別紙資料9 関連学会における発表内容

(1) The 8th Asian Congress of Dietetics 第8回 アジア栄養士会議
 令和4年8月19日~21日(横浜市) 3 演題

	The 8th Asian Congres	s of Dietetics	Poster 2-2
	•		in 10 Years as Dietitians on their Aimed Position?
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т	he authors have no fina	ancial conflicts of interest to d	isclose concerning the study.
aim for in 1 Methods: F governmen Results: Ca governmen	0 years. From January to March 20 Its. tegories for skill improven Its are as shown in the Tab	21, we conducted a web survey for nent and what to aim for 10 years ole (below).	cill improvement and what they should or dietitians working in Japanese local s as dietitians working in local
Aimed position	Organization where partic Prefectures (n=451)	Cities with public health centers	Municipalities (n=1031)
Staff	 Resident support Multidisciplinary collaboration Demonstrate expertise Responding to current needs Human resource development 	 (n=323) ✓ Understanding of public health center dietitians ✓ Responding to current needs ✓ Non-specialized knowledge ✓ Multidisciplinary collaboration 	 ✓ #Resident support ✓ Promoting business and producing results ✓ Multidisciplinary collaboration ✓ Participation in training
Supervisor 5	 ✓ Broad overview ✓ Business evaluation ✓ Activities of dietitians ✓ Visualization of results 	 ✓ Multidisciplinary collaboration ✓ Experience in various departments ✓ Acquisition of knowledge ✓ Visualization of results 	 ✓ Participation in training ✓ Resident support ✓ Diverse experience ✓ Business development Multidisciplination
Managers	 Wide field of view Business evaluation Success of dietitians Visualization of results 	 Support from other organizations Non-specialized knowledge Experience in various departments Training of juniors 	 ✓ Wide perspective ✓ Collaboration with other occupations ✓ Planning and implementation of budgets and measures ✓ Efforts for the future ✓ A reliable and valuable resource for residents

improvements and human resource developments depending on the position they aimed for. Therefore, we suggested that it is desirable to develop a human resources development program for administrative dietitians according to the position they desire to achieve (nutrition specialist or public health generalist).

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Learning Needs of Public by Years of Experience in Hea				
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8 Seto Health Center, Aichi Prefecture, Japan 9 Department of Human Life Science, Osaka City University, Japa	an			
beparament of Human Life Science, Osaka City Oniversity, Japa				
No conflicts of interest to	be declar	red.		
Objectives: The aim of this study was to assess the learning need experience in health promotion.	as of public h	ealth dieti	tians by years	of
experience in health promotion. Materials & Methods: A web-based survey was conducted in 202 promotion in prefectures, cities of cabinet order (cities), and munic Results: Of the 1,806 respondents, 1,649 were included in the an	21 among pul cipalities thro	blic health	dietitians for h	
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OR: odds ratio, CI: confidence interval * Binary logistic regression analysis

Conclusion: It was suggested that public health dietitians in the mid-career and leadership periods have learning needs to be both specialists and generalists.

Keywords: dietitians, local governments, public health nutrition, training program, learning needs



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Poster 10-21

Results of Organizational an Organizational Survey for the Development of Human Resources Training Program for Dietitians Working in local Governments

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Objective: Develop a human resources development program according to the desired position based on the actual situation of human resources development of local governments. Methods: In November 2021, a survey was conducted on the human resources training program for

dietitians working in local governments for the departments in charge of hygiene in 47 prefectures and 108cities (including special wards) with public health centers.

Results: The current status of human resource development in local governments is as shown in the table (below).

