 2) | Dietitians (n = 46) clients (n = 34) (Phase 1) Dietitians (n = 258) (Phase 2) | To examine perceptions of both dietitians and their patients about dietitians’ skills and attributes required for nutrition education and individuals | ***** | Understanding the results of the study (as a guide to communication practice) might help enhance dietitian-patient relations | ‘Partnership’ and ‘collaboration’ identified as part of interpersonal and communication skills in a model of professional performance in communication. Results suggest that collaboration is required in the professional competencies of dietitians in the 21st century |
| Cant and Aroni, Australia | Mixed methods: focus groups and semi-structured interviews (face-to-face or telephone) (Phase 1) and survey (online) (Phase 2) | Dietitians (n = 46) clients (n = 34) (Phase 1) Dietitians (n = 258) (Phase 2) | To examine dietitians’ perceptions of process in education of individual clients and to validate performance criteria for dietitians’ nutrition education and counselling of individuals | ***** | ‘Counselling’ used by 93% of dietitians (where counselling was described as the use of a relationship to problem-solve with clients). ‘Relationship-building skills’ identified as the first step of nutrition education in developed model. ‘Relationship-building skills’ defined as ‘develop rapport through introductions, informality, verbal, non-verbal communication, own presence’. The developed model suggests dietitians build a relationship with... | ‘Rapport’ was included in the definition of the first step of the nutrition education model, ‘relationship-building skills’. The definition read ‘develop rapport through introductions, informality, verbal, non-verbal communication, own presence’. The developed model suggests dietitians build a relationship with... |

(Continues)
| Author, Country | Design                          | Participants, sample size | Study aim/s                                                                 | Key findings related to primary terms                                                                 | Key findings related to associated terms                                                                 |
|----------------|--------------------------------|--------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Cant, Australia | Qualitative: focus groups and semi-structured interviews (face-to-face or telephone) | Dietitians ($n = 46$) Clients ($n = 34$) | To explore dietitians’ and clients’ perceptions of trust and to develop a model to explain trustworthiness and professionalism in a health care setting | ‘Collaboration skill’ was identified as a second step of the developed model, and was partly defined as aiming for partnership with client to problem solve | The developed model describes collaboration and partnership within a nutrition education and counselling consultation with individual clients |

**MMAT**
- Communication and own presence’ model for nutrition education suggesting dietitians build a relationship through developing rapport
- ‘Communication skills’ identified as underpinning nutrition counselling practice, and defined as ‘applies advanced communication skills to counselling to develop a professional relationship with clients’ (where client’s own experiences and knowledge are central and carry authority within the relationship).
- ‘Collaboration skill’ was included as part of ‘professionals’ verbal and non-verbal communication’ within the developed model of trust
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT |
|----------------|--------|---------------------------|-------------|------|
| Cant, Australia | Mixed Methods: Focus groups and semi-structured interviews (face-to-face or telephone) (Phase 1) and survey (online) (Phase 2) | Dietitians (n = 258) (Phase 2) | To examine the impact of dietitians' dress style on the relationship with clients, as part of the verbal and/or nonverbal communication within individual client consultations. The study aimed to describe how dietitians and their clients interpret this dialogue and to explore the implications for practice. | Developed model of trust showing that trust is built through the development of a relationship that is characterized by the verbal and nonverbal communication between dietitians and clients. |
| Chapman, Canada | Mixed methods: semi-structured interview | Students (n = 365) | To explore patterns of delivery of dietetic care for patients referred under medicare chronic disease management. | Dietitians reported allocating patients longer consultation times (predominantly for initial consultations) to build rapport and establish rapport (initial consultations) for verbal and nonverbal communication. The development of a relationship that is characterized by the verbal and nonverbal communication between dietitians and clients was found to be important in the development of trust between dietitians and clients. |
| Chapman, Canada | Mixed methods: focus groups | Dietitians (n = 104) | To describe Canadian dietitians' approaches to counselling adults seeking weight-management advice, including how dietitians' approaches differ between clients with and without associated risk factors and long histories of dieting. | Dietitians described their strategy of explaining their approach to clients (when perceived to be misaligned with clients' goals) and enabling clients to decide if they wished to continue the counselling relationship. |
| Chapman, Canada | Quantitative—descriptive | Students (n = 11) | To examine the impact of dietitians' dress style on the relationship with clients, as part of the verbal and/or nonverbal communication within individual client consultations. | Students perceived the experience of attempting to comply with a diabetic diet as helping them to demonstrate empathy and build more effective relationships. |
| Chapman, Canada | Mixed methods: survey | Students (n = 104) | To describe Canadian dietitians' approaches to counselling adults seeking weight-management advice, including how dietitians' approaches differ between clients with and without associated risk factors and long histories of dieting. | Dietitians described their strategy of explaining their approach to clients (when perceived to be misaligned with clients' goals) and enabling clients to decide if they wished to continue the counselling relationship. |

