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Interventions that Address Quality of Life for those Transitioning to Long Term Care

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Interventions that Address Quality of Life for those Transitioning to Long Term Care

May 11, 2023

This evidence project, submitted by

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has been approved and accepted in partial fulfillment of the requirements for the degree(s) of Master of Science in Occupational Therapy (and) Occupational Therapy Doctorate from the University of Puget Sound.

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Key words: quality of life , long term care , transitioning older adults

Abstract

This research was proposed by community collaborator Lauren Gilliland, OTR/L, the director of occupational therapy at the Villages, a skilled nursing and rehabilitation facility, in central Florida. Gilliland was interested in adding new interventions to her current practice, especially with older adults affected by transitioning to a long term care facility, who experience a shift of daily roles, routines, and identity that may impact their quality of life. The focus of this evidence-based project was to explore current literature of occupational therapy interventions aiming to improve quality of life for older adults, specifically transitioning into long term care facilities. The CAT findings provided various occupational therapy interventions that have been found to improve quality of life for this population. The interventions were organized into themes of culture and art, music, spirituality, exercise-based interventions, dog-assisted therapy, and altruistic activities to help residents transitioning into long-term care to maintain their well-being.

The knowledge translation activity encompassed creating and organizing a resource notebook of the recommended interventions found in the research. Our collaborating practitioner was eager for us to generate a knowledge translation product that gave the care team specific interventions that can be used in their everyday practice to improve the overall quality of life of their clients. Benefits and considerations included in the notebook present a variety of interventions that can be used in this setting. The ease and efficiency of the notebook's use was evaluated by Gilliland and the rehabilitation team with a survey. To ensure a more holistic perspective for occupational therapy practitioners (OTPs) when considering interventions, future recommendations are to include quality of life outcomes in diagnosis-specific populations such as Alzheimer's and dementia for a broader scope, create a deeper and more defined understanding of a client's transition experience into long term care, and utilize a more standardized assessment for measuring quality of life.

Focused Ouestion

What occupational therapy interventions are shown to be effective for improving overall QoL in older adults transitioning into long-term care?

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Date Review Completed

11/3/2022

Professional Practice Scenario

Our collaborator, Lauren Gilliland, OTR/L, currently works at a skilled nursing and rehabilitation facility (SNF) within The Villages community located in central Florida. This facility holds approximately 145 beds with clients ranging between the ages of 60 and 90, but the majority are in their 80's. The Villages consist of both male and female residents, but are predominantly of white males. There is also a small percentage of Black and Hispanic individuals as well. Around 80% of the clients at the facility are long-term care (LTC) residents and the remaining 20% are short-term rehabilitation residents with acute conditions. Since the majority of her clients are LTC residents, we will use the terms SNF and LTC interchangeably.

Although our collaborator works with clients who have a wide range of diagnoses, we chose to focus on the populations she sees the most, which include, but are not limited to, stroke, cardiovascular disease (CVD), diabetes, chronic obstructive pulmonary disease (COPD) and individuals with cancer. A large majority of the residents have multiple comorbidities including dementia and Alzheimer's disease.

Categories	Key Search Terms
Patient/Client Population	Inpatient, care facility, skilled nursing facility, SNF, LTC, long-term care residents, transitioning, moving, changing, adjustment, adapting to LTC, geriatric, old adults, old old adults (80+), older adults, old old, Stroke, CVA, TBI, traumatic brain injury, injuries, COPD, diabetes, CVD, Dementia, Alzheimer's
Intervention	Activities, purposeful activities, meaningful activities, occupational therapy treatment, OT tx
Comparison	N/A
Outcomes	QoL, wellbeing, independence, competence, daily life roles, competence within daily life roles, self-care, activities of daily living, improved QoL

Method

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Databases, Sites, and Sources Searched

Google Scholar Collins Library: PsychInfo, PubMed, CINAHL, OTSeeker, PEDro, Journals of Occupational Therapy (American, Canadian, United Kingdom etc.) Procedures for the selection and appraisal of articles

Inclusion Criteria

Published after 2000 •

> Justification: Research used within the last 22 years will keep information current and relevant to today's OT practice scope.

- Population:
 - \circ Older adults (60+ years old)
 - Long term care residents (3+ months)
- Interventions impacting QoL
 - Improving and/or lessening QoL
- Transitioning from
 - home to LTC
 - short term care (STC) to LTC
 - acute care to LTC
- Main diagnoses of Stroke, TBI, COPD, diabetes, CVD; Comorbidities can include Dementia and Alzheimer's
 - *Justification:* These are the main diagnoses our practitioner sees within her scope of care.

Exclusion Criteria

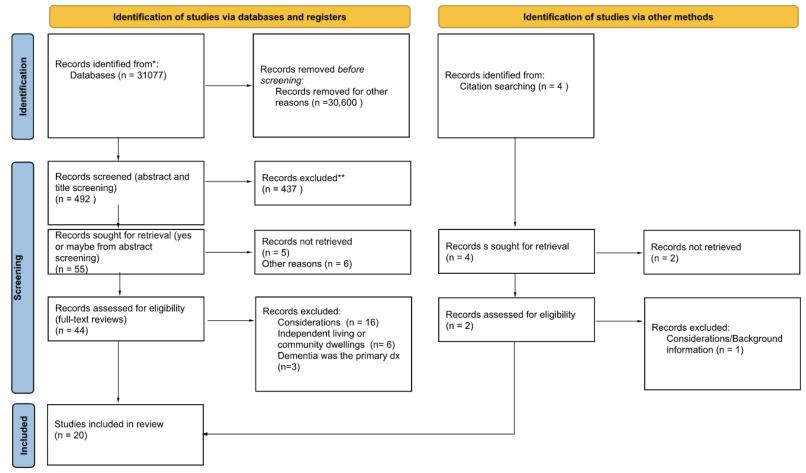
- Publications earlier than the year 2000
- Population:
 - Adults under 60
 - Outpatient, acute care, and STC
 - *Justification:* The setting is a LTC and SNF in which our practitioner would like to utilize QoL interventions, therefore the focus will stay on these settings
- Studies focused on validity and reliability of QoL assessments
 - Justification: The focus is not on assessments of QoL, but rather interventions
- Case-studies, poster presentations, non peer-reviewed journal articles
 - Justification: Research from these sources is not as reliable or generalizable.
- Articles not written in English
 - Justification: The information might be lost or changed within the translation

Search Outcomes/Quality Control/Review Process

Several databases were used for the purpose of our research, these included Google Scholar, PsychINFO, PubMed, OTSeeker,, PEDro, CINAHL and Journals of Occupational Therapy (American, Canadian, or British). Prior to beginning the search, we split the databases up amongst group members so each member was responsible for using two databases for their search. In order to prevent duplicate articles from being used, we input articles into a shared drive. This was especially helpful because group members were in different time zones during our initial searches, so the shared drive helped us organize and observe each others' progress at our own leisure. The search terms listed above helped with the construction of our PICO question: *What occupational therapy practices and interventions can be used to improve overall QOL for older adults transitioning to long-term care*? Some of our searches gave an overwhelming number of articles but we were able to discuss a more precise search strategy with other members during our bi-weekly meetings. Originally, we planned for weekly meetings but quickly realized it was not warranted with the time we had. As we progressed through the search process, the Master Citation table provided focus and direction. The meta-analysis or systematic review articles found were hand-searched in order to find more precise information regarding our PICO question.