	Numb	Manuals and guidelines for human resource development						ent	
local governments	er of collec tions	or in progress	Utilization operation system has been established		There are operational issues		Conforms to local dietitian business guidelines		Set evaluation method
47prefectures	40	18(45%)	%) 13(33%)		17(43%)		16(40%)		10(25%)
108cities (including special wards) with public health centers	75	23(31%)	14(19%)	4(19%) 15(20%)		19(25%)		18(24%)	
	Numb	Implementati	Organizational efforts for human resource development						velopment
local governments	er of collec tions	resource development training	Dispatch training	w	bb rotation vithin the nunicipality	Gradua school admissi support system	ion	Promotion examination system	Personnel exchange system
47prefectures	40	30(75%) New term 26 Mid-level 14 Management 3) 32(80%)		8(20%)	16(40%)		4(10%)	11(28%)
108cities (including special wards) with public health centers	75	31(41%) New term 22 Mid-level 8 Management 3) 32(43%)	2(43%) 18		18(24	%)	31(41%)	21(28%)

Conclusion: There are few local governments that are making systematic efforts to secure human resources and develop human resources, and the actual situation is also quite different among local governments.

It was found that in order for local dietitians to organize the abilities required for job titles and years of work according to individual goals, and to acquire those abilities, it is necessary to develop related systems and environments such as training systems.

Keywords: dietitians working in local governments, human resources training program, difference between local governments

(2) 第81回 日本公衆衛生学会総会

令和4年10月7日~9日(甲府市) 2演題



P15-29	10年後を見据えた新しい自治体管理栄養士養成プログラムのアウトライン 由用先生 ^{1,11} 、荒井裕介 ^{2,11} 、岡本理恵 ^{1,11} 、年田 修 ^{1,11} 、小山澄也 ^{5,11} 、進谷いづみ ^{6,11} 、田中和康 ^{1,11} 、飯田時香 ^{1,11} 、赤堀摩弥 ^{1,11} 、磯節邊枝 ^{0,11} 、諸岡 歩 ^{10,11} ¹ 大阪公立大学大学自己完善作学部定重色的半半、「零賞成立の名書大学健康科学部学業学科、全式大学医薬保健研究経営学系電源科学雑編、 ¹ 物同度大学含点完善作学部定重色的半半、「零賞成立の名書大学健康科学部生業学社、電源周辺の経営、77歳の川底立身経過大学失賞学社、 ¹ 物同県健康福祉部健康局、"新潟県南島沼保健所、 ¹¹⁰ 只專県保健医療部健康増進課、 ¹¹¹ 公衆衛生領域を中心とした自治体半量士育成プログラム開発のための研究班
目的 :10年後を見据	えた新しい自治体管理栄養士養成プログラムのアウトラインを構築する。
 1)自治体栄養 すれば良 2)現状の自約 3)中堅期以降 これらの結果を 	れまでに実施した自治体管理栄養士に対する調査結果の要点は次のとおりである。 養士の多くは、常に自身の業務に自信が持てず、疑問や問題点等を誰に相談し、解決 いのかが分からず、将来に不安を持って勤務している(自己効力感が低い)。 台体管理栄養士養成プログラムは、自治体間において相応の違いが認められる。 降のプログラムは明確な目的や方向性を持って系統的に実施している自治体が限られる。 を踏まえ、ブレーンストーミング、意見交換、先行で実施されている事例、他職種の状 整理・検討を行った。
 自己効: 確認し、 21人職種 	
スキル 2	新しく追加することが求められるプログラム ○「人材(ヒト)」「資源(モノ)」「予算(カネ)」+「情報(ネタ)」の把握と活用 ●積極的な施策立案と展開 → 受け身だけの業務展開とならないための「打ち込み論」 ○交渉力を高める → 理詰めで進める、人脈を最大限活用する、業務の見せ方、成果の見せ 方、ある種の取り引き能力
有機的に組み合わせ、 積んだことが、誰か	ら実施されている研修プログラムと、この度本研究班が提案する新たなプログラムを た内容の具体化とその試行が必要である。また、個々の自治体栄養士が努力し研鑽を らも客観的に評価される仕組みの構築も行わなくてはならない。 団体、学術団体、自治体、大学、行政機関等との役割分担を調整し、継続的な取り組 ければならない。

