PRINTED 2021.0630 ISSN 2189-4957 Published by Asian Society of Human Services

# TOTAL Rehabilitation Research





WA [Message to the World]

ASIAN SOCIETY OF HUMAN SERVICES

#### **ORIGINAL** ARTICLE

## The Status of Vocational Rehabilitation Using Agriculture in Japan;

Survey of Work Support Centers for Continuous Employment Type B in Akita Prefecture

Kazuaki MAEBARA<sup>1)</sup> Yukiko GOTO<sup>2)</sup> Jun YAEDA<sup>3)</sup>

- 1) Department of Education and Human Studies, Akita University
- 2) Faculty of Industrial Technology, Tsukuba University of Technology
- 3) Graduate School of Comprehensive Human Sciences, University of Tsukuba

#### ABSTRACT

The purpose of this study was to investigate perceptions of the effectiveness of horticulture therapy (HT) in Japanese Work Support Centers for Continuous Employment Type B(WCE-B). A questionnaire was mailed to all participating WCE-B. A comparison was made between the importance of and perceived need for improvement across the main work categories and the main disability type of users. The trends in perceptions of the importance of each item were almost identical between agricultural work (AW) and non-AW. In AW, the need to create a reassuring atmosphere, item 9 and 5, was found to be important while in non-AW, the need to provide physical experience opportunities, item 10, was responded to. Perceptions of the importance of each item were similar between people with psychiatric disorder and intellectual disability, with a higher selection ranking for items related to the provision of receptive places perceived as important across AW and non-AW. For psychiatric disorders, the provision of physical experiences in item 10 was needed while the promotion of opportunities for interaction between users in item 9 was needed for intellectual disabilities. Based on the results of this study, it is necessary to examine the role WCE-B are expected to play in the future.

Received January 14, 2021

Revised

Accepted May 25, 2021

Published

June 30, 2021

May 20, 2021

<Key-words>

horticultural therapy, work support centers for continuous employment type B, collaboration between agriculture and welfare, vocational rehabilitation

maebarakazuaki@gmail.com (Kazuaki MAEBARA)

Total Rehabilitation Research, 2021, 9:1-10. © 2021 Asian Society of Human Services

#### I. Introduction

In recent years, collaboration between agriculture and welfare (CAW) has been attracting attention in Japan. CAW is defined as "an effort to promote the development of agricultural management, the creation of self-confidence and motivation for persons with disabilities, and ultimately social participation by promoting the activities of persons with disabilities in the agricultural field through cooperation between agriculture and welfare" <sup>1)</sup>. Agricultural cooperation is expected to not only contribute to solving issues such as the shortage of farmers in Japan, but also help address the problem of the lack of vocational training opportunities for the disabilities. Therefore, based on the concept of CAW, welfare facilities of transition support for employment and Work Support Centers for Continuous Employment Type B (WCE-B) have started to consider introducing agriculture as a training item in vocational rehabilitation programs.

The practice of horticultural therapy (HT) in vocational rehabilitation (VR) is instructive in considering the effects of CAW. HT is defined as "the art and science of growing flowers, fruits, vegetables, and shrubs resulting in the development of the minds and emotions of individuals, the enrichment and health of communities, and the integration of the "garden" in the breadth of modern civilization"<sup>2)</sup>. Horticultural activities focusing on the relationship between plants and humans would be helpful in providing work support using agriculture. Relf<sup>3)</sup> noted that the introduction of HT into a VR program can be effective in terms of changes in self-concept, social interaction, physical abilities, academic skill development and improved work habits. Grahn, Pálsdóttir, Ottosson and Jonsdottir<sup>4)</sup> investigated the effects of a nature-based VR program on depression and mental disorders through a prospective quasi-experimental study and reported that the study outcomes indicated an increase in the possibility of a return to paid work. Joy, Lee and Park<sup>5)</sup> examined the pretest-posttest intervention effects of a HT program for the VR of individuals with intellectual disabilities and reported improvements in hand function, emotional behavior, and social skills. Pálsdóttir, Grahn and Persson<sup>6)</sup> described and assessed changes in participants' experiences of occupations after nature-based VR, noting that a slower pace of everyday life and work lead to a positive change in perceived values of everyday occupations. These studies confirm the effectiveness of VR programs using HT.

In Japan, research on the effects of HT in VR programs can be confirmed. These effects include effective stress reduction methods <sup>7</sup>), expansion of the client's interest in the world <sup>8</sup>), effective convalescence, improvement of communication skills and aptitude of life rhythms <sup>9</sup>), decreased mental stress and increased positive emotions <sup>10</sup>).