** | ** | ** | ** | ** |

Table 1 (continued)
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|---------------------------|-------------|-------|-------------------------------------|------------------------------------------|
| Danish et al., USA | Quantitative—descriptive: ratings of observed practice | Students (n = 29) | To develop a model whereby the anatomy of a typical dietetic counselling interview can be assessed | * | The length of the ‘relationship-establishing phase’ (versus ‘problem-solving phase’) varied among counsellors and interviews | In developing rapport, the dietitian being able to demonstrate ‘continuing responses’ when engaging with the client is crucial. Results indicated that few verbal responses which facilitate rapport development were used by students in interviews. A suggestion was made that the length of the ‘relationship-establishing phase’ (5 min) would not be sufficient to develop rapport and trust |
| Devine et al., USA | Qualitative: semi-structured interviews (face-to-face or telephone) | Dietitians and nutrition practitioners (n = 24) | To understand dietetics and nutrition professionals’ experiences of their practice roles | **** | Dietitians perceived clients’ unrealistic expectations as having the potential to interfere with effective therapeutic relationships | |
| Endevelt and Gesser-Edelsberg, Israel | Qualitative: semi-structured interviews and focus groups | Clinical dietitians (n = 12) Supervisory dietitians (n = 5) Clients (not specified, n = 12 focus groups) | To ascertain the role of the dietitian-patient relationship and the counselling approach in influencing individual patients’ decisions to adhere to treatment by continuing or not to adhere by terminating their nutritional treatment | **** | Relationship described in a ‘counselling and therapeutic approach’, versus an ‘educational and therapeutic approach’, as both parties working together rather than the patient being solely responsible | The patient-dietitian interaction has a significant impact on the conception of the dietitian’s role. The patient-dietitian interaction influences the patient’s response to education counselling and the extent of commitment and adherence to their treatment plan. A ‘counselling and therapeutic approach’ to practice was described as enabling a partnership between the dietitian and client |
| Author, Country       | Design                                         | Participants, sample size                                                                 | Study aim/s                                                                 | MMAT* | Key findings related to primary terms                                                                 | Key findings related to associated terms |
|----------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Foley and Houston,   | Mixed methods: patient referral and attendance | General practitioners (*n* = 6) Practice nurses (*n* = 7) Receptionist (*n* = 1) Patients  | 1. To ascertain if changes to dietetic services increased referrals and attendance rates  
2. To learn from clinical staff and patients what is important to them in a dietetic service | *     | There are unique barriers at play in the context of the dietitian-patient interaction                  | Patients mentioned the dietitian taking time to make a personal connection as a factor contributing to them feeling safe with the dietitian  
Dietitians forming a personal connection with their patients facilitates improved attendance at the clinic |
| Australia            | data, focus groups and interviews             | (*n* = 13)                                                                                |                                                                               |       |                                                                                                              |                                                                                       |
| Gesser-Edelsberg and | Qualitative: focus groups and interviews      | Dietitians (*n* = 72)                                                                      | To ascertain the impact of the physical environment on the dynamics and communication between a dietitian and a client in a meeting, based on perceptions of dietitians | ***** | Recognising dietetics as a constantly changing field, and as moving towards needing to develop deeper therapeutic relationships  
Dietitians defining success as creating a relationship that motivates change for client | Dietitians perceived that a change to the spatial environmental design (according to the dynamic model) might positively impact the therapeutic interaction  
Dietitians perceived that changes in the physical environment might undermine patients’ feeling of wellbeing and unsettle the therapeutic interaction  
Most dietitians commented that they had not received training in managing the emotional aspects of the therapeutic interaction and there was no permanent or supportive arrangement to do so  
The concept of the organisation of the space |
| Author, Country   | Design                                      | Participants, sample size | Study aim/s                                                                 | MMAT | Key findings related to primary terms                                                                 | Key findings related to associated terms |
|------------------|---------------------------------------------|---------------------------|-----------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------|------------------------------------------|
| Gibson and Davidson, Australia | Quantitative—cross-sectional analytical: ratings of observed practice | Students (n = 215)       | To explore the impact of a student-simulated patient interview on the development of communication skills during formative and summative objective structured clinical exams | ***** | 'Building rapport' listed as an example of a foundation skill targeted before students undertook simulations |
| Green et al., Canada | Mixed methods: survey and interview         | Dietitians (n = 135)     | To explore registered dietitians' perceptions about expressive touch as a means to provide client-centred care | No criteria met | Majority of dietitians perceived that the use of expressive touch may enhance the therapeutic relationship Less than 5% disagreed Dietitians working in community health centres, hospitals, and long-term care reported greater agreement with the statement that expressive touch enhances the therapeutic relationship More opportunities existed for expressive touch in lower acuity environments, where dietitians have a physical layout and practice more conducive to meaningful communication (where the dietitian-patient interaction occurs is neither taught nor addressed in professional or educational frameworks) Dietitians described positive experiences with the use of expressive touch, using different forms of touch to communicate empathic concern, kindness, teamwork and gratitude that facilitated building rapport More opportunities existed for expressive touch in lower acuity environments, where dietitians have a physical layout and practice more conducive to meaningful communication (where rapport is more likely to develop) Dietitians who were less comfortable with touch |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|--------------------------|-------------|-------|--------------------------------------|----------------------------------------|
| Gregory et al., USA | Quantitative—descriptive: survey and ratings of observed practice | Not applicable | To develop an instrument for evaluating dietitians’ interviewing skills | * | ‘Rapport’ was included as a subcategory of interviewing skills within the developed scale, including: Opportunity for client questions/concerns, sensitivity to client concerns, feedback and social support and no undue interruptions | Dietitians expressed concern that expressive touch would erode trust in therapeutic relationship. Dietitians described positive experiences of using expressive touch, including reducing the power differential in the relationship. Dietitians are attempting to navigate the complexities of expressive touch to strengthen relationships with clients. Used other techniques to build rapport. |
| Hancock et al., UK | Qualitative: focus groups and semi-structured interviews (telephone) | Clients (n = 6) Dietitians (n = 44) | To explore qualitatively patients’ experiences of dietetic consultations, aiming to achieve a better understanding of their perspectives | **** | ‘Partnership’ and ‘rapport’ were identified as factors affecting participants’ experience of dietetic consultations. Patients-reported treating the consultation as a partnership and an important factor in the effectiveness of the consultation. | | (Continues) |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|--------------------------|-------------|-------|--------------------------------------|------------------------------------------|
| Harper and Maher, Australia | Qualitative: semi-structured interviews (face-to-face or telephone) | Dietitians ($n = 11$) | To develop an explanatory theory of how dietitians in private practice source, utilise and integrate practice philosophies | **** | Dietitians described forming collaborative relationships with clients to nurture change | Patients described a good rapport between themselves and the dietitian as essential |
|                  |        |                          |             |       |                                       | A lack of rapport with the dietitian was listed as contributing to the client's negative experience of dietetic consultations and impacting their outcome achievement and perceived effectiveness of consultations |
|                  |        |                          |             |       | THE private practice context compels dietitians to develop mutually beneficial therapeutic relationships with patients | ‘Facilitating client autonomy’ was seen as a necessary part of enhancing rapport |
|                  |        |                          |             |       | Intellectual virtues (episteme, techne and phronesis) are fundamental to how dietitians adapt their strategies for developing therapeutic relationships | Techniques used to build rapport vary according to dietitians and clients |
|                  |        |                          |             |       | Dietitians recognise the importance of developing a therapeutic relationship, and identified these relationships as vital to clients’ wellbeing and dietitians’ livelihoods | Dietitians perceived that facilitating follow-up visits hinged on establishing a rapport and connection from the first consult |
|                  |        |                          |             |       | The need to establish a relationship where the client feels comfortable | Building a rapport was shown to be an important aspect of practice |
|                  |        |                          |             |       |                                           | The private practice context provided the motivation to establish a rapport with clients and a rich learning environment in which to foster the skills to do so |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|---------------------------|-------------|-------|---------------------------------------|----------------------------------------------|
| Harris-Davis and Haughton, **| Quantitative—cross-sectional analytical: survey (paper) | Dietitians ($n = 343$) | To develop and test a model for multicultural nutrition counselling competencies for registered dietitians | *** | The factor ‘believe that cultural differences do not have to negatively affect communication or counselling relationships’ was included under the broader category of ‘multicultural awareness’ within the multicultural nutrition counselling model | and engaged, before education or the intervention is delivered, was identified. Techniques used to develop the relationship vary, and are dependent on the client and dietitian. The relationship as a complex interpersonal experience was recognised. |
| Harvey et al., **| Quantitative—descriptive: survey (paper) | Dietitians ($n = 187$) | 1. To assess and compare dietitians’ views about overweight and obese people 2. To assess and compare dietitians’ reported weight management practice of overweight and obese people 3. To explore the associations between dietitians’ views and weight management practices | ** | Results for the item ‘I (would) make sure I spend time developing a good relationship with clients’: overweight questionnaire mean = 5.09 (SD = 0.93), obese questionnaire mean = 4.95 (SD = 1.21) Dietitians reported spending time developing good relationships with clients Reduced acceptance of obese people was associated with a reduction in time spent developing a good relationship with a client | | (Continues) |
| Author, Country        | Design                                      | Participants, sample size | Study aim/s                                                                                                                                                                                                 | MMAT*                          | Key findings related to primary terms                                      | Key findings related to associated terms                                                                                                                                 |
|------------------------|---------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hauenstein et al., 51  | Quantitative—descriptive: survey (mail)     | Dietitians (n = 194)     | To explore dietitians’ perceptions of various techniques that are known to affect dietary adherence of patients with type II diabetes                                                                         | ***                           | Shared decision making and individualisation of instruction were described as helping to establish a strong rapport between a dietetic educator and client Revealing one’s own efforts and problems in achieving dietary adherence was described as a technique used to help build rapport and support behaviour change |
| Horacek et al., 52     | Quantitative—descriptive: survey and ratings of observed practice | Students (n = 99)        | 1. To assess dietetic students’ and interns’ use of skills to apply a lifestyle-oriented nutrition counselling model  
2. To assess if differences exist between their self, client or expert evaluations; or by student type: coordinated program, didactic program in dietetics and dietetic intern | ***                           | Interviewing skills are crucial to establishing the collaborative relationship needed for effective counselling                                                                                              | ‘Establishing rapport’ was included in the developed lifestyle-oriented nutrition counselling model  
Students (mean = 4.41, SD = 0.44) rated themselves as significantly higher than their supervisor (mean = 4.26, SD = 0.38) (p < 0.01). Students are more confident in their abilities than the experts assessed, indicating room for improvement  
Students rated their rapport building skills as improving throughout training (pre-training: mean = 3.36, SD = 1.19, pre-counselling: mean = 4.01, SD = 0.79, post-counselling: mean = 4.39, SD = 0.74) (p < 0.001) |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|---------------------------|-------------|------|--------------------------------------|---------------------------------------|
| Isselmann et al., USA | Quantitative—descriptive: survey and interviews | Participants from variety of nutrition counselling settings (not further specified) \( (n = 40) \) | To develop a continuing education workshop in nutrition counselling | No criteria met | ‘Client-counsellor relationship’ was included in the workshop outline. The enhancement of the value of the patient-counsellor relationship through the application of skills and techniques from psychological models was recognised. | |
| Jager et al., Netherlands | Qualitative: semi-structured interviews | Clients \( (n = 12) \) | To explore experiences and views of ethnic minority type 2 diabetes patients regarding a healthy diet and dietetic care in order to generate information that may be used for the development of training for dietitians in culturally competent dietetic care | **** | Further research was suggested, in that observations of dietetic consultations may provide information on the ‘actual interaction’ between dietitians and clients who are migrants managing type 2 diabetes. | |
| Jager et al., Netherlands | Qualitative: interviews | Dietitians \( (n = 12) \) | To explore the experiences of dietitians and the knowledge, skills and attitudes they consider to be important for effective dietetic care in migrant patients | **** | Trust identified as an important factor in the relationship. Dietitians aware that a trusting relationship facilitates information sharing. Small gestures that facilitated a warm interaction were identified as important for the relationship. Some dietitians found it difficult to build a trusting relationship with migrant patients due to the language barrier and cultural differences. Dietitians wanted to learn how to build a trusting relationship. | |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|---------------------------|-------------|-------|-------------------------------------|-------------------------------------|
| Jakobsen et al., Denmark | Qualitative: semi-structured interviews and observations of counselling sessions | Dietitians (n = 2) Counselling session observations (n = 15) | To determine whether narrative dietary counselling applied together with motivational interviewing versus motivational interviewing alone is experienced to strengthen the relationship and collaboration between counsellors, and clients with a chronic disease | ** | Identification of a particular practice approach ‘narrative dietary counselling’ as improving relationship building between a client and dietitian Dietitians perceive trust as the most important, yet challenging, prerequisite of relationship building The use of whiteboards and narrative learning strategies fosters an equal relationship (as part of ‘narrative dietary counselling’ approach) | Dietitians indicated that using the whiteboard (as part of narrative dietary counselling) strengthened their collaboration with the client Collaboration is both important and challenging in dietary counselling Challenges to collaboration were identified as the clients’ expectations of dietary counselling and the dietitian’s role, and the presumed private character of food and eating issues Dietitians experienced the narrative approach to dietary counselling to be a powerful tool in collaborating with clients through specific techniques used |