Once we completed the Master Citation Table (see Appendix A) and felt our search had been exhausted, we began to review each other's articles to decide if they would be included in our evidence tables. Each individual reviewed two other group members' articles. Ideally, we wanted every member to read every article but with our time constraint it wasn't feasible. During our review process, we ran into challenges with multiple articles we felt were a "maybe". After some clarification from our course instructor and with our collaborator, we had a better understanding of articles to include. Through our search we found several articles that provided specific information on what factors are important to consider when planning an intervention to improve quality of life. Again, after speaking to our course instructor and contacting our collaborator, we decided to keep these articles and include them at the end of our research in an Appendix, and to not input them into CAT tables. These articles will be saved and included in the appendix, or utilized in our paper as background information for our practitioner to consider when planning interventions for her clients.

Graphic Representation of Research Process



Adapted PRISMA 2020 flow diagram for new systematic reviews which included searches of databases and other sources

*Consider, if feasible to do so, reporting the number of records identified from each database or register searched (rather than the total number across all databases/registers). **If automation tools were used, indicate how many records were excluded by a human and how many were excluded by automation tools.

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71. For more information, visit: http://www.prisma-statement.org/ Adapted by University of Puget Sound School of Occupational Therapy

Results

Literature Searching and Article Inclusion

As we navigated through our search process, we honed in our searching skills to create more precise key search terms. We began with 492 articles, which was our total number of hits in the search tracking table (See Appendix B). After reviewing by title and abstract, we were able to narrow the amount of articles down to a total of 55 articles to be imputed into the master citation table. This gave us an idea of what information we wanted to focus on regarding our PICO question of finding interventions to improve quality of life for residents transitioning to long term care facilities.

We originally had 11 "no's" and 44 "yes's" in our master citation table. However, as we began reviewing each other's articles, we began to reduce the overall amount of "yes's" by finding exclusion criteria, inconclusive evidence, and access to articles. In order to talk through these thoughts and corrections in a more efficient manner, we met as a group on several occasions to comb through them in detail to decide if they addressed our PICO question and should be included in our evidence tables. Group members read the full-text articles to ensure relevance to interventions for residents in LTC facilities. Of the 44 original "yes", 9 more articles were removed by further investigation of group members. These articles were removed for a number of reasons; the entire article was not accessible or they did not match up with our PICO question. This left us with 35 articles. Of these 35 articles we dove deeper and decided that 16 of the articles would be excluded from the evidence tables because a majority of their information was in regards to concepts to consider when planning an intervention. We decided that although this information did not align directly with our PICO, it is still important information to keep for background or an appendix in our research. So those 16 articles were removed from the evidence tables and kept to the side for now. This left us with a total of 19 articles to be entered into evidence tables.

We also completed hand searching for two of our literature review articles and were able to gather four more articles for consideration. Upon further examination by all the group members, we decided that only one of these articles would be kept and used in the evidence tables. The other articles were excluded due to our inability to access the full article and for background information. This left us with a final number of 20 articles to be input into the evidence tables. In an ideal world, we as a group would have liked to hand search our review articles in a little more depth, however, due to time constraints and a large number of hits from our original searches we were unable to. This is an area of improvement we would like to make in future research.

Evidence Tables *Quantitative/Experimental Evidence*

Author Year Journal Country	Study Objectives	Study Design/ Level of Evidence, AOTA, Pyramid	Participants: Sample Size, Description, Inclusion and Exclusion Criteria	Interventions & Outcome Measures	Summary of Results	Study Limitations
Bickmore et al. 2019 AJOT USA	Therapeutic biking and the effects on depression in LTCR. If a 6wk biking program helped treat depression and improve the QoL.	Descriptive quantitative pilot study Level IV D4	N=12 Incl = residents living LTCR with a positive hx of depression, ability to sit in an upright position, medically stable, predictive behavior.	I: Occupation based interventions like biking program O:helped treat depression and improve the QoL for LTCRs.	Examined the aggregate ride data (N=92) vs. participant experience (N=12) 10 residents enjoyed the ride 93% of the time Resident moods also appeared to improve after the rides.	Limited number of participants Pilot study Age demographics not specified
Chippendal e & Bear-Lehm an 2012 AJOT USA	Effects of engaging in the occupation-base d intervention of life review through writing on expressed depressive symptoms.	RCT Level I E2	N=45 (23 treatment, 22 wait-list control) ≥65 yr old Excl= people with probable dementia. Incl = ability to speak and write English	I: 8 wk - 1x wk Share Your Life Story writing workshop O: Depressive symptoms were sig. less prevalent for the treatment group than for the control group.	The results suggest a story writing intervention can be used by OTs with older adults who reside in senior residences.	Respondent bias Gap between pretest & posttest >2mo Long term effects of intervention were not addressed.
Hersch et al. 2012 AJOT	Effectiveness of an occupation-base d cultural heritage intervention to	Quasi-experim ental nonequivalent control group design with	N=29 Incl=criteria: age ≥55 yr	29 participants completed the group sessions.	Indicated effectiveness of a structured, occupation-based social group	Recruitment challenges decreased number of available group participants Frailty of an LTC population

USA	facilitate adaptation to relocation into LTCRs. This was measured by QoL, activity engagement, and social participation.	pre- and posttests 9 sessions, 2 per wk for 4 wks Level III O2	Relocation during the past year, receiving licensed nursing care, White or African-American, English speaking, able to participate in interviews, determined by a score of ≤5 on the Short Portable Mental Status Questionnaire. Excl= In a hospice or locked unit	QoL scores improved sig. over time for both groups. Greater amount of time spent in discretionary than obligatory time, pretest and posttest, with no sig. difference between groups.	intervention that improved QoL, an indicator of adaptation. Description of activity patterns and social participation of LTCRs were taken into consideration	Lengths of stay differed Reduced power to detect changes: -inability to examine potential moderating effects -change in group facilitators -continuity of the group sessions
Chan et al. 2010 Quality of Life Research Hong Kong	Evaluate the effectiveness of a 3-month TCQ program promoting the psychosocial functional health of clients with COPD.	Single-blind, RCT Level I E2	N= 206 Tx 1: TCQ, <i>n</i> = 70 - female: <i>n</i> = 1, <i>male:</i> <i>69</i> - avg age: 71.7 - avg yrs of COPD: 10.3 - # w/mild COPD: 7 - mod COPD: 31 - severe COPD: 32 - # w/co-existing disease: 16 - no co-existing disease: 44 Tx 2: Exercise, <i>n</i> = 69 - female: <i>n</i> = 8, <i>male:</i> <i>61</i> - avg age: 73.6 - avg yrs of COPD: 10.6 - # w/mild COPD: 13 - mod COPD: 26	I: Tx 1, TCQ: two 60-min sessions each week for 3 mo. Tx 2, Exercise: taught to practice breathing techniques combined with walking as an exercise Ctrl: received usual care O: MSPSS examining self-perceived social support from social relationships, and health-related QOL SGRQ-HKC, HRQL	Significant group x time interactions with TCQ showing greater improvements in sxs domain (p =0.010) and activit domain (p =0.35) compared to Tx 2 and Ctrl. Tx 1, TCQ: Improvement in self-perceived sx score but no significant differences, no deteriorations, low CI Tx 2, Exercise: slight improvement in sx score, deteriorations observed, no effects significant except in activity score	Small sample size CRQ should be included with SGRQ to compare differences in MCID Worsening trend in Ctrl and Tx 2 groups. Short duration