(3) The 22nd International Congress of Nutrition (ICN)
 第 22 回国際栄養会議 令和 4 年 12 月 6 日~11 日(東京) 1 演題

Poster Abstract Presentation | [Track 6] Public Health Nutrition and Environment | Poster Abstract Presentation [PAB(T6)]Poster Abstract Presentation

[PAB(T6)-93]A survey of the most memorable tasks or turning points performed by dietitians working in Japanese local

governments

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Keywords:dietitians working in local governments, dietary projects, self-efficacy, successful experience

Background and objectives: The number of dietitians implementing dietary projects per local government is limited. Therefore, dietitians should strive to increase their self-efficacy. Self-efficacy is based on four major sources of information: performance accomplishment, vicarious experience, verbal persuasion, and emotional arousal. In this study, we aimed to identify tasks that improved the self-efficacy of municipal dietitians by assessing their routine dietary projects.

Methods: We conducted a web survey of dietitians working in Japanese local governments from January to March 2021. We asked them to describe their most memorable tasks or turning points. The tasks were defined as a successful experience and were categorized based on the basic guidelines for health promotion and improvement of nutrition and dietary habits by the administrative dietitians in the community. Results: We received responses from 452, 323, and 1031 dietitians working in prefectures, cities with public health centers or special wards, and municipalities, respectively. The top five tasks that impressed dietitians in prefectures were establishing systems with related departments and securing human resources; establishing joint systems with municipalities; collecting and organizing municipal health checkups; collecting, organizing, and analyzing various surveys; and planning, goal setting, and evaluating. Most of the top five tasks were similar for dietitians in municipalities and cities with public health centers and special wards, including establishing nutrition education promotion network; implementing, evaluating, and improving nutritional education leading to behavior change; analyzing and clarifying challenges, planning, goal setting, and implementing nutritional education based on specific health checkups and guidance; and health promotion activity for children. However, dietitians from municipalities worked on the health promotion activity for older adults, and dietitians from the cities worked on guiding, supporting, and evaluating specific foodservice facilities. Approximately 17%-20% of the dietitians had no memorable tasks. Conclusion: The most impressive tasks for dietitians working in Japanese local governments, regardless of their working site, were multidisciplinary cooperation and implementation of projects planned by themselves. being involved in these tasks could improve the self-efficacy of dietitians working in Japanese local governments.

別紙資料10 関連学術雑誌における発表論文

Impressions and Turning Points of Japanese Public Health Dietitians: a Web-Based Cross-Sectional Study. Tatsuya Koyama, Yusuke Arai, Ayaka Iida, Sumie Isobe, Rie Okamoto, Osamu Kushida, Idumi Shibuya, Kazumi Tanaka, Ayumi Morooka, Katsushi Yoshita. Asian Journal of Dietetics. 4: 83-89.2022

Impressions and turning points of Japanese public health dietitians: a web-based cross-sectional study.

Running head: Public health dietitians' turning points and impressions

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Summary

Background/Purpose: The purpose of this study was to clarify the impressions and turning points (hereinafter referred to as "impressions") of each organization where public health dietitians work in Japan. Method: In 2021, we conducted a complete Web-survey of Japanese public health dietitians working in prefectures, special wards and cities with public health centers, and municipalities. The impressions and turning points of the participants were classified based on the basic guidelines for improving health promotion and nutrition and dietary habits by public health dietitians in the community. Results: The sample of responses included 425, 323, and 914 public health dietitians working in prefectures, special wards and cities with public health centers, and municipalities, respectively. The most impressionable factors for prefectural dietitians were collaborative work, work experience other than health and sanitation departments, health crisis management, self-operated and planned projects, work at the headquarter, and research activities. Public health dietitians in special wards and cities with public health centers were most impressed by work experience other than health and sanitation departments, resident support, health guidance, collaborative work, self-planned and managed projects, and maternal and child health. Municipal public health dietitians were most impressed by maternal and child health, adult health, welfare for older adults, collaborative work, changing jobs to administrative positions, and general interpersonal work. Conclusion: We found regardless of the organization where Japanese public health dietitians work meaningful experiences were similar. Support of these experiences

may improve self-efficacy of public health dietitians.