| Jarman et al., Canada | Mixed methods: ratings of observed practice, survey, interviews and focus groups | Clients (n = 50) Dietitians (intervention: n = 1, control: not specified) | 1. To compare experiences and perceptions of using healthy conversation skills between the intervention and control registered dietitians 2. To compare perceptions of support received from the registered dietitians by intervention and control women, as well as the acceptability of the intervention | **** | The intervention dietitian commented that the healthy conversation skills approach was useful for building relationships with participants by exploring and understanding their barriers and solutions to issues they had ‘building relationships’ identified as a theme | |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|-----------------|--------|--------------------------|-------------|-------|---------------------------------------|------------------------------------------|
| Jones et al., 57 UK | Qualitative: semi-structured interviews (face-to-face) | Clients ($n = 24$) | To obtain views of patients attending community dietetic clinics, on the dietetic service, the outcomes of dietary treatment in terms of lifestyle change and the impact that attending the dietitian had on their lives | **** | Half of the clients interviewed reported a positive relationship with their dietitian | Clients valued ongoing, supportive and positive relationships with their dietitian | Clients reported a link between their levels of motivation and their relationship with their dietitian |
| Karupaiah et al., 58 Malaysia | Quantitative—cross sectional analytical: ratings of observed practice | Dietetic interns ($n = 27$) | This article shares the experience at the National University of Malaysia in assimilating the nutrition care process into the dietetics curriculum. A performance evaluation tool was designed by incorporating the key elements of the nutrition care process and was applied to assess dietetic interns’ competencies and skills in identified clinical areas. | ** | A ‘collaborative counsellor-patient relationship’ was identified as a learning component of the performance evaluation tool | Learning attributes and skills were identified: Demonstrating appropriate bedside manner, eye contact and intonation, listening skills and identification of relevant information, involving family members in counselling process, setting priorities for dietary advice and establishing goals for patient, creating individualised plans, providing practical advice, acknowledging and fostering patient’s self efficacy |
| Author, Country   | Design                                         | Participants, sample size | Study aim/s                                                                 | MMAT* | Key findings related to primary terms                                                                 | Key findings related to associated terms                                                                 |
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| Knight et al.   | Quantitative—descriptive: survey              | Nutrition and dietetics students (n = 112) | To measure attitudes of student dietitians with respect to communication skills teaching and how experiential learning using simulated patients impacts confidence in their communication skills | ***** | Almost all students rated communication skills as important for relationships with patients (99.1%) | Significant difference in number of students who were very or extremely confident in ‘building and sustaining a trusting relationship with patient’ before and after communication skills teaching |
| Lambert et al.  | Qualitative: semi-structured interviews        | Dietitians (n = 27)      | To explore the experience of renal dietitians regarding the process of educating patients with end stage kidney disease 1. To describe the strategies they perceived to help patients understand the renal diet to support adherence | ***** | Dietitians have a strong desire to form a collaborative relationship with their client, as it contributed to their pride and professional satisfaction | Dietitians perceived a trusting relationship as important in optimising patients’ ability to self-manage Dietitians perceived empathy as an important enabler of trusting relationships Dietitians described a discrepancy between ‘ideal’ and actual practice in not having adequate time to effectively develop the dietitian-patient relationship Findings are consistent with previous research confirming the critical role of developing rapport with patients |
| Lambert et al.  | Quantitative—descriptive: ratings of observed practice | Dietitians (n = 4) Patients (n = 24) Carers (n = 11) | To evaluate the impact of a renal diet question prompt sheet on patient | **** | The proportion of utterances devoted to building a relationship reduced | Follow-up phone reviews were perceived by dietitians to be ‘cutting corners’ and detrimental to maintaining rapport Dietitians perceived layering advice helped to preserve rapport and empower patients which facilitated long-term professional relationships Findings are consistent with previous research confirming the critical role of developing rapport with patients |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Laquatra and Danish, USA | Quantitative—cross-sectional analytical: ratings of observed practice | Nutrition and nursing students (n = 30) | To evaluate an attempt to have nutrition counselling students, who were previously trained by the Danish, D’Augelly, and Hauer method through an academic course, transfer helping skills to the nutrition counselling setting | * | Students in the experimental group differed from the control group in their verbal behaviours which facilitated the development of a helping relationship |
| Lee and Won, Canada | Quantitative—descriptive: survey (paper) | Clients (n = 130) | To examine the patterns of patient-provider collaboration among patients undergoing radiotherapy | *** | Client scores for collaboration with dietitians were significantly lower than scores for radiation oncologists, radiation therapists and nurses The level of client-dietitian collaboration may depend on the level of symptom distress the client is experiencing |
| Levey et al., Australia | Qualitative: semi-structured interviews (telephone) | Dietitians (n = 12) | To explore the barriers and enablers to delivering patient-centred care from the perspective of primary care dietitians | **** | Dietitians explained that it was challenging to build rapport (among other required tasks) in the allocated time Dietitians described rushing in an attempt to meet perceived expectations from clients and |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
|----------------|--------|--------------------------|-------------|-------|--------------------------------------|------------------------------------------|
| Lewis et al.,[^65] USA | Quantitative—cross sectional analytical: ratings of observed practice | Nutrition students \( (n = 34) \) | To evaluate a 3-hour workshop as a method for teaching relationship-establishing skills to nutrition students | ** | Some skills that were taught within the workshop were described as ‘initial relationship-building skills’ | 'Establishes rapport’ identified as an interviewing skill that was demonstrated by less than half of the experimental group pre-workshop. Post-workshop scores of experimental and control group students did not differ significantly |
| Lok et al.,[^66] China | Mixed methods: ratings of observed practice and interviews | Nutritionists \( (n = 4) \) Clients \( (n = 24) \) | To explore the views of four nutritionists and observe their practice and relationship with patients attending a community-based lifestyle modification program on lifestyle and behaviour change, and whether this affected the outcomes of the lifestyle modification program in terms of overall weight loss | *** | Common themes emerged from all four nutritionists on the importance of establishing a good relationship with the patient Some nutritionists had a shared understanding of the importance of the nutritionist-patient relationship in helping patients find underlying issues and solutions Nutritionists need to be trained to conduct programs in the same way as it can affect their relationships with clients and consequent weight outcomes | Rapport was identified as a subtheme across multiple themes (attitude towards patients, strategy to tackle weight loss and counselling skills) Common themes emerged on the importance of establishing a good rapport with patient Nutritionists identified establishing rapport as a main counselling strategy Unconditional acceptance, genuineness and empathy were identified as highly important to achieve rapport |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Lordly and Taper, Canada | Qualitative: semi-structured interviews (telephone and face-to-face) | New graduate dietitians (n = 8) Program supervisors (n = 6) | To examine dietitians and graduate perceptions of the risks and benefits associated with the acquisition of entry-level clinical competence within a single practice environment | ***** | Decreased opportunity to establish relationships in acute care versus long-term care settings was recognised, where greater opportunity to focus on relationship building was identified The long-term care environment was identified as providing rich opportunity to gain important entry-level competencies related to relationship-building | |
| Lovestam et al., Sweden | Qualitative: analysis of dietitians’ documentation of patient consultations | Dietetic entries in patient file (n = 30) | To explore how the dietetic notes contribute to the construction of the dietetic care and patient-dietitian relationship | ***** | A lack of representation of the dietitian-patient relationship within dietetic entries identified A negative effect of the dietitian’s picture of the patient (constituted through writing in patient notes using a particular language) on the relationship with a patient was suggested The importance of the relationship in dietetics was identified, and justified through the explanation that dietetic counselling involves sensitive personal issues | |
| Lovestam et al., Sweden | Qualitative: focus groups | Dietitians (n = 37) | To explore Swedish dietitians’ experiences of the nutrition care process terminology in relation to patient record | ***** | Dietitians emphasised the importance of the dietitian-patient relationship over needing to document according to | |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Lu and Dollahite, USA | Quantitative—descriptive: survey (online) | Dietitians \((n = 612)\) | To develop a valid and reliable instrument and use it to measure dietitians’ nutrition counselling self-efficacy and reported use of a set of counselling skills. The association between nutrition counselling self-efficacy and various factors were also examined. | *** | Some skills generated from the survey were described as those most often employed for ‘relationship-building purposes’ Self-efficacy scores for survey item ‘clarify to your clients the roles and responsibilities of the dietitian-client relationship’: All participants (mean = 7.03, SD = 1.76), those participants who counsel more than 50% of their work week (mean = 7.10, SD = 1.79) and those who counsel for less than 50% of their work week (mean = 6.75, SD = 1.61). The difference between those participants who counsel more than 50% of their work week and those who do not was significant \((p < 0.05)\) | Dietitians described postponing and revising their formulation of a diagnosis statement where appropriate, until a stable relationship with their patient was established Dietitians described needing time to develop a relationship in the initial stage of engaging with a client Documentation, the patient and the dietitians’ professional role |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| MacLellan and Berenbaum, 71 Canada | Quantitative—descriptive: Delphi | Dietitians \((n = 57)\) (Round 1) Dietitians \((n = 48)\) (Round 2) | To determine the meaning that dietitians ascribe to the client-centred approach and to identify the important concepts and issues inherent in this approach to practice | *** | Wording of the survey concerned some participants as it was perceived to suggest an imbalance of power in the client-dietitian relationship Whether dietitians respect the expertise that clients bring to counselling relationships was questioned | Whether dietitians are ready to be working in partnership with clients was questioned |
| MacLellan and Berenbaum, 72 Canada | Qualitative: open-ended interviews (telephone) | Dietitians \((n = 25)\) | To explore dietitians’ understanding of the client-centred approach to nutrition counselling | *** | ‘Building a relationship’ identified as a theme in dietitians’ responses as to how they understand client-centred counselling The importance of understanding how to develop a therapeutic relationship with clients as part of being an effective counsellor was identified | |
| Madden et al., 73 UK | Qualitative: interviews (telephone or face-to-face) and focus groups | Clients \((n = 29)\) Carers of clients \((n = 5)\) | To identify the preferences for diet and nutrition-related outcome measures of patients with coeliac disease and their carers | **** | Clients preferred to see the same dietitian at each appointment, where an example was given of being able to develop rapport over time | |
| McCarter et al., 74 Australia | Qualitative: semi-structured interviews (telephone) | Clients \((n = 9)\) | To explore experiences of head and neck cancer patients receiving a novel dietitian-delivered health behaviour intervention based on motivational interviewing and cognitive behavioural therapy as part of a larger investigation examining the effect of this intervention on | *** | The importance of the dietitian being empathetic and supportive for the relationship was identified | A supportive partnership was an important part of valued working relationships between patients and their dietitian |
| Author, Country | Design                        | Participants, sample size | Study aim/s                                                                                                           | MMAT* | Key findings related to primary terms                                                                                                                                                                                                 | Key findings related to associated terms                                                                 |
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| Milosavljevic et al., Australia | Qualitative: semi-structured interviews | Dietitians (n = 32) | To examine how New South Wales public hospital dietitians perceive their workplace and its influence on their ability to function as healthcare professionals | ***** | Relationships were described as a source of value across all career stages, and particularly important for specialist dietitians and mid-career dietitians                                                                 |                                                                                                           |
| Morley et al., Canada | Qualitative: discussion groups (telephone) | Dietitians (n = 22) | To develop guidelines for client-centred nutrition education | *** | A model for collaborative client-centred nutrition education was developed and described in the context of ‘fostering collaborative relationships with clients’                                                                                                       | Collaborative client-dietitian partnerships are integral to helping clients find ways of eating, feeding or thinking about food that are actionable and consistent with their lives |
| Morris et al., UK | Qualitative: semi-structured interviews (telephone) | Patients (n = 20) | To explore and describe the renal patient’s perspectives of the dietitians’ different communication styles, and to qualitatively evaluate which approaches provide the best level of patient satisfaction when engaging with dietetic services | ***** | The ‘adult-adult ego state’, experienced as a helpful engagement style, showed evidence of improved relationships when dietitians employed good counselling skills Risks were identified for the relationship if the ‘parent-child dynamic’ dominates the client-dietitian relationship | ‘Effective partnership’ was identified as a subtheme of the main theme ‘helpful engagement style’ The suggestion was made that prescription interventions should be consciously chosen with caution, awareness and sensitivity by the dietitian to not inhibit further |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Murray et al., 78, Australia | Quantitative—randomised controlled trial (secondary analysis): ratings of observed practice | Clients ($n = 307$) Dietitians ($n = 29$) | To explore whether therapeutic alliance improved after dietitians were trained in eating as treatment | *** | No effect of the intervention (eating as treatment) was found on dietitian-rated alliance ($p = 0.237$) Patient-rated alliance was 0.29 points lower after intervention training ($p = 0.016$) No specific motivational interviewing techniques predicted patient-rated alliance Dietitian acknowledgement of patient challenges was related to dietitian-related alliance ($β = 0.15$, $p = 0.035$), and described as being worthy of inclusion in future efforts to develop a therapeutic alliance | Higher literacy levels of the client might contribute to a more equal partnership with the dietitian rather than a parent–child dynamic Good rapport forms part of the foundation needed for a directive message to be well received Communication and collaboration Relationships were described as building from collaborative power-sharing between the client and dietitian, and problematic relationships were described when consultations are dietitian-centred The potential of the client's amount of disposable income, food preparation skills and family commitments was suggested as having the potential to diminish the relationship |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT | Key findings related to primary terms | Key findings related to associated terms |
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| Nagy et al., Australia | Quantitative—descriptive: ratings of observed practice | Health coaches (n = 2) Study participants (n = 50) | To explore relationships between therapeutic alliance and various contextual factors in health coaching sessions held within a weight loss trial | **** | No evidence was identified to suggest therapeutic alliance was improved by training dietitians in motivational interviewing | The need to further explore motivational interviewing and its impact on therapeutic alliance was identified, specifically using appropriate and sensitive alliance measures |