			 severe COPD: 30 # w/co-existing disease: 16 # w/no co-existing disease: 52 Ctrl, n= 67 female: n= 9, male: 54 avg age: 73.6 avg yrs of COPD: 12.4 # w/mild COPD: 12 mod COPD: 29 severe COPD: 26 # w/co-existing disease: 20 # w/no co-existing disease: 41 Incl = clinical dx of COPD defined by ATS, reduced forced expiratory ratios <70% Excl = walks independently, suffered from severe sensory/cognitive impairment, systematic ischemic heart disease, and practiced TCQ a year prior 		suggesting deterioration in activity domain Ctrl: worsened health status in all aspects of SGRQ-HKC, declines d/t increase of sx score by 4.5 units, activity score by 2.4 units impact score by 4.8 units and SGRQ by 4.0 units.	
Yuen 2002 Physical & Occupation	Evaluate impact of participation in an altruistic activity on elders in LTCF to	Level 3B E3	N=18 Grp1, tx, mentoring; n=9 (f=7. m=2)	I: Grp1 tx, mentoring– -paired with an ESL student -instructed to engage in normal	LSI-A mean scores pre and post for Grp1 showed sig \uparrow (t = 1.98, p = .042, one-tailed)	No random assignment Confounding variables, interpret with caution Pilot study

al Therapy in Geriatrics USA	improve life satisfaction		Grp2 ctrl, no mentoring; n=9 (f=7. m=2) Incl=pass pre-intervention eval on cog status, 1st language English, carry on conversation for an hour Excl=maladaptive behavior pattern, visual or hearing impairments (that could not be corrected by assistive devices)	conversation -met 1hr/wk for 3 consecutive wks -one-on-one basis -intent to foster autonomy of the residents through helping students improve English conversational skills Grp2 ctrl– -no student participated in usual social and recreational activities at LTCF O: LSI-A before and 1&½ to 2 mos later	Grp2, no sig. post scores lower than pre scores	
Burack et al. 2008 Activities, Adaptation & Aging United States	Examine the effects of providing nursing home residents with music of their own choosing and how this affects immediate satisfaction and global quality of life.	One group, pre-test, post-test study Level 3B of AOTA O4	 13 LTC participants ages 64-93 from urban nursing homes 9 female and 4 male Incl: subjects had to have adequate cognition and hearing to listen to music and participate in interviews Cognition was determined with a mini-mental score by a psychiatrist. An audiologist screened for hearing ability. 	Subjects completed the Global QoL pretest and the Music Background Questionnaire first. Subjects were then presented with 30 minutes of their chosen music After the music experimenter returned and subjects completed the Music Intervention Questionnaire followed by the Global QoL post-test.	Subjects expressed satisfaction in response to the music and desire for more. However, no differences were found in the global QoL measures before and after. Researchers were not surprised that one 30-minute presentation of music was not sufficient to improve QoL and more research is required.	Subjects were self-selected to participate in the study, so it limited the sample size. Subjects who participated all enjoyed music and felt it played an important role in their lives, it did not account for individuals who don't enjoy music. There was a small sample size so it is not generalizable. Participants received a single half hour session of listening which is a small amount of time to make an impact on overall feelings and well being

			Excl: subjects with hearing deficits or cognitive impairment			
Sullivan et al. 2019 Research in Gerontologi cal Nursing; Thorofare USA	Older adults (N = 93) who were transitioning to LTC facilities in Southeast Florida. Hypothesized that when transitioning to LTC : -sharing stories in groups could lead to reduced depression and improved well-being, -baseline sociodemographi c characteristics could predict depression and well-being	2 group RCT Level I E2	Assigned as individuals rather than assigning facilities as a whole N=41, intervention group received the story-sharing intervention and standard care, daily LTC activities N=52, control group received standard care. Incl= -willing to share stories in a group with others -age 65 and older -English speaking -Score of 3 on the Mini-Cog, -transitioning to a LTC facility within the past 2 years Excl= Participants with a total score 3 are described as screening positive for dementia	Story-sharing intervention was not effective in reducing depression or improving well-being in adults transitioning to LTC.	Sociodemographic characteristics may help identify individuals who are at risk for depression and reduced well-being. Further studies using story sharing with older adults who are depressed and report reduced well-being while transitioning to LTC may offer new insights. Sharing with others could uncover the many stories older adults have acquired and may result in new relationships and meaning. Creating meaning by story sharing could lead to well-being and a healthy transition end.	 Sample consisted of mainly White non-Hispanic individuals. greater Diversity might have offered unique findings to increase generalizability. A ceiling effect, occurred in the measurement of depression and well-being Intervention may not have been long enough to produce changes in depression and well-being. Seven participants who dropped out

Kerse et al. 2008 The British Medical Journal New Zealand	To assess the effectiveness of an activity programme in improving function, QoL, and falls in older people in residential care.	Cluster RCT Level I E2	N=682 Tx, $n=330$, goal setting and individualized ADLs Ctrl: $n=352$, social visits Incl = 65+ yr olds able to engage in conversations about a goal, able to remember the goal, and participate in a program to achieve the goal Excl = homes caring exclusively for young disabled patients or delivering only palliative care, residents unable to communicate to complete the study measures, had anxiety as a main diagnosis, acutely unwell, or	I: Residents were offered goal setting and individualized activities of daily living activity program O: Function (late life function and disability instruments, elderly mobility scale, FICSIT-4 balance test, timed up and go test), quality of life (life satisfaction index, EuroQol), and falls (time to fall over 12 months). Secondary outcomes were depressive symptoms and hospital admissions	70% participants completed the trial and the programme had no impact overall. A programme of functional rehabilitation had minimal impact for elderly people in residential care with normal cognition but was not beneficial for those with poor cognition. In residents with cognitive impairment, the likelihood of depression increased in the intervention group.	Unclear reporting of methods and participants Only 70 % of participants actually completed the study. Either a more intensive intervention or more effort in implementation would be needed to achieve functional improvement in this population.
			acutely unwell, or terminally ill			

Author, Year, Journal Abbrev, Country	Study Objectives	Study Design, Level of Evidence (AOTA, Res Pyr)	Participants: Number and selection, Description, Inclusion & Exclusion Criteria	Methods for Enhancing Rigor	Themes and Conclusions	Study Limitations
Cottrell & Gallant 2004 Physical and Occupationa 1 Therapy in Geriatrics USA	Examine the impact of the Elders Drum Project on QoL of participants Elders Drum Project: used drumming, singing, creative acts, activity group process, and community interaction	Phenomenology Semi-structured interviews, field observations, and archival data Q2	5 female participants (79-101 y/o) Conveniently selected by staff recommendations 4/5 participants receiving direct OT services. one discharged Incl cognitive functioning within normal limits, ability to understand purpose of study, informed consent	Participant coding interviews audio taped and transcribed Constant comparative method of the transcribed interviews and field notes Multiple reviewers and code/re-code method Peer reviewers and research mentor critiqued and analyzed categorization	 self concept: increased life satisfaction: improved health status: physical and psychological benefits altruism: emerged theme self efficacy: significance given to capabilities Valued role as participants → perceptions of feeling useful, happy, autonomous, wanted, worthy Group participation → cohesion Perceived physical health linked to subjective well-being 	Time constraints, limited number of participants Not representative of all participants, not generalizable to elder population
Cipriani et al.	Use qualitative methods to discover and	Phenomenology Level 3A	Convenience sampling of 7 females	Biases were identified to avoid suggested desired responses.	Theme of connectedness with 4 subthemes:	Only one man participated 3/7 females were in a religious
2010	explore the experiences and meaning of	Q2	1 male (all Caucasian) 65+ years old residing in	Triangulation was achieved.	1. creative/thoughtful activity	order w/an extensive hx of volunteer experience