Keywords: public health dietitians, self-efficacy, impression, turning point, duty, Japan

INTRODUCTION

Public health nutrition is the art and science of promoting population health status via sustainable improvements in the food and nutrition system. Based on public health principles, it is a set of comprehensive and collaborative activities, ecological in perspective, and intersectoral in scope; it includes environmental, educational, economic, technical, and legislative measures [1]. For example, public health dietitians implement salt reduction in communities through assessing community, informing to people, and collaboration with stakeholders [2]. Dietitians are specialists responsible for public health nutrition activities. The number of public health dietitians working at public health centers and health centers is smaller than that of public health nurses in Japan [3]. To promote businesses with a small number of people, increasing self-efficacy is essential [4].

Self-efficacy, as proposed by Bandura, is an individual's belief in how well they can perform the actions required to produce a certain result [4]. Individuals with high self-efficacy exhibit behavioral characteristics such as willingness to make a great deal of effort, willingness to tackle challenges, and a high degree of expectation for eventual success [4].

Extant literature has reported that professionalism and self-efficacy are associated with length of service, personal development, skill improvement, meaningful clinical experience, and participation in social and external activities [5]. The Ministry of Health, Labour and Welfare presents the work of public health dietitians in prefectures, special wards and cities with health centers, and municipalities [6]. Little is known about what working activities are meaningful experiences for public health dietitians.

The duties of public health dietitians working in prefectures, special wards and cities with public health centers, and municipalities vary [6]. Therefore, this study aims to clarify public health dietitians' meaningful experiences, through investigating the impressions and turning points in each type of organization where public health dietitians work. The results of this study may help improve the work of public health dietitians.

MATERIALS AND METHODS

Participants

We conducted a cross-sectional survey among dietitians working in prefectures, special wards and cities with public health centers, and municipalities. The inclusion criteria for the study participants were: (1) those who responded as public health dietitians in a survey by the Ministry of Health, Labour and Welfare; and (2) those with a full-time or part-time (at least four days a week and at least six hours a day) employment status. However, those currently working full-time in fields such as childcare, welfare for older adults, boards of education, and medical care were excluded.

Request letters were sent in January 2021 to dietitians at supervise bureaus who met the inclusion criteria. In the request letters, we specified the purpose of the survey and the URL and QR code linked to the online questionnaire. The web-survey was conducted from January 29, 2021, to March 2, 2021 (Survey Research Center Co., Ltd.). A request for cooperation was presented at the beginning of the questionnaire form. The request clearly stated the purpose of the survey and outlined that all responses and participation would be anonymous, cooperation in the survey was voluntary, responses would be regarded as consent, and that there would be no disadvantage for non-responses. Additionally, since there was a possibility that personally identifiable information may be transmitted to us when returning responses and receive all replies. This meant that the researchers would only receive simply entered databases obtained by the consignment company, and no identifiable respondent information, such as email addresses. All information was destroyed after the survey was completed and secondary use of the data for other purposes was prohibited.

Due to the wide inclusion criteria, the survey request was sent to an unknown number of public health dietitians in Japan, however the final sample of responses included 425, 323, and 914 public health dietitians working in prefectures, special wards and cities with public health centers, and municipalities, respectively.

Public awareness and cooperation regarding the survey was obtained from the public health department of the Japan Dietetic Association and the Japan association of public health center registered dietitians.

Procedures for this study were followed in accordance with the ethical standards of the Helsinki Declaration and were approved by the Ethical committee of Osaka City University (Institutional Review Board protocol 20-27, approval date: August 14, 2020).