The session duration was significantly correlated with ‘Bond’ scores ($r = 0.42, p = 0.002$). The suggestion that spending more time in a session appears related to increased bonding (a key component of therapeutic alliance) was made. Participants who had completed preparatory exercises had significantly higher total alliance ($F(2,47) = 4.88, p = 0.012$), ‘Goal’ ($F(2,47) = 6.76, p = 0.003$) and ‘Task’ scores ($F(2,47) = 4.88, p = 0.012$). The suggestions that preparatory work may help build therapeutic alliance and agreement on goals appears to influence follow-up completion were made.
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Nagy et al., Australia | Qualitative: Semi-structured interviews (online and telephone) | Dietitians \( n = 22 \) | To explore dietitians’ perspectives of how they develop meaningful relationships with clients in the context of lifestyle-related chronic disease management | **** | Conceptual model of relationship development from the dietitians’ perspective was developed. The model shows that from the dietitian’s perspective, relationship development appears complex due to the dietitian’s role of simultaneously managing both the direct interaction with their client and other influences. The model consisted of three main categories 1. ‘Sensing a Professional Chemistry’ (an apparent natural ‘chemistry’ important for relationship development) 2. ‘Balancing Professional and Social Relationships’ (two relationships existing, one that focuses on the roles of ‘professional’ or The category ‘Sensing a Professional Chemistry’ arose from dietitians’ descriptions of good relationships, where ‘gelling’, ‘clicking’, ‘connection’, ‘subconscious aspect’ and ‘vibe’ were used. Dietitians further explained these terms to an extent, which included ‘rapport’ ‘Duality of developing rapport’ was identified as a thematic subcategory of the conceptual model, which refers to dietitians perceiving that developing rapport is both a natural and unnatural skill, both easy and difficult with particular clients, and should be a focus both during initial stages of interacting and throughout all interactions | Participants who completed the follow-up session scored significantly higher for ‘Goal’ compared to no follow-up \( t [20.61] = 2.29, p = 0.03 \) The suggestion that findings from this study provide future directions for research addressing the professional relationship in dietetic consultations for weight loss was made |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Notaras et al., Australia | Quantitative—descriptive: survey (paper) | Dietitians (n = 17) (pilot) Dietitians (n = 34) (second round) Dietitians (n = 50) (pre and post evaluation) | To develop, implement and evaluate an education program on improving communication and nutrition counselling skills for dietitians working in both acute inpatient and outpatient settings within the South Western Sydney Local Health District in New South Wales, Australia | **** | ‘client’, the other focuses on ‘humans’ interacting and the importance of humanity) 3. ‘Managing Tension with Competing Influences’ (relationship development can be influenced by factors unrelated to their direction interaction e.g. physical environment) | suggestion was made that the apparent duality of rapport development may depend on the individuals within the interaction |
| Raaff et al., UK | Qualitative: semi-structured interviews (telephone) | Dietitians (n = 18) | To explore dietetic views, attitudes and approaches to weight management appointments with preadolescent children | **** | Dietitians identified the importance of building relationships with paediatric clients | Dietitians identified the importance of building rapport with paediatric clients (as part of subtheme ‘dietitian verbally engages the child in the conversation’). Establishing rapport with the child from the beginning of the |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Russell et al., USA | Quantitative—descriptive: survey and ratings of observed practice | Students \( (n = 7) \) | 1. To assess untrained graduate students in nutrition on their application of a set of 31 specific clinical skills for resolving dietary adherence problems 2. To describe the procedures for and feasibility of the evaluation program | * | Very few students demonstrated possession of listening skills These findings were described as ‘concerning’ due to these skills being crucial to establishing the collaborative relationship needed for effective counselling | Describing interviewing skills identified in the study as being crucial to developing rapport |
| Sharman et al., Australia | Qualitative: semi-structured interviews (telephone) | Dietitians \( (n = 14) \) | To explore in detail dietitians' perceptions of the interviewing process, the degree to which this is challenging and the nature (if at all) of any challenges involved in conducting investigative interviews with children | ***** | Strategies were identified to overcome disengagement from paediatric clients and build rapport with them Focusing on rapport, rather than in-depth questioning, was identified as a strategy to ensure paediatric clients' engagement in consultation |
| Sladdin et al., Australia | Qualitative: semi-structured interviews (telephone) | Clients \( (n = 11) \) | To explore patients' experiences and perspectives of patient-centred care in individual dietetic consultations | ***** | ‘Fostering and maintaining caring relationships’ was identified as a main theme involving developing a holistic understanding of the client, being invested in the client's wellbeing and possessing caring qualities Clients who experienced caring relationships with their dietitian suggested a desire to continue their relationship, thus the importance of caring | A participant described having a partnership with their dietitian (forming part of major theme ‘fostering and maintaining caring relationships’) |