So, how is the HT perspective incorporated in WCE-B? We can confirm that there are practical reports on CAW, mainly in the agricultural field, but there is still little research on agriculture and VR. In addition, while there are few studies on the relationship between culture and the arts <sup>11</sup>, there are only a few studies that examine VR from the

perspective of HT. It is important to clarify the perceptions of WCE-B from the perspective of HT, as it is expected that the number of CAW will increase. This will be useful in examining how to provide VR in the future. The purpose of this study was to investigate perceptions of the effectiveness of HT in Japanese WCE-B.

#### II. Method

#### 1.Participants

A self-administered questionnaire survey was conducted at all 119 WCE-B in Akita Prefecture (as of October 1, 2019). The survey form was mailed to the management of each facility with a request to participate in the study. The survey period was from January 10 to February 20, 2020. Completed questionnaires were returned by postal mail. Of the 119 facilities contacted, 60 responses were returned (50.4% response rate).

#### 2.Survey items

The questionnaire consisted of four parts: basic information, implementation status of work support, effectiveness of work support, and attitudes toward support. In this study, the number of registered users by disability, the implementation status of work support using agriculture, and the effect of work support were analyzed.

For basic information, we asked for the number of registered users by disability (intellectual disability, physical disability, psychiatric disability, and other disabilities) and the status of implementation of work support using agriculture (implementation of CAW, existence of agriculture-related work and absence of agriculture-related work).

The Support Effect Achievement Checklist (SEACH) was developed from the Program Evaluation Table for Horticultural Therapy <sup>12)</sup> of 11 items related to treatment effects (bringing hope, universal experience, accepted experience, altruistic experience, information transfer, reality examination, imitation learning modification, expression catharsis, interaction cohesiveness, shared experience, and existential experience). Based on the commentary by Yamane and Sawada <sup>12)</sup>, each question was composed by examining the wording and confirmed by collaborators with research experience and practice expertise in VR.

For each item, the respondents were asked to provide three items for the following two questions better: "What do you think is important for providing work support (which may or may not be implemented)" and "What do you think needs to be improved in providing work support".

#### 3.Data analysis

The percentage of users per disability was calculated from the number of registered users, and the type of disability with the highest percentage was designated as the main disability type for each facility. Two categories of work were classified as follows: agricultural work (AW) for those who had implemented CAW and have done agriculture-related work, and non-agricultural work (non-AW) for those who had not done agriculture-related work.

The number of selections per item was counted, and selections were arranged in order of ranking among disability types and work categories. The perceptions were analyzed in terms of their selection ranking trends.

#### **4.Ethical Considerations**

This research was approved by the Research Ethics Screening Committee to conduct a study targeting people in the Tegata region of Akita University (No. 1-10 on 4 December 2019). On the front cover of the questionnaire, it was stated that personal information such as the names of individuals and facilities of the respondents would not be used, and that the data would not be used for any other purpose. Consent for survey cooperation was obtained by replying to the questionnaire.

#### **III. Results**

#### 1. Basic attributes of the participants

The basic attributes of the participants are shown in Table 1. Twenty-nine facilities (48.3%) had AW as their main work, while 31 facilities (51.7%) had non-AW as their main work. The primary disability was intellectual disability at 34 (56.6%) facilities and psychiatric disability at 19 (31.6%) facilities. The ratio of users per disability was calculated from the number of registered users for each disability, and the disability type with the highest ratio was designated as the main disability type of each facility. In the following analysis, the 34 (56.6%) facilities with intellectual disability and 19 (31.6%) facilities with psychiatric disability as the main disability type for users were used in the analysis, excluding those facilities with a small number of physical and other disability and those with the same percentage of main disability.

#### 2. Comparison of perceptions between AW and non-AW

A comparison was made of the importance of and perceived need for improvement across the main work categories of AW and non-AW (Table 2). The trends in perceptions of the importance of each item were almost identical between AW and non-AW. Specifically, responses for items 3, 7, 4 and 1 on providing a receptive place were indicated as important. There was a difference in a part of the perception of the need for improvement for some items. There was a similarly high level of perceived need for improvement on the promotion of interaction between users in items 6 and 7 across AW and non-AW. In AW, the need to create a reassuring atmosphere, item 9 and 5, was responded to need for improvement, while in non-AW, the need to provide physical experience opportunities, item 10, was responded to need for improvement.