British	altruistic		a muraina kama in		noonlo LTC hours 1	Equility policies and resulting
Journal of			a nursing home in	Des satistications in the second	- people LTC bound	Facility policies and regulations
	activities among		PA.	Pre-activity interviews	may want	limited transportation needed to
Occupationa	residents of an		a	used to create potential	something nice to	present floral arrangements
1 Therapy	LTC facility		3 participants were	activities to engage,	look at	
			members of a	while post-interviews	2. sense of	Reactions of recipients not recorded
United			religious order	were for elaboration of	community	but "well received"
Kingdom				topics	- sense of belonging	
			Incl: a LTC resident,		is important	Only one type of altruistic activity
			willing to participate	Interviews examined	3. facilitation of	was explored
			in altruistic activity,	by peers	reminiscence	
			able to attend 30-60		- family values and	
			min activity, and	Each researcher took	experiences	
			able to transport or	field notes, helped	cultivated their	
			be transported to	create MUs to code	present	
			activity site	responses, and	views/beliefs	
			2	synthesized and	4. reciprocity	
			<i>Excl:</i> resident is	compared each	- there was value in	
			bedridden or in later	participant's response	providing	
			stages of	summaries.	enjoyment and	
			Alzheimer's or		satisfaction to	
			mod/severe		others	
			dementia.			
			dementia.		Participants felt a	
					connectedness	
					between self and	
					others by using their	
					creativity displaying	
					consideration of the	
					reciprocal nature of an	
					altruistic act.	
Calencer P	Emplana	Dh an ann an al c	$N = 5 (f = 4 \dots = 1)$	Three in denth		Doutining outs limited to any setting
Schwarz &	Explore	Phenomenology	N=5 (f=4, m=1)	Three in-depth	Meaning and Purpose	Participants limited to one setting
Fleming	perspectives of	-Multiple	0 1 0	interviews, ranging	-spirituality helped	under one OT
Cottrell	spirituality	in-depth	Sample of	from 90 min to several	define true meaning	E 11, 001, 1 1, 1
2007	integrated into	interviews	convenience	hrs	and purpose in life	Facility affiliated religious group
2007	their OT					
		Q2		All interviews	Coping and Positive	Participants identified with strong
Physical &				conducted by same	Outlook	religious identity
Occupationa				person	-spirituality as	
1 Therapy in					instrumental in	Not generalizable to other
Geriatrics				Open-ended questions	enabling to cope with	populations

USA		Member checks Peer review Reflexivity Transcribed and coded	diversity of interactions and circumstances -optimistic outlook about future -effective coping, equipped to contend with difficulties	Interpretation of different narratives or alternative themes Limited to the interpretations of OT and 5 participants
			Reliance and Dependence -unyielding support to fall back on -spirituality deepened when met with illness or injury	
			Comfort and Consolation -God had a plan -Going to Heaven -found comfort in these beliefs	
			Hope for Recovery -integral to spirituality -allure of hope provides promise of recovery, that motivates and inspire positive attitude	
			Therapeutic Rapport -solidified their relationship with OTs -bonding -OT as positive role model -holistic approach considered all facets	

different aspects	Phenomenology Q2	N = 6 Incl: 60+ y/o, in last 6mo relocated to LTCF, English speaking, score of 5 or less on Short Portable Mental Status Questionnaire	Triangulation (with quantitative data) Supported by SWBS scores Interviews were audio taped, transcribed verbatim, & use of qualitative software NVivo for data analysis Coding scheme–reviewed, compared, redefined	and allowed clients to appreciate the value of OT services Overall, the concept of spirituality is unique yet there are strong commonalities Spirituality offers meaning and purpose, fundamental concepts to OT Hope/hopelessness for the future Some experienced a sense of hope and others thought the future did not look promising Sense of belonging in LTCF LTFC did not feel like home, but daily necessities met Contentment/disconte ntment w/ life Closely linked to pride in children's accomplishments, being able to take care of family, indulging in pleasurable life activities, being thankful for the gift of life Helped them find meaning and purpose	Small number of participants Underrepresentation of ethnic groups Use of spiritual well-being scale limited understanding and definition of spirituality
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					Personal religious beliefs Prepared to accept death graciously; relationship with God was a primary motivator Overall, perceived spirituality in different ways	
Polacsek &	The main	Qualitative	35 interviews were	Researchers undertook	3 Themes:	Participants were taken from one
Woolford	purpose of this research was to	O2 of management	conducted, including	'member checking' by	1. Overall	large multi-centre aged care
2022	explore resident,	Q2 of research pyramid	14 residents, 19 staff, one relative	summarizing, repeating participants'	transition experience	provider so the findings may not represent the views of residents,
2022	relative, and	pjiumu	and one volunteer.	words or actions in	2. Recognizing and	relatives and employees in different
BMC	staff experiences	Phenomenology	Residents' age	order to confirm	responding to	settings.
Geriatrics	of the transition	study	ranged from 70 to 92	participant	resident's mental	
Australia	into residential aged care in	Face to face	years	understanding and avoid	health needs 3. Tailoring	COVID-19 restrictions in place at the time affected recruitment of
Australia	order to identify	semi-structured	Participants were	misinterpretation.	support to	relatives and volunteers
	strategies to	interviews	taken from four	inisinterpretation.	individuals	
	reduce		residential homes in	Observations	needs	Residents with moderate to severe
	"relocation		Victoria,	undertaken at		dementia were not included in this
	stress" and		Australia—two in	residential homes	Residents involved in	research so results are less
	support the mental health of		cities and two in	recorded in detailed	the transitional	generalizable.
	older adults at		regional areas.	field notes.	process reported a better transition	
	this time		Purposive sampling	Both researchers read	experience	
			used to recruit	and re-read the		
			residents and staff	transcripts and	Staff reports knowing	
			who (i) were	interview notes.	a resident's hx prior to	
			currently living or		arrival allowed for	
			working in one of the four homes and	Researchers worked	better support of individuals.	
			(ii) could provide	independently to identify 'meaning	marviauais.	
			informed consent.	units', before coming	Residents having a	
				together to transform	sense of being	
					recognised and treated	

			Excl: those unable to provide informed consent, moderate to severe cognitive impairment and those who were currently in respite care; or had transferred from an acute setting.	the meaning units into common themes.	as an individual was important. Participants had a more positive experience if they could set their own routines and pursue their own interests.	
Walker & McNamara 2013 Australian Occupationa 1 Therapy Journal Australia	This study aimed to identify issues older adults face when relocating to retirement living, what strategies they used during this process, how they maintained a sense of home, and the potential for occupational therapy involvement.	Qualitative Q2 Semi-structured, in-depth interviews	16 adults, 65+ years of age Purposive and snowball sampling was used to recruit participants from six different retirement living facilities in the Perth metropolitan area. Incl: 'relatively healthy' older adults or older adults with medical conditions often associated with aging Excl: individuals who 'are older and frail and having difficulty with everyday tasks'	All interviews were recorded with the participants' permission and later transcribed verbatim. Member checking occurred during each interview and afterwards via follow-up phone calls Data analysis was conducted using a three stage approach: open coding, theoretical coding and selective coding. This began during the transcription process.	Four themes emerged - Timing of decision making - New beginnings - Continuity - Strategies for change Timing of relocation was critical to how individuals adjusted - Proactive relocation resulted in a more positive transition Individuals who were proactive in the relocation process engaged in new routines and occupations and created a new identity within the environment.	This study was reliant on participants self-selecting involvement. Results were dependent on those who had something to say, whether it was positive or negative so there is potential that those most dissatisfied did not choose to participate or vice versa. Interviews included only 16 individuals which is a limited number that cannot be generalized easily.

	The ability to continue previous lifestyles was very important to some residents.
	Having a role in making decisions, either about the relocation process or around modifying the physical space, was essential in order for the participants to be happy and content in their new homes.