(Continues)
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Sladdin et al., Australia | Quantitative—descriptive: survey (mail) | Clients ($n = 133$) Dietitians ($n = 180$) | To compare patients' and dietitians' perceptions of patient-centred care in dietetic practice *** | | Patients reported significantly lower scores compared to dietitians for their perceptions of a caring patient-dietitian relationship ($p = 0.009$) | Establishing a shared understanding at the beginning of the consult may help foster collaboration between patients and dietitians |
| Author, Country | Design                  | Participants, sample size | Study aim/s                                                                 | MMAT* | Key findings related to primary terms                                                                                                                                                                                                 | Key findings related to associated terms                                                                 |
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| Sladdin et al., Australia | Quantitative—descriptive: interviews and survey | Dietitians (n = 10, interviews) Dietitians (n = 180, survey) | To develop and test a dietitian-reported inventory to measure patient-centred care in dietetic practice | ***   | 'Patient-dietitian relationship' identified as component of conceptual model of patient-centred care, described as ‘a genuine, reciprocal relationship… based on trust, respect, rapport building and mutual understanding’ Fifth factor of developed inventory identified as ‘caring patient-dietitian relationships’ |                                                                                                                                                                      |
| Stetson et al., USA       | Quantitative—descriptive: ratings of observed practice | Dietitians (n = 30) Clients (n = not specified) Complete recordings (n = 29) | To assess the teaching and adherence promotion skills of dietitians in routine clinical practice | **    | Dietitians were described as using accepted strategies for developing and maintaining good interpersonal rapport with patients                                                                                                           |                                                                                                                                                                      |
| Sullivan et al., USA      | Quantitative—descriptive: survey (mail)                   | Internship directors (n = 66) | To determine internship directors’ expectations for preparedness of entering interns and the emphasis given to preparation for both nutrition education and nutrition counselling in internship programs. The directors’ perceptions of the need for students to have advanced preparation in these areas after the | *     | 'Uses helping skills and develops a trusting relationship with client’ was listed as a knowledge/skill area questioned in survey Results for internship directors’ expectations for intern preparation in nutrition education and counselling knowledge/skills (as percentage): pre-internship preparation; |                                                                                                                                                                      |
| Author, Country | Design | Participants, sample size | Study aim/s | MMAT* | Key findings related to primary terms | Key findings related to associated terms |
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| Sullivan et al., 89 USA | Quantitative—descriptive: survey | Dietitians (n = 40) | To examine overall job satisfaction and specific domains of job satisfaction among renal dietitians | *** | The most commonly named positive aspects of working as a renal dietitian consisted of ‘developing long-term relationships with patients’ (33% of respondents) | |
| Sussmann, 90 UK | Qualitative: semi-structured interviews (face-to-face) | Patients’ and patients’ partners (n = 8) | To examine the difficulties faced by renal dialysis patients on a restricted diet and to ascertain how the dietitian can most effectively help patients deal with these difficulties | ***** | The suggestion that findings support the argument for mutually cooperative, genuine and personal relationships was made | The recommendation that dietitians develop a friendly and supportive relationship to facilitate a trusting relationship was made |
| Taylor et al., 91 Canada | Survey (online and mail) | Dietitians (n = 349) | To elicit registered dietitians’ beliefs, guided by the theory of planned behaviour, regarding using a nutrition counselling approach in their daily practice and describe variables influencing registered dietitians use of Nutrition Counselling Approach in their practice | ** | The approach used in the study, named as the ‘nutrition counselling approach’ was described as a ‘collaborative counsellor-client relationship’ | Dietitians perceived improved collaboration between them and their patients as an advantage of a particular counselling approach (nutrition counselling approach) |
| Trudeau and Dube, 92 Canada | Survey (mail) | Clients (n = 49) | ** | A tested component of dietary counselling was | |