Survey items

The survey included items regarding age, sex, and length of service for each main type of work. Additionally, dietitians working in prefectures and special wards and cities with public health centers were asked about the length of duties mainly responsible for community health promotion and improving nutrition and dietary habits at the health department (the headquarter), public health centers, and health centers, food hygiene-related departments, welfare for older adults, and boards of education. We asked dietitians working in municipalities about the length of their main duties, such as community health promotion and improving nutrition and dietary habits at health centers, welfare for older adults, child welfare, and boards of education.

Regarding impressions and turning points, participants were asked, "What was the work that left

the most impression on you, or what was the turning point for you?" The responses were categorized based on the Ministry of Health, Labour and Welfare's "basic guidelines for health promotion and improvement of nutrition and dietary habits by public health dietitians in the community" [6]. The impressions and turning points of dietitians working in prefectures and special wards and cities with public health centers extracted from the survey responses included: maternal and child health projects, projects with older adults, specific health guidance, guidance to specific food service facilities, collaboration with health mates, community assessments, work experience other than health and sanitation departments, work at the headquarters, work at public health centers, changing jobs to administrative positions, planning, food environment improvements, health crisis management, research activites, self-planned and managed projects, presentations at academic conferences, people in the same workplace, general collaborative work, municipal support, duties and initiative as supervisors, human resource development, off-duty activities, participation in workshops, and food labeling work. The extracted impressions and turning points of dietitians working in municipalities included: maternal and child health projects, adult health projects, health guidance, welfare for older adults, general collaborative work, changing jobs to administrative positions, general interpersonal work, collaboration with health mates, health crisis management, work experience other than health and sanitation departments, participation in training sessions, community assessment, self-planned and managed projects, presentations at academic conferences, human resource development, off-duty activities, and people in the same workplace.

RESULTS

Table 1 shows the basic characteristics of the participants. Few dietitians working in prefectures, special wards and cities with public health centers, or municipalities had work experience outside of promoting community health and improving nutrition and dietary habits at the headquarters, public health centers, or health centers. Community health promotion and improvement of nutrition and dietary habits refer to working with food hygiene related departments, welfare for older adults, and boards of education.

The highly ranked impressions and turning points for dietitians working in prefectures included: general collaborative work, work experience other than health and sanitation departments, health crisis management, self-planned and operated projects, work at the headquarters, and research activities (Table 2). The highly ranked impression and turning points for dietitians working in special wards and cities with public health centers included: work experience other than health and sanitation departments, resident support, health guidance, general collaborative work, self-planned and operated projects, and maternal and child health. Finally, the highly ranked impressions and turning points for dietitians working in municipalities included: maternal and

child health, adult health, welfare for older adults, general collaborative work, changing jobs to administrative positions, and general interpersonal work.

The impressions and turning points of dietitians are categorized into (1) relationships with people, (2) collaboration and cooperation with other organizations, and (3) overview of the community (Figure 1). However, the three categories are not independent of each other and all have something in common. Put differently, what left an impression or was a turning point for dietitians may be only one category, but it may be related to two or more categories. Additionally, the particulars of the impression and turning points in each category differ from person to person, as identified in their responses. For example, regarding the impression of the "research activities," one participant described them as "a tough job, but I felt a great sense of accomplishment when I got their cooperation"; therefore, this response was categorized as (1) relationships with people, and (2) collaboration and cooperation with other organizations. Another participant described this impression as "through being involved in a large-scale nutritional survey, the reality of the community has come into view before my eyes," and this response was categorized as (3) overview of the community. Categories (1) to (3) in Figure 1 are only classified according to the descriptions of the participants of this study, and the content of the duties were not necessarily limited to those categories.

Regarding category (1) relationships with people, some participants described experiences of providing health guidance to individuals and seeing their improved health checkup results in the following year. Additionally, the gratitude expressed by the people involved was described as one that left a lasting impression on dietitians. Residents, health mates, and dietitians working for other organizations and institutions were described as cooperative organizations. Participants categorized into (2) collaboration and cooperation in other organizations described the difficulty of conveying their thoughts as a public health dietitian to other organizations, being able to carry out projects in collaboration with other organizations, and broadening their perspectives in their responses. The region to be overlooked differs depending on the participants' organization and may be a prefecture, a municipality under the jurisdiction of the public health center to which the dietitian belongs, or a municipality to which the dietitian belongs. While formulating plans, such as health promotion plans and shokuiku (food and nutrition education) promotion plans, and conducting community assessments, project planning, budget acquisition, and surveys, the respondents described being able to grasp the region from a bird's-eye view, which left an impression on them. This was also described as having led to a turning point for some respondents.