#### 3. A comparison of perceptions between psychiatric disorder and intellectual disabilities

A comparison was made between the main disability type of users, psychiatric disorder and intellectual disabilities, based on respondents' perceptions of importance and the need for improvement (Table 3). Perceptions of the importance of each item were similar between psychiatric disorder and intellectual disability, with a higher selection ranking for items related to the provision of receptive places perceived as important across AW and non-AW. In terms of the main disability type of users, there was a difference in the need for improvement. For psychiatric disorders, the provision of physical experiences in item 10 was needed while the promotion of opportunities for interaction between users in item 9 was needed for intellectual disabilities.

<table 1=""> Basic attributes of the participants</table>				
	Number of registered users			
Intellectual disability	Mean: 14.1 (SD: 10.07, range: 0-41)			
Physical disability	Mean: 3.0 (SD: 4.06, range: 0-21)			
Psychiatric disability	Mean: 8.8 (SD: 10.65, range: 0-61)			
Other disabilities	Mean: 0.5 (SD: 1.24, range: 0-6)			
	Number of facilities (%)			
Main disability type of each facility				
Intellectual disability	34 (56.6)			
Psychiatric disability	19 (31.6)			
Not included in the analysis				
Physical disability	2 (3.3)			
Other disabilities	0 (0.0)			
Not classifiable	5(8.3)			
AW	29 (48.3)			
CAW	12 (20.0)			
Agriculture-related work	17 (28.3)			
Non-AW	31 (51.7)			

AW: Facilities that do the agricultural work to provide support.

CAW: Facilities that do the collaboration between agriculture and welfare to provide support.

Non-AW: Facilities that do the non-agricultural work to provide support.

		1 1 1		
Ranking of			Ranking	; of need
importance		Item	for improvement	
(nu	mber of		(num	ber of
selections)			select	cions)
4117	Non-		4 3 3 7	Non-
AW	AW		AW	AW
1	3	3. Clients can feel accepted for his or her	9	7
(18)	(16)	existence.	(4)	(5)
0	1	7. Enable clients to acquire the skills	0	1
2 (17)	(20)	necessary for social life and to have a sense of	(10)	(10)
(15)	(20)	distance from others.	(12)	(18)
0	~	4. Focus on what clients can do while helping	10	-
3	$\frac{5}{2}$	them feel a "sense of security" and the	10	(-)
(13)	(8)	"warmth of people".	(3)	(5)
4	0	1. Clients can feel relieved just by coming	-	10
4	$\frac{2}{1}$	here, or feel like they can do it again for a	(-)	10
(11)	(17)	reason.	(5)	(10)
<b>5</b>	6	8. Clients can express their thoughts and	6	3
(10)	(8)	feelings.	(8)	(11)
6	4	6. Clients have the opportunity to identify	1	3
(9)	(9)	their situation and their abilities.	(15)	(11)
7	11	9. Clients can interact with others in a calm	3	7
(4)	(0)	and gentle manner.	(11)	(5)
8	10	10. Allow clients to share physical experiences	7	2
(3)	(1)	with others that utilize the five senses.	(5)	(12)
0	0	2. Through interaction with others with	10	11
$(\mathbf{g})$	8	common disabilities, clients can feel at ease	10	11
(2)	(3)	that they are not alone.	(3)	(2)
		5. Clients can have a free and natural place to		
9	7	interact with each other where they can	4	6
(2)	(4)	exchange information about their lives and	(9)	(6)
		hobbies.		
11	8	11. Clients can have peace of mind to accept	4	<b>5</b>
(0)	(3)	who they are.	(9)	(7)

<Table 2> Comparison of perceptions between AW and non-AW

AW: Facilities that do the agricultural work to provide support.

Non-AW: Facilities that do the non-agricultural work to provide support.