a Key findings related to primary terms

b Key findings related to associated terms
| Author, Country   | Design                                      | Participants, sample size | Study aim/s                                                                 | MMAT*                                                                 | Key findings related to primary terms                                                                 | Key findings related to associated terms                                                                 |
|------------------|---------------------------------------------|---------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Warner et al., 93 | Qualitative: semi-structured interviews (telephone and face-to-face) | Clients (n = 21)          | To describe the patients' acceptability and experiences of a telehealth coaching intervention using telephone calls and tailored text messages to improve diet quality in patients with stage I-IV Chronic Kidney Disease | ****                                                                 | 'Valuing Relationships' identified as one of five major themes consisting of subthemes: receiving tangible and perceptible support, Building trust and rapport remotely, Motivated by accountability, Readily responding to a personalised approach, Reassured by health professional expertise | 'Building... rapport remotely' identified as subtheme of major theme 'valuing relationships' Individualised text messages were found to 'enhance participant-clinician interactions' (between dietitian as telehealth coach and participant) |
| Whitehead et al., 94 | Quantitative—descriptive: survey (mail) | Dietitians (n = 1158)       | 1. To ascertain dietitians' experiences of, and views                        | **                                                                      | Post-registration training had been undertaken by 73% of                                                    | (Continues)                                                                                           |
| Author, Country   | Design                                                                 | Participants, sample size                                      | Study aim/s                                                                 | MMAT** | Key findings related to primary terms                                                                 | Key findings related to associated terms |
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| Whitehead et al., UK | Mixed methods: ratings of observed practice, survey and interviews | Dietitians (n = 15) (Face and content validity)                | To develop a short, easy-to-use, reliable, valid and discriminatory tool for the assessment of the communication skills of dietitians within the context of a patient consultation | ***    | A transition from a ‘relationship-building’ phase to ‘advice-giving’ phase in a dietetic consultation was described | 'Establishes rapport' was perceived to be important and thus was included in the developed communication tool. Observations from interviews suggested that most dietitians established rapport but did not maintain rapport throughout the consultation. Rapport was lost when dietitians moved onto the more dietetic-specific content of the consultation. |
| Williamson et al., USA | Quantitative—descriptive: interviews (telephone)                    | Dietitians (n = 75)                                           | 1. To identify factors that contribute to barriers to dietary adherence in individuals with diabetes identified in a 1998 study 2. To obtain recommendations from registered dietitians for overcoming the barriers | *      | 'Building rapport' was identified as a common recommendation for overcoming barriers to dietary adherence in individuals managing diabetes |                                           |
| Yang and Fu, Malaysia | Quantitative—descriptive: survey (online and paper)                 | Dietitians (n = 69)                                           | 1. To determine the clinical dietitians' empathy level in Malaysia            | ***    | Suggested that the dietitian’s capability in expressing empathy will influence the development of ‘good’ |                                           |
and ratings of observed practice ($n = 7$). One study involved a secondary analysis of control and intervention data from a randomised controlled trial. Qualitative study designs mostly utilised interviews ($n = 26$) and focus groups ($n = 9$). Most studies were conducted in Australia ($n = 27$) or the USA ($n = 18$), and published between 2010 and 2020 ($n = 50$). Most studies had between 11 and 395 participants ($n = 66$) which included dietitians or nutritionists ($n = 47$), clients or patients, and their family or carer ($n = 25$), or nutrition and dietetic students ($n = 11$). Dietitians in the studies were working in private practice ($n = 12$), hospitals and outpatient clinics ($n = 13$) and community or public health services ($n = 6$). From the studies that articulated the health conditions of clients, most were described as managing chronic diseases ($n = 14$). A summary of included studies is provided in Table 1. Studies varied in their methodological quality (Table 2). The number of studies that fulfilled all five design-specific criteria in the MMAT was 31 (of 76 eligible studies), with most being qualitative ($n = 25$).

Five themes were identified across both analyses, which pertained to the primary terms (‘relationship’ and ‘alliance’) and associated terms (e.g., ‘connection’). The themes showed that the therapeutic relationship: (i) is valued within clinical dietetic practice, (ii) involves complex and multifactorial interactions, (iii) is perceived as having a positive influence, (iv) requires skills training, and (v) is embedded in practice models and tools. The findings are described below by theme and whether they correspond to primary terms or associated terms.

The first theme reflected the finding that the therapeutic relationship appears important and valued by both parties as a component of the clinical dietetic consultation. This was mostly seen within qualitative findings; however, was also reported from quantitative and mixed methods findings. For example, Sladdin et al. undertook semi-structured interviews with patients to explore their

| TABLE 1 (Continued) |  |
|----------------------|------------------|
| Author, Country | Design | Study aims/s | Participants, sample size | Participants, sample size | Participants, sample size | Key findings related to primary terms | Key findings related to associated terms |
| Yang et al., Malaysia | Quantitative—descriptive: surveys | 1. To investigate the empathy level of dietetic interns at selected primary and tertiary health-care settings through self-reported measures and patient perception 2. To determine the association between both measures | Dietetic interns ($n = 57$) | Clients ($n = 99$) | Suggestion that further research should consider the duration of the interaction between clients and dietetic interns as impacting the extent to which dietetic interns can demonstrate empathy | 2. To determine the factors associated with the dietitian’s level of empathy |

| TABLE 2 | The proportion of quantitative, qualitative or mixed method studies ($n = 76$) meeting a number of criteria specified within the Mixed Methods Appraisal Tool

| MMAT* | Number of criteria met | $n$ (%) |
|-------|------------------------|--------|
| 0     | 2 (3)                  |        |
| 1     | 7 (9)                  |        |
| 2     | 10 (13)                |        |
| 3     | 20 (26)                |        |
| 4     | 6 (8)                  |        |
| 5     | 31 (41)                |        |

*Mixed Methods Appraisal Tool.
| Attributes          | Facilitators                                                                 | Barriers                                                                 |
|---------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Dietitian-related  | Genuineness, Supportiveness, Caring, Positivity, Enthusiastic, Empathic,     | ‘Unhelpful engagement style’: patronising tone, not listening to patients’ needs, biochemical agenda, instructive advice giving, overbearing support Manipulative Dishonest Anxious Lacking confidence |
| factors             | Understanding, Respectful, Having integrity, Invested in client’s wellbeing, |                                                                         |
|                     | Friends, Friendliness, Non-judgemental, Openness, Dress                     |                                                                         |
|                     |                                                                             |                                                                         |
|                     |                                                                             |                            Individualising recommendations Organising content Quality of introduction Clarifying reason for referral early in consultation Clarifying client’s understanding of role of diet Using theories and models of behaviour change Explanation of health consequences to client Developing rapport Mode of communication (e.g., telephone calls) Communication skills: using advanced-level language and visual means, listening skills, questioning and reflection, warmth, courtesy, attentiveness Acknowledging client’s challenges Self-disclosure Holistic understanding of client Asking client evaluative questions Respecting the client’s expertise Using knowledge effectively with clients Clarifying dietetic approach Enabling client choice in continuing relationship Prioritising relationship in the first consultation Expressive touch Specific named approaches: ‘Healthy Conversation Skills’ intervention, Narrative Dietary Counselling (use of whiteboards and narrative learning strategies), ‘Counselling and Therapeutic’ approach |
|                     |                                                                             |                            Sub-optimal counselling skills Creating parent-child dynamic Leading practitioner-centred consultation from parental ego state Expressive touch |
| Client-related      | Completing preparatory work for consultations Attending follow-up consultations Respect for dietitian Client response to dietitian interaction: feeling prioritised, heard and remembered, comfortable, engaged, empowered, an important individual, motivated by sense of accountability, having received personalised care, reassured by expertise of dietitian | Poor perception of dietitian: lacking integrity, untrustworthy Unrealistic expectations of diet Prejudices and assumptions Openness to disclosing eating behaviours |
| factors             |                                                                             |                                                                         |
perspectives of patient-centred care and concluded that ‘patients want to have caring relationships with dietitians’. Descriptors of the type of relationship valued by dietitians and clients included ‘caring’, ‘genuine’, ‘positive’, ‘supportive’ and ‘ongoing’. However, a qualitative study described few clients perceiving that an ‘ongoing’ relationship would be useful in the context of type 2 diabetes management, based on the content and delivery of initial consultations attended. Authors specified that this was the case for clients who were both satisfied and unsatisfied with their consultation; however, only specified a reason for those that were satisfied. Authors described these clients as perceiving that they had obtained the information they needed and did not perceive the need for an additional consultation. Hence, the majority of data indicated that the client-dietitian relationship is valued but one study found clients with diabetes did not view an ongoing relationship as being of value.