DISCUSSION

In a previous survey of public health dietitians working in municipalities, project management, establishing a cooperative system, and general education and support were extracted as factors

that constituted confidence in duties [7]. These three factors correspond, respectively, to the categories used in this study: overview of the community, cooperation and collaboration with other organizations, and relationships with people. The previous survey has also reported the positive experience of the educational effect, as the experience of independent project management was associated with project management self-efficacy [7]. This further corresponds with factors described as leaving an impression or being a turning point in the present study.

Bandura states that self-efficacy is acquired through four sources: performance achievement, vicarious experience, verbal persuasion, and emotional arousal [8]. In this study, the best impression or turning point tended to be the achievement of executive behavior and verbal persuasion. The few descriptions of vicarious experiences may be explained by the fact that few public health dietitians share the same workplace.

Public health dietitians' interactions with people depend on their duties. In general, the health statuses of patients in hospitals are more variable than that of community-dwelling residents. Therefore, it is thought that work experience other than health and sanitation departments are more frequently described as leaving an impression or being a turning point.

Nutrition is the foundation for people to live well throughout their lives and is an essential element for realizing a vibrant and sustainable society. Nutrition is relevant at all life stages: pregnancy, infancy, childhood, adolescence, adulthood, and old age. Shokuiku (food and nutrition education) initiatives are developed through collaboration and cooperation among a variety of stakeholders, including nursery schools, schools, governments, food-related groups and organizations, and so on [9]. For public health dietitians to respond to such wide-ranging and challenging issues, they must not only work with other occupations within the organization to which they belong but also with various relationships, including dietitians of organizations that they do not belong to and local residents. It is, therefore, necessary to steadily promote measures and obtain results while cooperating with other parties.

Furthermore, it is important for public health nutrition activities to follow the plan-docheck-act cycle based on community assessments [10]. Moreover, it is necessary to consider the entire community when formulating budgets and various plans. In the course of community assessments, whose aims are to understand the actual and potential health issues of individuals, families, and the entire community, and consider solutions while clarifying the causes and backgrounds, evaluation and improvement of implemented measures was described as the event that led to obtaining an overview of the community. Additionally, it was noted that people working at the headquarters tended to work at the prefectural level rather than those working at the public health centers, which left a fresh impression on them.

The three categories in this study are included in the career note of lifelong education system for career advancement shown by the Japanese Dietetic Association [11]. Katz has shown that

effective administration depends on three basic personal skills, which have been called technical, human, and conceptual [12]. The three skills correspond to the categories in this study. By developing the three skills through helping experience and train the three categories it may prove useful in improving self-efficacy of Japanese public health dietitians.

The impressions and turning points are divided into three categories in this study, however, as mentioned in the results, there are many overlapping factors. Furthermore, classifications were made based on the descriptions provided by the participants of this study. Therefore, there is a possibility that certain work contents are related to categories that were not shown in the results of this study.

In this study, more than 10% of public health dietitians described not experiencing any impressions or turning points in their careers. Successful experiences are important factors in enhancing self-efficacy as they tend to leave an impression or become a turning point. Therefore, there is a need for a support program that allows public health dietitians to experience success and increase their self-efficacy.

This study has two limitations. First, to increase the response rate of this survey, we obtained the cooperation of the Japan Dietetic Association and the Japanese association of public health center registered dietitians. The recovery rate was not high; however, the exact recovery rate was unknown because the exact number of public health dietitians in Japan is unknown. There is a possibility that the proportion of respondents in this study does not represent the actual administrative dietitians in Japan. Second, because this survey was conducted during the COVID-19 pandemic, there was a high percentage of respondents who said that health crisis management such as infectious disease countermeasures left an impression on them or served as a turning point.