#### DOI: https://doi.org/10.20744/trr.9.0\_1 TOTAL REHABILITATION RESEARCH, VOL.9 1-10

<table 3=""> Comparison of perceptions between PD and ID</table>							
Ranking of			Ranking of need for				
importance		Item	improvement				
(number	of		(number	of			
selections)			selections)				
PD	ID		PD	ID			
1	2	3. Clients can feel accepted for his or her	11	7			
(13)	(18)	existence.	(0)	(7)			
0	4	1. Clients can feel relieved just by	7	10			
$\frac{Z}{(0)}$	(15)	coming here, or feel like they can do it	( (2)	10 (4)			
(9)	(15)	again for a reason.	(3)	(4)			
0	0	6. Clients have the opportunity to	9	1			
$\frac{3}{2}$	6	identify their situation and their	(10)				
(8)	(9)	abilities.	(10)	(14)			
0	-	7. Enable clients to acquire the skills	-	-			
3		necessary for social life and to have a					
(8)	(21)	sense of distance from others.	(12)	(14)			
5	5	8. Clients can express their thoughts and	4	3			
(7)	(11)	feelings.	(6)	(11)			
(•)	(11)	4 Focus on what clients can do while		(11)			
6	3	helping them feel a "sense of security"	9	9			
(4)	(16)	and the "warmth of neonle"	(2)	(5)			
		2 Through interaction with others with					
7	7	2. Infough interaction with others with	7	11			
(2)	(3)	common disabilities, chefts can leef at	(3)	(1)			
7	0	ease that they are not alone.	0	0			
(1)	9 (9)	9. Otherts can interact with others in a	9	3 (11)			
(2)	(2)	caim and gentie manner.	(2)	(11)			
7	11	10. Allow clients to share physical	3	7			
(2)	(1)	experiences with others that utilize the	(7)	(9)			
(/	(-)	five senses.					
	_	5. Clients can have a free and natural					
10	7	place to interact with each other where	6	6			
(1)	(3)	they can exchange information about	(4)	(10)			
		their lives and hobbies.					
10	9	11. Clients can have peace of mind to	<b>5</b>	3			
(1)	(2)	accept who they are.	(5)	(11)			

PD: Facilities mainly with Psychiatric disorder

ID: Facilities mainly with intellectual disability

#### **IV.** Discussion

In this study, we examined work support in WCE-B from the perspective of HT. As a result, the perceptions of importance were similar across the main work categories and also across the main types of disabilities. In general, it is thought that work support is provided by taking into account the type of work or disability, but in Japan's WCE-B, there is no difference in the characteristics of support from the perspective of HT, and HT is thought to be recognized as important as a common foundation of work support and incorporated into practice.

The central stance of support for Japan's WCE-B is to provide a place for people with

disabilities to feel comfortable. Matsumoto et al.'s <sup>13)</sup> sampling survey of nationwide WCE-B reported that the purpose of productive activities in establishments that emphasize the provision of living spaces and daytime activities most often in Japan is to provide individual user satisfaction and emotional stability. Lee and Lee <sup>14)</sup> pointed out that the delivery systems for employment services for disabled persons are rather important and administrative support is needed to enhance the functioning of work support service organizations from the comparative analysis of the employment quota systems for disabled people in Japan and Korea. Therefore, along with the promotion of CAW, it is considered necessary to intervene to enhance VR programs for the transition of persons with disabilities to employment.

The recognition of the need for improvement revealed challenges in promoting CAW in support for WCE-B. Those with AW as their primary work category identified the promotion of a reassuring atmosphere as an improvement item, while those with non-AW as their primary work category identified the provision of physical experience as an improvement item. In particular, HT is said to have a therapeutic effect on stress relief, and it would be effective to incorporate a HT program for AW. Kanda et al.<sup>15-16)</sup> and Toyoda and Ikeda<sup>17)</sup> pointed out that further knowledge dissemination and human resource development are needed to incorporate HT into VR programs in Japan, where the methods and effects of HT are not well understood. Therefore, it is considered necessary to verify the effectiveness of HT in support of employment in the promotion of CAW.

There was a difference in the recognition of the need for improvement in some items at WCE-B, which mainly serve users with intellectual disabilities and psychiatric disorders. It was thought that it was necessary to examine the program according to the characteristics of disabilities, rather than setting up a uniform VR program regardless of the type of disability. The necessity of securing opportunities for physical interaction was cited for the WCE-B that mainly serve users with psychiatric disorders. This may indicate the need for a non-invasive setting based on non-verbal interactions based on the characteristics of people with psychiatric disorders. On the other hand, the necessity of setting up opportunities for interaction with others was raised in the WCE-B that mainly serve intellectual disabilities. This may indicate the need for opportunities to restore self-esteem and promote social skills. Thus, while recognizing the need for support according to disability characteristics, the current situation seems to be that sufficient improvements have not been made and reflected in support programs. It is necessary to construct a system that can provide supervision of work support for WCE-B. In Japan, there is no such system of certified rehabilitation counselors as there is in the United States, and welfare and labor are often separated from each other in the development of support. We believe that these areas need to be integrated.