Meta-Analyses/Meta-Syntheses/Systematic Review Evidence

	<i>22</i> 2	<i>2</i> /			1	
Author	Study	Study Design/	Number of Papers	Interventions &	Summary of Results	Study Limitations
Year	Objectives	Level of	Included, Incl/	Outcome Measures		
Journal		Evidence,	Excl Criteria			
Country		AOTA,				
·		Pyramid				
Durocher et	Scoping review	Level 1A	14 papers	I:	Use of art activities =	Possibility of having excluded
al.	of how art is			Group art activities	↑mood, QoL and	relevant papers
	used in LTC	E1/O1	Incl=visual and	most prominent	well-being, enhanced	
2021			material activities	_	communication and	Limit articles
				Varied types of art	reminiscence and	Only if accessible in English
Canadian			Excl=use of		social relationships	
Journal of			movement, musical	O:		
Occupational			art, commercial	Mood, ↑, better	Which overall	
Therapy			purpose art	understand and express	contribute to enhanced	
				one's feelings	well-being and QoL	
Canada				Better mood, in turn	where art activities are	
				contributes to \uparrow QoL	incorporated into LTCF	
				Overall QoL and		
				well-being ↑		
				Promoting		
				communication and		
				reminiscence		

Sullivan & Williams 2017 Journal of Gerontologic al Nursing USA	To provide an appraisal of older adults' transition experiences to LTC	Meta-Synthesis Level IA Q1	33 papers of original 181 eligible for study Incl: recent qualitative studies (published between 2005-2015) in the US/Canada published in English with a focus on adults 65+ transitioning to LTC (nursing home, SNF, ALF)	Opportunities for more and deeper relationships with others Themes/theoretical frameworks/domains listed under MMRTT's guide to current study: transition properties, transition conditions and/or transition pattern of response	Painful loss requires mourning process Stability south through gaining autonomy to sustain a new sense of self Acceptance occurs when a unique inner balance is reached	Small sample Settings generalizable in US and Canada Quantitative study may help examine predictors or healthy transitions
Cipriani et al. 2013 Physical and Occupational Therapy in Geriatrics USA	To determine whether residents of LTC facilities who received dog-assisted therapy achieved outcomes that can positively influence QoL, as compared to individuals who did not receive dog-assisted therapy	Evidence-based review Level IA E1/O1	19 studies included: 3 RCTs, 11 cohort studies, 4 before and after studies, and one single-case study design Incl = studies between 1990-2010 if they involved older adults, dogs, LTC facilities, measurable therapeutic outcomes, and information on sample size. Excl = studies doesn't involve use of dogs or if they	Txs involved at least one live dog - brushing, petting, talking to, playing catch with, holding, providing treats or food, verbalizing commands or tricks, playing catch, holding a leash or walking the dog, or reminiscing about dogs or animals in general. Outcomes examined: emotional regulation, ADL, communication/social cognitive, sensory-perceptual, and motor/praxis skills	12 of 19 studies reported significant results ($p \le 0.05$) supporting the effectiveness of the implemented AAT interventions.	Evaluation tools need to be considered Possibility of co-interventions affecting results Small sample size

Stern et al. 2020 JBI Evidence Synthesis USA	To synthesize and integrate the best available evidence on the impact of canine-assisted interventions on the health and well-being of older people residing in long-term care.	Systematic Review: will consider quantitative, qualitative and mixed methods studies. Quantitative and Qualitative Level 1A O1	unintentionally excluded participants with cognitive impairments 10 bibliographic databases with 2 previous systematic reviews performed 2011 - 2020 Incl = 60 years and older who reside in LTR facilities and receive CAIs. Excl= No exclusions based on medical conditions or comorbidities.	Quantitative portion will consider studies that evaluate CAIs. Interventions will be grouped as either canine-assisted activities or canine-assisted therapies.	Quantitative portion will consider studies that include outcomes related to health and well-being. Where possible, review outcomes will be grouped under the biopsychosocial model as follows: Biological Psychological Social Reviews indicate some small benefit in outcomes	The lack of methodological rigor in studies impacts on the results.
Cipriani 2007 Physical & Occupational Therapy In Geriatrics United States	This study had multiple purposes one was to review the research literature on altruistic activities of older adults living in (LTC) facilities and the other was to explore the implications of this research for the practice of	Systematic Review Level 4A D1	6 studies conducted by occupational therapists or reported in the occupational therapy literature ranging from 1987-2002	One study looked at whether altruism was a factor in choice of task participation by the elderly Another examined the effect of altruistic activity on the self-esteem of a group of elderly depressed persons. Another study examined effect of different types of activity (altruistic and	 6 key points were highlighted from this review: 1. Do not assume all LTC residents need to be altruistic 2. Having the choice to engage in the activity or not is important 3. Who they are serving plays a big role, intergenerational help appears particularly satisfying. 4. Altruistic activities can benefit 	Limited generalizability because most of the research was conducted on Caucasian women. Only 6 studies were reviewed, that is a small sample size. Articles were from 1987-2002, they might be a little outdated when compared to recent research.

	occupational therapy.			non-altruistic) on the morale of older adults in LTC facilities One study examined the impact of engaging in an altruistic activity on life satisfaction Another study looked at the use of a program (the Elders Drum Project) on QoL for LTC residents. The last study aimed to discover patterns of altruistic activities by 11 nursing home residents.	 community or even their peers 5. Residents can be active planners of the type of activities they are engaged in. 6. Social engagement and the opportunity for social engagement is critically important The enjoyment residents may feel from participation in altruistic activities may be underappreciated or overlooked by the OT profession. There is a need for OTs to learn a lot more about the need for and performance of altruistic activities and their role in planning interventions. 	
Vrkljan et al. 2019 International Psychogeriatr ics; Cambridge	This study aimed to examine the effectiveness of interventions that target the three most common transitions in later life;	Systematic review Level 1A D1	11 articles from Jan 2004-April 2016 9 were RCTs and 2 were of quasi-experimental Articles from 5 databases: MEDLINE (via	6 group interventions, 3 individual interventions and 2 combinations of group and individual Types of interventions included: cognitive narrative intervention,	Results indicate that interventions that support the mental health of older adults during times of major transition are critically important, however, there is limited evidence on specific	Not every study provided details regarding administration of intervention (timing, supervision and training) The qualifications of the individuals administering the interventions varied.

United Kingdom	bereavement, retirement, and relocation.		PubMed), EMBASE, CINAHL, the Cochrane Library, and PsycINFO. Incl: written in English at any publication date; evaluated an intervention designed to ease transition in later life; RCTs non-RCTs, and systematic reviews; evaluated an intervention that targets individuals; and focused on persons aged >50 years. Excl: did not have a control group or used qualitative research; and studies only available in abstract format.	visiting services, counseling programs, self-esteem workshops Outcome measures for depression anxiety, affect or psychiatric symptoms were used. Integrating analysis approach: A narrative synthesis of the results was conducted, which enabled a more detailed examination of the type of interventions used and their associated outcomes.	interventions that target the three most common events of bereavement, retirement, and relocation. Adults participating in group interventions should limit group size to 8-10 people to allow for active learning.	More studies are needed for sufficient evidence to identify interventions that prevent negative consequences.
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Abbreviations Key

AAT= Animal Assisted Therapy ADL = activities of daily living ALF = Assisted living facility ATS = American Thoracic Society BLG=Blended Workshop Group cap = capacity CAI=canine-assisted intervention CES-D =Center for Epidemiologic Studies Depression Scale cog = cognitive convo=conversation COPD = chronic obstructive pulmonary disease

ctrl = controlCRQ = chronic respiratory disease questionnaire D1= descriptives one dx = diagnosisE1= experimental 1 E2= experiential 2 EQ5D= European Quality of Life Five Dimension ESL=English as a Second Language Excl= exclusion criteria FES-I= Short Falls Efficacy Scale-International FFG=Face to Face Workshop Group FSO = Functional Status Ouestionnaire Grp = Group HRQL = health-related quality of life hx = historyICT = Information and Communication Technologies Incl= inclusion criteria LELQ= Lived Environment Life Quality LSI-Z = Life Satisfaction Index-ZLTC= long term care LTCF= long term care facility MMRTT = Melei's et al.'s middle range theory of transition mod= moderate MOS = Medical Outcomes Study Health Perception Scale MU= meaning units MSPSS = Multidimensional scale of perceived social support O1 = outcome 1O4 = outcome 4OT= occupational therapy PA= Pennsylvania PA₁= physically aggressive