CONCLUSION

We conducted a survey of public health dietitians working in prefectures, special wards and cities with public health centers, and municipalities. Regardless of the organization they worked for, the factors found to have left an impression on or be considered as turning points for public health dietitians were classified into (1) relationships with people, (2) collaboration with other organizations, and (3) overview of the community. These results suggest that it is important to support these experiences to raise the self-efficacy of public health dietitians.

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Table 1. Basic characteristics of participants

			Prefecture (n=452)		Special wards and cities with public health centers (n=323)		Municipalities (n=914)	
			n	(%)	n	(%)	n	(%)
Age		20s	110	(24.3)	69	(21.4)	227	(24.8
-8-		30s	79	(17.5)	87	(26.9)	284	(31.1
		40s	120	(26.5)	84	(26.0)	262	(28.7
		Over 50s	143	(31.6)	83	(25.7)	141	(15.4
Sex		Female	430	(95.1)	311	(96.3)	890	(97.4
		Male	22	(4.9)	12	(3.7)	24	(2.6)
Work	Local health	No work experience	249	(55.1)	187	(57.9)	-	-
nistory	promotion and	<3 years	80	(17.7)	53	(16.4)	-	-
	improvement of	3–5 years	73	(16.2)	31	(9.6)	-	-
	nutrition and eating		31	(6.9)	34	(10.5)		
	habits at the hygiene	5–10 years					-	-
	administration	10–20 years	15	(3.3)	14	(4.3)	-	-
	department (main	20–30 years	3	(0.7)	3	(0.9)	-	-
	government office)	>30 years	1	(0.2)	1	(0.3)	-	-
	Community health	No work experience	11	(2.4)	13	(4.0)	11	(1.2)
	promotion and	<3 years	93	(20.6)	81	(25.1)	281	(30.
	improvement of	3-5 years	54	(11.9)	44	(13.6)	133	(14.0
	nutrition and dietary	5-10 years	75	(16.6)	76	(23.5)	189	(20.7
	habits at public health	10-20 years	132	(29.2)	69	(21.4)	183	(20.0
	centers and health centers	20-30 years	73	(16.2)	32	(9.9)	107	(11.7
		>30 years	14	(3.1)	8	(2.5)	10	(1.1)
	Departments related	No work experience	406	(89.8)	293	(90.7)	-	-
	to food hygiene	<3 years	22	(4.9)	15	(4.6)	-	-
		3–5 years	$\overline{10}$	(2.2)	Â	(1.2)	-	-
		5–10 years	11	(2.4)	9	(2.8)	-	-
		10-20 years	3	(0.7)	2	(0.6)	-	-
		20–30 years	0	(0.0)	0	(0.0)	-	-
		>30 years	0	(0.0)	0	(0.0)	-	-
	Departments related	No work experience	435	(96.2)	291	(90.1)	706	(77.2
	to older	<3 years	8	(1.8)	18	(5.6)	98	(10.7
	adults/Welfare for	3–5 years	6	(1.3)	7	(2.2)	37	(4.0)
	older adults	5–10 years	2 1	(0.4)	4	(1.2)	36	(3.9)
		10-20 years		(0.2)	3	(0.9)	23	(2.5)
		20-30 years	0	(0.0)	0	(0.0)	12	(1.3)
		>30 years	0	(0.0)	0	(0.0)	2	(0.2)
	Child welfare	No work experience	-	-	-	-	730	(79.9
		<3 years	-	-	-	-	49	(5.4)
		3–5 years	-	-	-	-	47	(5.1)
		5-10 years	-	-	-	-	51	(5.6)
		10–20 years 20–30 years	-	-	-	-	28 8	(3.1)
			-	-	-	-	1	(0.9) (0.1)
	Board of education	>30 years	421	(93.1)	258	(79.9)	796	(87.0
	Board of education	No work experience			238 17		47	
		<3 years 3–5 years	8 15	(1.8)	17	(5.3)	22	(5.1)
		5-5 years		(3.3)	15	(4.6)	32	(2.4)
		5-10 years	5	(1.1)		(5.9)		(3.5)
		10-20 years	3	(0.7)	11	(3.4)	12	(1.3)
		20–30 years	0	(0.0)	3	(0.9)	4	(0.4)
		>30 years	0	(0.0)	0	(0.0)	1	(0.1)