The importance of the client and dietitian establishing a ‘connection’, ‘rapport’, ‘partnership’ and ‘collaboration’ was apparent, reflected through the descriptors ‘essential’, ‘critical’ and ‘important’. One study that used qualitative interviews with dietitians about their weight management practice with children found that establishing rapport in initial interactions with paediatric clients was particularly important.

The second theme reflected the complex and multifaceted nature of the therapeutic relationship between clients and dietitians that was apparent from the identification of multiple factors and their influence on the relationship within numerous studies. This finding is typified by the description of the relationship as a ‘complex interpersonal experience’. The majority of factors appeared to be either attributes of the dietitian or client, techniques used by the dietitian or contextual factors (e.g., setting). Factors specific to either the dietitian or client are summarised in Table 3. Some examples include the dietitian being trustworthy and respectful, and the client’s expectations of the consultation. Three contextual factors were identified; the type of care setting where the client-dietitian interaction occurs, the duration and frequency of interactions, and documentation requirements for the consultation. For example, two qualitative studies described long-term care (vs. acute care) and private practice settings as conducive to relationship development.

Factors were identified as influencing the ‘rapport’, ‘connection’, ‘collaboration’, ‘partnership’ and ‘interaction’, which were also specific to either the dietitian or client, or the context of their interaction (Table 4). Most factors were similar to those identified from the analysis of primary terms, however, some differed. For example, perceiving the dietitian as approachable and sensitive was thought to facilitate collaboration and rapport building. Contextual factors described were specific to developing a ‘connection’, ‘rapport’ and ‘therapeutic interaction’. These included the amount of allocated time for the consultation as determined by the workplace (that is having more time facilitated rapport building) and having a patient-centred physical environment where consultations occurred (e.g., ‘neutralising hierarchy’ by removing physical barriers such as a desk). Qualitative studies that explored dietitians’ perspectives identified that dietitians felt pressure from physicians to prioritise addressing clients’ health rather than building rapport, and consequently spent less time focusing on rapport, and that the private practice context was a ‘motivator’ to develop rapport with clients. Reasons for this included maintaining their professional reputation and source of income. Another qualitative study that explored preferences of clients managing coeliac disease described clients preferring to engage with the same dietitian over repeated consultations. This was explained as assisting with rapport development.

The third theme indicated that a good therapeutic relationship appears to have a positive influence on clients and dietitians. Most findings were qualitative and taken from dietitians and clients’ perspectives expressed through semi-structured interviews. For example, Morris et al. explored renal patients’ perspectives of dietitians’ communication styles and found that a ‘good working relationship’ facilitated patients ‘feeling good’ about themselves. No studies were identified that analysed the statistical impact of the strength of the therapeutic relationship on tangible outcomes (such as improved diet quality scores) and as a result, the apparent positive influence of a good therapeutic relationship appears based on the perspectives of clients and dietitians only.

Findings pertaining to ‘rapport’, ‘interaction’, ‘connection’ and ‘partnership’ also mostly came from qualitative interview data. Perceptions of a positive influence on client’s attendance and adherence to the treatment plan were described within several studies. For example, findings from a mixed methods study in an Indigenous Australian context described establishing a ‘personal connection’ as encouraging patients to attend their appointments. Developing rapport was reported within qualitative studies as influencing clients’ thoughts and feelings, specifically their trust and respect for the dietitian and confidence in engaging with the dietitian. For example, results from a qualitative study that explored clients’ and dietitians’ perceptions of trust across multiple healthcare settings found that dietitians ‘aimed’ to build rapport to ‘gain’ the trust and respect of their client.
| Associated term | Facilitators | Barriers |
|-----------------|--------------|----------|
| Attributes      | Rapport      |          |
|                 | Approachable |
|                 | Friendly     |
|                 | Sensitive    |
|                 | Relaxed, comfortable and natural |
|                 | Confident    |
|                 | Non-judgemental |
|                 | Genuine      |
|                 | Unconditionally accepting |
|                 | Empathic     |
| Collaboration   | Sensitive    |
|                 | Aware        |
| Techniques      | Rapport      |          |
|                 | Humour       |
|                 | Immediacy    |
|                 | Facilitating client autonomy |
|                 | Giving clients opportunity to ask questions and express concerns |
|                 | Applying a person-centred approach |
|                 | Individualising instructions |
|                 | Putting client at ease |
|                 | Interviewing skills |
|                 | Layering advice |
|                 | Attending to client's non-verbal communication |
|                 | Socratic interview style |
|                 | Self-disclosure |
|                 | Using continuing responses |
|                 | Shared decision making |
|                 | Communicating interest in patient's dietary problems |
|                 | Active listening: paraphrasing, restating, verbal and non-verbal encouragement, silence, reflecting feelings |
|                 | Introductions |
|                 | Gradually directing more specific enquiries |
|                 | Asking client about their preferences |
|                 | Changing questioning approach to prioritise rapport development |
|                 | Providing feedback and social support |
|                 | Verbal and non-verbal communication skills |
|                 | Expressive touch |
|                 | Verbal and non-verbal communication skills |
|                 | Establishing shared understanding at beginning of consultation |
|                 | ‘Narrative Dietary Counselling’ (specific approach named in study): narrative learning strategies including use of whiteboards |
|                 | ‘Nutrition Counselling Approach’ (specific approach named in study) |
| Collaboration   |             | Interrupting client through verbal or non-verbal behaviour |
| Partnership     | Desirable communication style |
|                 | Working as a team |
|                 | ‘Counselling and Therapeutic Approach’ (specific approach named in study) |
| Interaction     | Applying a person-centred approach |
|                 | Sending individualised text messages |
The fourth theme showed that therapeutic relationship development seems to be a valued component of training for dietitians, and should be a skill dietitians are trained in. This was identified across three areas: (1) the inclusion of relationship development skills in training programs, and findings describing (2) training adequacy and (3) the impact of training. Several studies described training programs for students and dietitians that focused on, or included components of relationship development. One study described a training program designed to teach ‘relationship-establishing skills’ to nutrition students and thus appeared focused on the relationship itself. In contrast, other studies listed the relationship as a component of training programs but often focused on different skill aspects of relationship development, such as counselling or communication skills. Factors contributing to relationship development were articulated as part of these training programs and reflected those identified in the second theme (e.g., listening skills). One study surveyed dietetic internship directors and reported that 73% thought students’ preparation in developing a trusting relationship was adequate, while 19% indicated more training was needed (from a total sample of 66). Results concerning the impact of dietitians’ training on the relationship varied. In a quantitative survey, post-registration training was reported as contributing to improved relationships by 90% of dietitians surveyed. Unfortunately, details of the type of training were not elaborated upon. Results from a mixed methods study suggested clients who engaged with dietitians trained in a particular program identified as being helpful in building relationships, felt ‘more supported’ than clients whose dietitian had not undertaken this training. In addition, a non-randomised cross-sectional study reported findings that students trained in relationship-building skills displayed different verbal behaviours that were conducive to relationship development (e.g., responses that facilitated trust), compared to those students who were not trained. These studies seemed to suggest a positive influence of training, but the aspects of the relationship that improved were often unclear. A secondary analysis of data from a stepped-wedge cluster-randomised controlled trial that evaluated the impact of motivational interviewing-based training on clients’ and dietitians’ ratings of therapeutic alliance found no evidence that motivational interviewing-based training supported improvements in therapeutic alliance.

The value of dietitians’ training was also evident with regard to building ‘rapport’ and the ‘therapeutic interaction’. A quantitative survey found dietitians felt adequately trained in rapport building in the context of eating disorder management. In contrast, a qualitative study found dietitians working in public hospitals and private clinics in Israel did not feel adequately trained in managing ‘emotional aspects’ of the therapeutic interaction. In addition, three quantitative studies presented data on nutrition students’ rapport building skills after undergoing training. Two studies found that students’ skills in rapport building did not improve post training, and one study reported that students’ rated their rapport-building skills as more proficient than their assessors. An Australian study found that competency standards had evolved to focus more on dietitians ‘collaborating’ and ‘negotiating in partnership’ with clients, further highlighting the need for dietitians to be trained in relationship building skills.