PNA= physically non-aggressive pps = participants Q2= Qualitative 1 QoL=quality of life RAND SF-36 = RAND 36-item Short Form Health Survey RCT= randomized control trials sig. = significant SGRQ-HKC = St. George's Respiratory Questionnaire - Hong Kong Chinese SNF = skilled nursing facility SWBS=Spiritual Well Being Scale TCQ = Tai chi Qigong tx = treatment wk= week

Summary of Key Findings Summary of Experimental Studies

Three of the experimental studies focused on physical activity interventions, some with positive outcomes and others with no outcomes. Both a Tai Chi (Chan et al., 2010) and a therapeutic biking program (Bickmore et al., 2019) had positive outcomes and improved OoL when used as interventions for individuals within LTC facilities. However, one goal setting and individualized functional ADL activity program (Kerse et al, 2008) examining the effectiveness of improving function, QoL and falls, appeared to have minimal impact on individuals with normal cognition and no effect on those with poor cognition. A group occupation-based writing intervention focused on a life review had positive effects on expressed depressive symptoms (Chippendale & Bear-Lehman, 2012). Story sharing group interventions may be beneficial to provide individuals a different avenue to express their emotions and interests, therefore providing the practitioner with more insight on meaningful occupations. Creating meaning by story sharing could lead to well-being and a healthy transition end. (Sullivan et al., 2019). The effectiveness of an occupation-based cultural heritage intervention to facilitate adaptation to relocation into LTC showed an improvement in QoL (Hersch et al., 2012). Overall, most experimental studies appeared beneficial in creating meaningful relationships, increasing social participation, facilitating adaptation to relocation and therefore, resulted in improved QoL.

Summary of Outcome Studies

Outcome studies included in our research focused not only on increasing QoL scores in assessments pre/post, but also providing information regarding how these activities affected the participants after the intervention and long term. Scores in QoL may not have increased enough to show significance in all literature, but studies provided benefits for improving mood, promoting communication, reminiscence, and supporting the development and deepening of social relationships. Interventions included individualized leisure type activities involving music (Burack et al., 2008), art (Durocher et al., 2022), and integrating dogs in physical activities (Stern et al., 2020). These interventions show promise for use in the field specifically for the population and location our collaborator works with and in.

Summary of Qualitative Studies

Qualitative studies examined in our research provided a wide range of activities to consider when choosing appropriate interventions for increasing QoL. Interventions that included decision-making about the relocation process or physical space modification, especially in the transitional process, facilitated positive reported QoL and a positive transition experience from home to LTC facility (Walker & McNamara, 2013). Decision-making, even perceived small ones, allow opportunities to promote autonomy. By promoting autonomy, individuals can find their new sense of self and find balance in accepting their new roles (Sullivan & Williams, 2017). Fostering this sense of self and having an active role in the transitional process, through setting their own routines and the ability to pursue their interests, contribute to improved QoL (Polacsek & Woolford, 2022). To maintain a sense of self during transition, it was found that individuals stayed connected to their faith and spirituality. Individuals that choose to stay connected to their faith reported that they were provided purpose, comfort, hope, and a sense of belonging (Tsai et al., 2022; Schwarz & Fleming Cottrell, 2007). Another intervention that provided a sense of belonging was through participation in altruistic activities. Specifically, the Elders Drum Project (Cottrell & Gallant, 2004) was found to improve life satisfaction and gave clients

the opportunity to do something out of their normal routine, such as drumming and singing within their new community. Cipriani et al (2010) also used altruistic activities and catered to physical, psychological, and social needs which facilitated engagement among residents. Altruistic activities connect residents to their past and create association to their current status. Overall, providing a variety of autonomous and purposeful interventions for residents transitioning into a LTC facility best supports improved QoL.

Summary of Descriptive Studies

Before implementing interventions to address QoL it is important for OTPs to be knowledgeable on differences that may be present within the transitional experience. One of the descriptive studies reported gender differences that exist in transitional experiences, stating that mortality rates are higher for men after relocating to long-term care and that men struggle more than women with low mood and a lack of purpose after major life transition (Vrklijan et al., 2019). The descriptive studies explored OT interventions that target bereavement, retirement and relocation (Vrkljan et al., 2019) and altruistic activities (Cipriani, 2007). These two themes address the importance of understanding in the transition process into a LTC facility and the individual roles and identities important to clients.Insight on the size of group activities were also taken into account which may be useful for our collaborator in her LTC setting. For example, one of the articles discussed that group interventions are most successful with no more than 8-10 adults (Vrkljan et al., 2019). Although group interventions showed limited evidence targeting specific life events, the evidence found still supports the importance of addressing the mental health of older adults during a major transition period. Similarly, not all residents benefit from altruistic activities, however social participation and engagement is critically important and must be taken into consideration by OT practitioners. Altruistic activities created opportunities for social engagement and enjoyment that other clients may experience as well.

Implications for Practice *Implications for Consumers*

Clients who would benefit most from our findings are older adults transitioning into a long term care facility. Transitions can be from home, short term care, or acute care to a LTC facility. These transitions are often a time of high stress and negative emotions due to the disruption in roles, routines and aspects of everyday life. This disruption of daily life can have impacts on physical health, mental health as well as spirituality resulting in a decrease in overall QoL. Our research highlights different interventions that can be used to address not only physical health, but mental health and spirituality as well. Our research mainly focuses on older adult populations who have a diagnosis of stroke, TBI, COPD, diabetes, and CVD or comorbidities of dementia and Alzheimer's, so those individuals will have more information specific to their diagnosis. Literature found also supports populations of older adults who may also have potential for, but not limited to, mental health diagnoses of bipolar disorder, depression and anxiety, in hopes of increasing overall life satisfaction. Interventions focus on addressing ways to increase autonomy as independence may be decreased after a significant change in lifestyle or transition which will be significant in regaining roles or responsibilities prior to the change. Individuals whose roles and practices of spirituality have been altered due to a transition can also benefit from interventions giving them more freedom and the ability to engage in their preferred occupations.

Implications for Practitioners

Not all clinicians will utilize or respond to information the same way. Our research is specifically tailored to the older adult population transitioning to LTC facilities so information may not be as beneficial to younger populations or those in short term care. Our research also focuses on diagnoses that are specific to what our collaborator regularly sees within the aforementioned population. Outside of our inclusion criteria, our information may be beneficial for practitioners interested in interventions that affect QoL. Although it was in a specific environmental context, activities and recommendations may have potential to translate to similar populations. For example, our results may benefit clients already living in LTC facilities that are past the point of "transitioning" or potentially older adults living within a specific independent living community. We also included articles with minimal or no impact on QoL in individuals transitioning to LTC facilities, like an intervention using functional mobility programs to address ADLs. This was important for us to include in order to keep our practitioner and other practitioners informed of what interventions might not work with their clients.