#### V. Conclusion

The research questions for this study were as follows: (a) Is there a difference in the perspective of HT in work support based on the main work categories in Japan's WCE-B? and (b) Is this different depending on the type of disability of the primary user?

The responses from the WCE-B obtained suggestions regarding the usefulness of incorporating HT programs in CAW. In addition, the analysis of the main disability type of users revealed perspectives for improving the VR support system in Japan. Based on the results of this study, it is necessary to examine the role expected of WCE-B in the future.

#### Acknowledgement

This study was supported by a grant No. 19GC1006 from the Ministry of Health, Labour and Welfare in Japan.

#### References

1) Council for the Promotion of collaboration between agriculture and welfare (2019) Vision for the collaboration between agriculture and welfare (Translated from Japanese).

URL:https://www.kantei.go.jp/jp/singi/nousui/noufuku\_suishin\_kaigi/dai2/gijisidai.h tml (16, March 2020)

- 2) Relf PD. Human issues in horticulture. Hort-Technology. 1992, 2(2), 159-171. DOI: 10.21273/HORTTECH.2.2.159
- 3) Relf PD. The use of horticulture in vocational rehabilitation. *Journal of rehabilitation*. 1981, 47(3), 53-56.
- 4) Grahn P, Pálsdóttir AM, Ottosson J & Jonsdottir IH. Long Nature-Based Rehabilitation May Contribute to a Faster Return to Work in Patients with Reactions to Severe Stress and/or Depression. International Journal of Environmental Research and Public Health. 2017, 1310. 14. DOI:10.3390/ijerph14111310
- 5) Joy YS, Lee AY, & Park SA. A Horticultural Therapy Program Focused on Succulent Cultivation for the Vocational Rehabilitation Training of Individuals with Intellectual Disabilities. *International Journal of Environmental Research and Public Health.* 2020, 17, 1303. DOI:10.3390/ijerph17041303
- 6) Pálsdóttir AM, Grahn P & Persson D. Changes in experienced value of everyday occupations after nature-based vocational rehabilitation. *Scandinavian Journal of Occupational Therapy.* 2013, Early Online, 1-11. DOI: 10.3109/11038128.2013.832794
- 7) Hayashi N. Neural Network Model for Stress Relief System Through the Use of Horticultural Activity (Translated from Japanese). *Agricultural Information Research*. 2004, 13(1), 31-36.
- 8) Shibatani I, Harada A, & Washio K. Change of Interest in Plants and Gardening of Residents and Staff in a Home for the Disabled during Beautification of Garden Environment (Translated from Japanese). *Journal of the Japanese Society of People-Plant Relationships*. 2009, 8(2), 15-22.

- 9) Uehara I. Effects of Outdoor Activities in the Treatment of Mental Disabilities (Translated from Japanese). *Bulletin of the Shinshu University Forests.* 2001, 9(2), 24-32.
- 10) Sugihara S, Asano M, Morishima S & Aoyama H. A Basic Study of Horticultural Therapy- Effects of Horticultural Activity for people with Mental Retardation Using Biochemical Markers in Saliva- (Translated from Japanese). *Journal of the Japanese Society of People-Plant Relationships*. 2012, 12(1), 9-14.
- 11) Kim M, Bang, G, Kim, E & Han, C. The Performance of Culture and Arts Support Program for Persons with Disabilities as the Means of Cultural Marketing and the Tasks for its Development: Based on the Survey on the Current State of the Awareness of Culture and Arts Support Program of the Companies for Persons with Disabilities in South Korea. Asian J Human Services. 2015, 9, 46-62. DOI: 10.14391/ajhs.9.46
- 12) Yamane H & Sawada M. People, Plants and the Environment: Using horticulture as therapy (Translated from Japanese). 2009, Seikaisya, Tokyo, Japan.
- 13) Matsumoto S, Imaeda F & Kanno A. Continuous Working Support based on the Differentiation of Function in Adults with Intellectual Disabilities: Through a Survey of the Work Continuance Support Type B Offices (Translated from Japanese). Japanese Journal on Support System for Developmental Disabilities. 2019, 18(2), 199-206.
- 14) Lee S & Lee S. Comparing Employment Quota Systems for Disabled People Between Korea and Japan. Asian J Human Services, 2016, 10, 83-92. DOI: 10.14391/ajhs.10.83
- 15) Kanda H, Nakano M, Hosaka M, Takahashi H, Yoshida Y & Kitahara K. Report on the survey on attitudes toward horticultural therapy in welfare facilities in Akita Prefecture (Translated from Japanese). *The bulletin of Akita Prefectural College of Agriculture*. 2001, 2, 13-21.
- 16) Kanda H, Nakano M, Hosaka M, Takahashi H, Yoshida Y & Kitahara K. Survey Report on the Actual Conditions of Horticultural Activities at Welfare Institutions in Akita Prefecture (Translated from Japanese). The bulletin of Akita Prefectural College of Agriculture. 2001, 2, 13-21.
- 17) Toyoda M & Ikeda T. Present Status and Issues of Horticultural Therapy Observed through Articles on Practical Research in Japan (Translated from Japanese). *Journal of the Japanese Society of People-Plant Relationships*. 2007, 6(2), 41-46.