	Prefecture (n=452)		Special cities health (n=323)	centers	Municipalities (n=914)	
	n	(%)	n	(%)	n	(%)
Maternal and child health	2	(0.4)	16	(5.0)	109	(12.1)
Adult health	0	(0.0)	0	(0.0)	40	(4.4)
Welfare for older adults	12	(2.7)	2	(0.6)	35	(3.9)
Health guidance	12	(2.7)	28	(8.8)	121	(13.4)
Resident support	21	(4.7)	36	(11.3)	0	(0.0)
General interpersonal work	0	(0.0)	0	(0.0)	129	(14.3)
Guidance to specific food service facilities	16	(3.6)	14	(4.4)	0	(0.0)
Collaboration with health mates	7	(1.6)	8	(2.5)	34	(3.8)
General collaborative work	59	(13.1)	26	(8.1)	61	(6.8)
Community assessments	15	(3.3)	4	(1.3)	14	(1.6)
Work experience other than health and sanitation departments	46	(10.2)	39	(12.2)	106	(11.7)
Working at the headquarter	30	(6.7)	8	(2.5)	0	(0.0)
Working at the public health center	3	(0.7)	6	(1.9)	0	(0.0)
Changing jobs to administrative position	13	(2.9)	14	(4.4)	27	(3.0)
Planning	15	(3.3)	15	(4.7)	50	(5.5)
Food environment improvements	11	(2.4)	0	(0.0)	0	(0.0)
Health crisis management	46	(10.2)	11	(3.4)	11	(1.2)
Research activities	27	(6.0)	10	(3.1)	0	(0.0)
Self-planned and managed projects	36	(8.0)	21	(6.6)	17	(1.9)
Presentation at academic conferences	6	(1.3)	4	(1.3)	5	(0.6)
Work behavior of people in the same workplace	13	(2.9)	6	(1.9)	16	(1.8)
Municipal support	6	(1.3)	0	(0.0)	0	(0.0)
Duties and initiative as supervisors	1	(0.2)	0	(0.0)	2	(0.2)
Human resource development	9	(2.0)	0	(0.0)	4	(0.4)
Off-duty activities	4	(0.9)	1	(0.3)	4	(0.4)
Participation in training sessions	6	(1.3)	1	(0.3)	0	(0.0)
Business on food labeling	12	(2.7)	6	(1.9)	0	(0.0)
None	75	(16.7)	55	(17.2)	191	(21.2)

Table 2. Factors that left an impression on or were a turning point for administrative dietitians

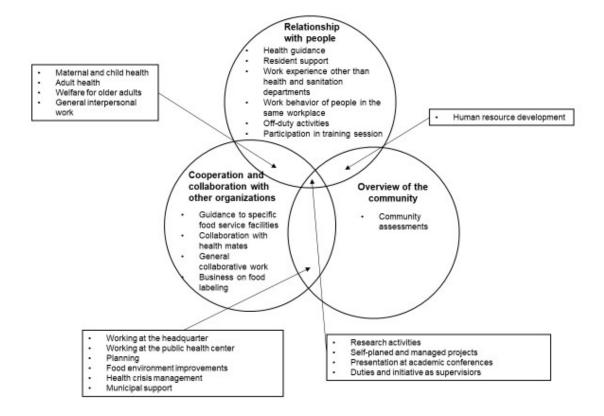


Figure. 1 Three elements that left an impression on or were turning point for public health dietitians.