Implications for Researchers

Limitations of the research reveal gaps of knowledge concerning the topic of QoL in the older adult population. The opportunities to fill these gaps of knowledge allow for research in this topic area to be more reliable, generalizable, and in-depth. Due to the controlled timeframe, our collaborator provided the most common diagnoses of individuals she works with for more convenient literature searches, however in the future it may be beneficial for researchers to examine how QoL is impacted in other older adults with different diagnoses, or no diagnoses. Although we included literature addressing multiple points of view, researchers should consider viewpoints not included in our search including diagnoses in our exclusion criteria. This may aid in understanding the breadth of interventions that may increase an individual's QoL for older adults in LTC facilities. For example, articles that discussed the QoL in "healthy" individuals or individuals residing in independent living or community dwellings were excluded and it might be useful in the future to include articles regarding this population. This future research might provide the opportunity for researchers to examine the generalizability of OT interventions aimed at QoL across varying populations.

As we progressed through our research, we noticed there was no standard for measuring QoL. While some research relied on interviews or family reports, other's used global questionnaires, standardized QoL measures or adapted standardized QoL assessments. Further research to examine these different measures of QoL to compare reliability and validity will be beneficial. One of the limitations of our research is the inability to adequately compare different interventions or research articles because of the differences in their QoL measures. More information regarding different QoL measures and their respective reliability or validity would be beneficial to allow a more successful comparison.

Bottom Line for Occupational Therapy Practice/ Recommendations for Best Practice

The wide range of OT interventions that can aid older adults in improving their quality of life helps occupational therapists to facilitate this population's transition to LTC. When the OT interventions allow older adults to maintain their individual identity and engage in meaningful occupations that they engaged in outside of the LTC, they are provided with the best opportunities to have a healthy transition into LTC. This is reflected in older adults

maintaining their autonomy, having opportunities to participate in activities outside their normal routine, and creating a sense of belonging in their new home. Social participation, such as group activities or story-sharing, are a large part of improving quality of life for individuals as it creates a sense of community for them. It is recommended that occupational therapists are cognizant of the interventions they use, as some interventions have been seen to have no impact on the overall QoL. OTPs need to be cognizant of interventions used, as some have shown no significant impact on the overall QoL. For example, one intervention of listening to music and a functional activity program did not show significant changes in QoL but improved client reports of mood. Although these interventions did not show significant improvements on the overall QoL they were shown to make small gains in perceptions of happiness, increased autonomy, and feelings of being worthy and valued. Other interventions, although not targeted at improving QoL, were found to improve mood, deepening social relationships within the LTC, which impacts QoL. Overall, incorporating OT interventions that are meaningful to older adults and supporting their physical, social, and emotional health will facilitate the transition to and life in their LTC in a healthy way that supports improving their QoL.

Involvement Plan

Introduction

Our research began with the question *What occupational therapy practices and interventions can be used to improve overall quality of life (QoL) for older adult long-term care residents?* In partnership with our collaborator, Lauren Gilliland, OTR/L, we aimed to find current as well as new interventions to improve QoL for individuals in a skilled nursing facility in the Villages community in Florida. Our collaborator was the only full-time OT at the time, and worked with clients in both short term and long term care facilities, but a majority of her time was spent in long term care. Understanding our collaborator's focus led us to the question of, *What occupational therapy interventions are shown to be effective for improving overall QoL in older adults transitioning into long-term care*?

Our collaborator was recently promoted to a director position and now focuses primarily on short-term care residents. Our research focused on her long-term care facility's demographic, however due to her role change, she will no longer utilize this research for her own implementation, but instead it would be shared with her fellow OT colleagues and certified occupational therapy assistants (COTAs) in the long term facilities she oversees. Our research aimed to provide a guide to implementing various interventions including key provisions, considerations, and precautions.

Needs Assessment

The topic of improving the QoL for individuals transitioning to LTC was brought to our research team directly by the collaborating practitioner. She expressed a lack of available research on the topic of occupational therapy interventions aimed specifically at improving QoL during this major life transition. As reiterated by a 2013 article, "relocations can be stressful and these environmental transitions can cause significant disruption to the person-environment and occupational fit, thus influencing health, well-being and quality of life" (Walker & McNamara, 2013). Over 80% of the client's seen at this facility are those transitioning to LTC, thus it is important for the entire care team, especially the OTs, to keep this disruption and major life transition in mind when providing care. These individuals are not only adjusting to their new or worsening diagnoses, but they are learning to adjust to their new living situations as well. This

loss of daily roles, habits, routines, and independence can generate increased amounts of stress for individuals making their daily life feel less meaningful and impacting their overall QoL. Our collaborating practitioner was eager for us to generate a knowledge translation product that gave her and her care team specific interventions that can be used in their everyday practice to improve the overall quality of life of their clients.

Life as a practicing OT or COTA can be very fast-paced with a heavy caseload in a LTC. When working in such an environment, conducting research often becomes less of a priority because the majority of time is spent with clients. We wanted to present our research in a way that is easily accessible for therapists in a fast-paced environment. It was also brought to our attention that the COTA's at her facility have not experienced research in as much depth as she has, so she requested that our knowledge translation product be written in layman's terms without requiring extra time to read and sift through many articles of research.

The overall goal of our knowledge translation product was to provide our collaborator with specific interventions, in a clear and concise way for her and her care team to implement in their everyday practice. We also wanted to provide a list of considerations for the OTPs to keep in mind when planning interventions to address QoL. Considerations were a recurring concept through our research efforts and were important to include. We planned to only provide interventions that had positive impacts on QoL in our knowledge translation product, however, after conversations with both our chair and our collaborator, we decided it was just as important to include interventions that were unsuccessful or had no impact as well. This not only helped to eliminate any bias in our research, but it also will be beneficial in the future for anyone implementing this research to know what interventions to avoid as well as which ones to implement. It was originally planned to provide a more in-depth binder consisting of all the different interventions researched and to provide the articles that accompanied this information as well. However, after further clarification from our collaborator, it was decided that this would not be the most functional way to provide this information for their setting. The COTA's and our collaborator are very busy throughout the day and sifting through a binder of research would be rather difficult for them. For this reason, we planned to create a spiral-bound notebook and coinciding pamphlets for each intervention. Creating this type of knowledge translation product was a way for us to not only provide easy access for OTPs to implement specific interventions, but also to provide a more detailed reference with information for anyone who has the time or curiosity to view it.

Knowledge Translation Activity

Our plan was to create a final product that featured two components; a spiral-bound notebook and coinciding pamphlets for each intervention. The notebook was arranged to include various interventions and peer-reviewed literature with a list of benefits, precautions and considerations. The idea was that OTPs will have the notebook as a more detailed clinic guide, and the pamphlets would give the OTPs quick access to key considerations for each intervention. Understanding the fast paced nature of our collaborator's practice setting, we thought it might be helpful to include the pamphlets for quick facts to reference on the go. We planned to store these pamphlets in the notebook but also allowed for them to be distributed separately as needed. References were also planned to be included to help aid in the further understanding of how QoL may be impacted for clients.

Context

Time, caseload, and practitioner productivity acted as barriers throughout the duration of this process and were taken into consideration when we created the knowledge translation product. The large sized skilled nursing facility provides different levels of care for clients and holds approximately 145 beds. When at full capacity, the OT's and COTA's have a very heavy workload. Our collaborator's facility is a fast-paced environment and therefore, it was important for us as researchers to quantify an approximate amount of time spent on interventions during an average client treatment session. This information was insightful to us as the research team because it will allowed us to tailor the knowledge translation product to prioritize and include the most time-efficient interventions.

Our collaborators' recent role transition to rehabilitation director, will enable her to convey and facilitate the importance of the value of the knowledge translation efforts through clear and effective communication. It can be impactful when the healthcare team shares a common vision, values, and understands the effectiveness of the interventions in improving QoL and are eager to implement it into their practice. Since our collaborator's facility included several COTA's, their scope of practice was taken into consideration. This was beneficial in identifying strengths and weaknesses of the interventions and therefore provided insight on what should be included within the knowledge translation product. It may take some time for our collaborator and other practitioners to adjust to the new change in directorship and our knowledge translation efforts may not be the highest priority. The OTs and COTAs may take some time to familiarize themselves and become comfortable implementing these QoL interventions through repetition and practice.