The fifth theme indicated that the therapeutic relationship was embedded to varying degrees throughout practice models and assessment tools for clinical practice. The development of a conceptual model and inventory for assessing patient-centred care was described by one quantitative study, which included establishing a genuine, caring and reciprocal therapeutic relationship. A mixed methods study articulated ‘relationship-building skills’ as the first step in a process model for nutrition education and counselling. Another mixed methods study described the development of the DIET-COMMS tool for assessing dietitians’ communication skills with clients. Unlike earlier models described, the therapeutic relationship was not the specific focus of the DIET-COMMS tool, nor was it an explicit component. Instead, the authors described the tool as a response to the relationship being at the core of the ‘Nutrition and Dietetic Process’, which may suggest the DIET-COMMS tool was developed to address some relationship development skills (i.e., communication skills specifically).

‘Rapport’, ‘partnership’ and ‘collaboration’ were embedded as components of assessment tools and practice models. ‘Rapport’ formed part of two different assessment tools, one that evaluated dietitians’ interviewing skills and another that evaluated their communication skills. Rapport was also described as part of a nutrition-counselling model and trialled within a scale that measured dietitians’ confidence working with clients managing psychological conditions. ‘Partnership’ and ‘collaboration’ were identified as components of models for both communication and nutrition education in two different studies by the same authors.

4 | DISCUSSION

This integrative literature review provides a comprehensive overview of the topic of the therapeutic relationship between clients and dietitians in the individual...
The therapeutic relationship appears to be a valued component of clinical dietetic practice and is perceived to have a positive influence on clients and dietitians. This was evident from mostly qualitative data describing dietitians’ and clients’ perspectives, and aligns with the philosophies of patient-centred, and relationship-centred healthcare paradigms. These findings are consistent with other healthcare literature that also emphasises the importance of client-practitioner relationships, particularly with regard to improved health outcomes for clients. Within psychotherapy, a multilevel longitudinal meta-analysis by Flückiger et al. concluded that the therapeutic alliance, a recognised component of client-practitioner relationships, is a ‘critical therapeutic element’. Flückiger et al. confirmed robust findings from previous meta-analyses that have shown the therapeutic alliance accounts for approximately 7% of the variance in therapy outcomes across therapy types and study designs. Although modest, Flückiger et al. describe this relationship between therapeutic alliance and therapy outcomes as greater than those of other treatment variables, such as the therapist’s adherence to the treatment manual. Hence, psychotherapy research has clearly identified and quantified the importance of the therapeutic alliance in relation to its positive impact on various treatment outcomes.

Interestingly, the current review did not identify any studies that quantitatively analysed the strength of the therapeutic relationship with tangible outcomes for clients in a dietetic context (such as diet quality scores). Unlike psychotherapy, this review has shown that the value of the therapeutic relationship and its positive influence on clients and dietitians appears to mostly come from qualitative data describing clients’ and dietitians’ perspectives. The extent of the research undertaken in psychotherapy highlights that substantial quantitative data that describes therapeutic relationship strength is lacking, and furthermore to what extent relationship strength accounts for client’s therapeutic outcomes. Hence, there is a need for observational studies that assess the strength of these relationships in clinical dietetic practice from multiple perspectives (client, dietitian and observer) and their associations with client outcomes. For example, this could include investigating the correlation between client-rated relationship scores and their levels of motivation or self-efficacy. Quantitative data of this nature, that is alliance-outcome data, would assist the profession in better understanding how the therapeutic relationship may impact client’s health outcomes and support existing qualitative descriptions of the relationship’s positive influence.

A starting point for dietetics may be to focus on psychotherapist Bordin’s ‘working alliance’ which captures several components of therapeutic alliance. Key factors of the client–dietitian relationship identified in this review reflect Bordin’s conceptualisation of the therapeutic alliance which articulates three components: (1) agreement on goals between therapist and client, (2) agreement on tasks to achieve the client’s goals, and (3) their bond. For example, this review has identified clients’ unrealistic expectations of dietary change as a factor impacting relationship development, which can be interpreted as reflecting Bordin’s ‘Agreement on Goals’. If a client has unrealistic expectations about the extent to which they can change their diet, it may be more difficult for the dietitian and client to agree on the client’s goals. According to Bordin, this would impact the extent to which they can develop a strong alliance. The current review has identified several relationship factors that are consistent with Bordin’s conceptualisation of the therapeutic relationship. Of course, additional research is needed since the nature and importance of therapeutic relationships for health outcomes may be different in a dietetics context compared to a clinical psychology or psychotherapy context. Measures to assess the therapeutic alliance (e.g., Working Alliance Inventory) have been used in one dietetics context already and other allied health disciplines. The ‘Working Alliance Inventory’ has been adapted for use in other disciplines, such as physiotherapy. This tool consists of 32 items, such as ‘the client and therapist feel they trust one another’. Additional research is needed to assess the validity and reliability of this tool in dietetics, but it appears a feasible measure for the profession to begin to collect alliance-outcome data. This tool may also be useful for clinical dietitians to use within clinical supervision sessions to guide critical reflective practice and assist dietitians in articulating nuanced components of relationship development they feel they are doing well or could improve.
Findings from this review also provide some guidance as to what client outcome measures may be helpful to examine. Establishing a good ‘relationship, ‘connection’ or ‘rapport’ were identified from primarily qualitative data as being important for treatment adherence, attendance and gaining the client’s trust and respect. Thus, the relationship between therapeutic alliance and attendance and/or treatment adherence may be useful outcomes. Client engagement, how they felt about themselves and their ability to self-manage their diet were also identified in the review.

Studies from other allied health disciplines have applied the Working Alliance Inventory\textsuperscript{105} to assess the impact of the therapeutic alliance on client outcomes. For example, Sønsterud et al. evaluated whether the therapeutic alliance between clients and speech therapists correlated with clients’ motivation as part of stutter therapy.\textsuperscript{109} A systematic review by Hall et al. also identified multiple studies that assessed whether the therapeutic alliance is related to client outcomes in a physiotherapy context. Hall et al. identified studies that also examined treatment adherence and satisfaction as outcomes.\textsuperscript{108} The findings reported here and those from other allied health disciplines suggest that clients’ attendance, as well as self-efficacy and motivation, might be useful outcome measures to begin to examine to support existing qualitative data in dietetics. Longitudinal designs would be useful in assessing how relationship quality may change over a treatment period and therefore how this may impact longer-term health outcomes.

There are strengths and limitations of this integrative literature review. The therapeutic relationship is a challenging, ‘broad and complex’ construct.\textsuperscript{13} In order to capture this complexity, a comprehensive review was achieved by applying a systematic and healthcare-specific method.\textsuperscript{12} In doing so, a number of search terms that reflected the therapeutic relationship (other than ‘relationship’ itself) were included. Several sources were searched, resulting in 76 included studies that were conducted in a variety of countries and employed different study designs. Despite this, grey literature was not searched and therefore some data concerning the therapeutic relationship is likely to have been missed. It is also plausible that despite every effort to ensure a comprehensive search strategy, some applicable studies may not have been retrieved.

To conclude, empirical literature recognises and discusses the therapeutic relationship between a client and dietitian to an extent, both explicitly and through other similar terms. A variety of studies support a good therapeutic relationship as a valued and multifactorial component of clinical dietetic practice that is perceived to positively influence the client and dietitian. There are limited descriptions of how the relationship exists in everyday clinical practice and the extent to which relationship strength might contribute to clients’ health outcomes. Data describing how dietitians are trained and assessed in relationship-development skills and the impact of this training is also limited. Observational studies are needed to assess the extent to which the therapeutic relationship might be associated with health outcomes specific to dietetic interventions, and further support the data identified in this review.

**CONFLICT OF INTEREST**

The authors wish to declare no conflicts of interest.

**AUTHOR CONTRIBUTIONS**

AN, AM, LT and FD contributed to the study conceptualisation and design. AN undertook the literature search, and extracted and analysed data. AN, AM, LT and FD contributed to data analysis. AN developed the manuscript for publication, and AM, LT and FD critically reviewed the manuscript prior to submission. All authors are in agreement with the manuscript.

**DATA AVAILABILITY STATEMENT**

Data sharing is not applicable to this article as no new data were created or analyzed in this study.

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