## TOTAL REHABILITATION RESEARCH EDITORIAL BOARD

#### EDITOR-IN-CHIEF

Masahiro KOHZUKI Tohoku University (Japan)

#### EXECTIVE EDITORS

Changwan HAN Shimonoseki City University (Japan)

34+

Aiko KOHARA Shimonoseki City University (Japan)

Daisuke ITO Tohoku Medical Megabank Organization (Japan)

Eonji KIM Miyagigakuin Women's University (Japan)

Giyong YANG Pukyong National University (Korea)

Haejin KWON University of the Ryukyus (Japan)

Hitomi KATAOKA Yamagata University (Japan)

Jin KIM Choonhae College of Health Sciences (Korea) Kyoko TAGAMI Aichi Prefectural University (Japan)

Makoto NAGASAKA KKR Tohoku Kosai Hospital (Japan)

Masami YOKOGAWA Kanazawa University (Japan)

Megumi KODAIRA International University of Health and Welfare Graduate School (Japan) Misa MIURA Tsukuba University of Technology (Japan)

Moonjung KIM Korea Labor Force Development Institute for the aged (Korea)

Shuko SAIKI Tohoku Fukushi University (Japan)

Suguru HARADA Tohoku University (Japan) Takayuki KAWAMURA Tohoku Fukushi University (Japan)

Yoko GOTO Sapporo Medical University (Japan)

Yongdeug KIM Sung Kong Hoe University (Korea)

Yoshiko OGAWA Teikyo University (Japan)

Youngaa RYOO National Assembly Research Service: NARS (Korea)

Yuichiro HARUNA National Institute of Vocational Rehabilitation (Japan)

Yuko SAKAMOTO Fukushima Medical University (Japan)

Yuko SASAKI Sendai Shirayuri Women's College (Japan)

#### EDITORIAL STAFF Editorial Assistants

Haruna TERUYA University of the Ryukyus / Shimonoseki City University (Japan)

Natsuki YANO University of the Ryukyus (Japan)

as of April 1, 2021

## TOTAL REHABILITATION RESEARCH

#### VOL.9 JUNE 2021

#### ${\ensuremath{\mathbb C}}$ 2021 Asian Society of Human Services

Presidents | Masahiro KOHZUKI & Sunwoo LEE

Publisher Asian Society of Human Services

- # 1 Floor Ohara Bill, 2-11-5, Takezaki-Town, Shimonoseki-City, Yamaguchi-Prefecture, 750-0025, Japan E-mail: ashs201091 [gmail.com]
- Production | Asian Society of Human Services Press # 1 Floor Ohara Bill, 2-11-5, Takezaki-Town, Shimonoseki-City, Yamaguchi-Prefecture, 750-0025, Japan E-mail: ashs201091□gmail.com

#### TOTAL REHABILITATION RESEARCH VOL.9 JUNE 2021

## CONTENTS

## ORIGINAL ARTICLE

The Status of Vocational Rehabilitation Using Agriculture in Japan; Survey of Work Support Centers for Continuous Employment Type B in Akita Prefecture

Kazuaki MAEBARA et al. 1

## Short Paper

The Verification of Reliability and Validity of the "School QOL Scale for Children (Draft)" ; Focusing on data from junior high schools in Okinawa Prefecture

Haruna TERUYA et al. 11

## **REVIEW ARTICLE**

A Study of the Dilemma of Cultural Competence; Reconstruction of Cultural Competencies in Social Work

Liting CHEN et al. 20

Published by Asian Society of Human Services Yamaguchi, Japan