Knowledge Translation Effort

Our knowledge translation notebook was a compilation of various interventions based on groups of articles with a similar theme. Initially, our idea was to include pamphlets per our collaborator's request for an additional and more detailed product for COTAs. Due to time constraints of needing to finish our product with enough time to send our collaborator and other OTs copies, we created a product with enough information useful for all of its consumers.

The 20 articles included in our research were reviewed and grouped into seven themes for the notebook. The themes included healthy transitions to long term care, culture and art, activities promoting altruism, music, spirituality, exercise-based interventions, and animal assisted therapies. This proved to be the longest part of this process because a few interventions could have fallen under multiple themes. The deciding factor for each article was the type of intervention implemented in that particular study and the overall results for how an intervention could impact an individual transitioning into a long term care facility. Once each article was grouped into a theme, we divided up the themes for each researcher to report on possible interventions, overall benefits, important considerations and precautions/limitations. The most difficult part of this process was organizing the information in a legible and easy layout for OTPs interested in an intervention within that theme. It was important for our product to be utilized as a reference for the benefits and considerations of each intervention and not chosen solely based on the interventions. We recognized that individuals are unique and interventions need to be client-centered. We also wanted to include details such as materials used for each intervention, but decided to exclude these for organization purposes to keep each theme to one or two full pages for brevity. Benefits, considerations, and precautions were important to include for safety and best practice, therefore listing the interventions was the most efficient way to condense all of this information to one page.

Having seven themes worked, as each of the four researchers were responsible for two to four articles within each of their themes. One researcher had one theme with five articles but the work was still split evenly. We decided that each researcher would write a short explanation of the theme and its impact on an individual transitioning into LTC. Main benefits and important considerations when choosing one of the specified interventions were included. This would help therapists of any specialty to consider specific details of their client or the overall benefit of the intervention displayed. We also thought limitations would be important to report as some studies were limited by things such as specific population, which may be a factor when choosing those interventions. Including these inform OTPs to know the limitations of an intervention and how the interventions could impact the client.

In terms of organization, we wanted our information to be clear, easy to read with resources to show evidence-based practice. This process was somewhat challenging as we wanted to include more information than what we had in our final product. Utilizing a shared document helped us to focus and narrow the information and remain consistent throughout the notebook. Each researcher was able to see the progress of the other researcher's work. If one researcher had difficulties with simplifying the information to fit the page, or organizing the information on the page, another researcher would look over the information and/or organization of the page and make suggestions. The two remaining researchers would look over the updated information and organization and make comments, even if it was to say we agreed with the changes. We all shared our opinions and finalized each page in the final product to make sure it was up to all of our expectations (see Appendix C).

For our outcomes questionnaire (see Appendix D), we initially had to think of our purpose. It was not to see if the interventions were effective or not, but to see if the information included in our notebook could potentially provide a new perspective or new outlook on current interventions used, or if new interventions introduced for this specific population could be implemented. We also wanted to see if the organization was clear, concise, and easy to navigate with appropriate language for not only OTPs, but the rest of the rehabilitation team that might be interested in using our product. These goals made it easy to create questions for specific anticipated answers. Our collaborator informed us that the notebook should be something that could be referenced quickly so we wanted to include questions addressing her concern. Focusing on the ease and efficiency of the layout and organization of information was a primary focus. Compiling the questions and putting it into a Google form was another easy way for us to organize responses from multiple therapists and analyze data.

Tasks	Date
 Dividing similar articles into 7 themes: Healthy Transitions to LTC Culture and Art Altruistic Activities Music Spirituality Exercised-based Intervention Animal Assisted Therapy 	Late January
Each researcher was given one or two themes to create a page for the notebook. Each page included: interventions, benefits, considerations and precautions/limitations	Early February
Researchers talked with the collaborator and gave her a general idea of what the notebook would look like to receive her initial feedback. Collaborator had positive feedback and told the team she was eager to see the finished product.	Late February
Each researcher created their intervention page or pages, and were compiled into a notebook form to reflect the collaborator's suggestions.	Early to mid March
First draft sent out to the project chair for review and feedback.	Mid March

Workflow

Revisions were made based on the project chair's recommendations.	Mid March
An electronic version of the final KT product was sent out to the collaborator for initial review. She was notified that hard copies would be coming in the mail.	Late March
Three hard copies were printed and spiral bound through UPS Printing and Copy Services	Late March
The hard copies were sent out to the collaborator via USPS.	Late March - received early April
A draft of the post-knowledge translation questionnaire (via Google form) was sent to the project chair for review and feedback before sending out to collaborator.	Early April
Feedback received and changes made.	Mid April
Final draft of post-knowledge translation questionnaire sent to collaborator.	Mid April

Outcomes Monitoring

To monitor the effectiveness of our knowledge translation efforts, an electronic copy of the notebook was sent to the collaborator. Upon emailing the electronic copy to the collaborator, the research team communicated that hard copies would be sent in the mail, but requested initial feedback from the collaborator on the notebook. The collaborator provided positive feedback regarding how the information was well-organized in easy to read bullet points with a simple layout that appeared effective in drawing attention to the information. She also expressed her excitement to receive the hard copies in the mail.

Once the hard copies of the notebook were mailed and received by the collaborator, a post-knowledge translation Google-form questionnaire (see Appendix D) was provided. This questionnaire was created not only for our collaborator to fill out, but also any other OTPs on her

team who may use the knowledge translation notebook. The survey included six questions with two or three multiple choice options to increase ease of answering questions quickly. These questions were included to understand the following: language and readability, layout and design, current interventions implemented, new evidence-based interventions and future use of notebook. Four questions required written responses and examined interventions already implemented in the practice setting, new interventions and which ones practitioners are interested in implementing and suggestions to make the notebook more clear or better organized. These open ended questions were used to analyze possible changes that can be enacted to the notebook to increase effectiveness and usefulness of this resource for OTPs.

Evaluation of Outcomes

The post-knowledge translation questionnaire (see Appendix D) permitted the research team to determine the effectiveness of language and readability, layout and design, and usefulness of the resource notebook. The OTPs were given three weeks to navigate the notebook and respond to the survey. Three responses, one from an OTR/L and two from COTAs, were collected from the questionnaire. The questionnaire results indicated that the language in the notebook was clear and concise, and the layout was easy to navigate and locate information. The respondents did suggest more continuity between different intervention pages and the COTA's specifically requested more detail on the implementation of interventions. For utilizing interventions found in the notebook, all OTPs stated that the information provided by the notebook will be helpful in choosing an intervention for their client.

Questions were provided to have a better understanding of what interventions were already implemented in their practice and which ones they intend to implement. We discovered one of the OTPs implements altruistic and animal therapy interventions in their current practice, while other respondents expressed that none of the interventions in the notebook have been implemented in their practice. Interventions that were new to OTPs at this setting included spirituality, altruism and music. Tai chi, music, and altruistic were found to be the interventions that OTPs were most interested in implementing to improve QoL in the transitioning older adult population. When asked about the use of evidence-based interventions in their current practice, the OTR/L answered yes while the two COTAs were unsure about their evidence-based practice use.

Researchers were hoping to receive more questionnaire responses because this small sample size (N=3) limits the researchers' understanding of the effectiveness of the notebook. In the future, it may be beneficial for the collaborator to designate time during a staff meeting for OTPs to fill out the questionnaire to ensure more responses and provide a larger data set for analysis. The notebook was generated to be a general resource to help brainstorm different interventions that improve QoL in older adults transitioning to LTC, however, the COTA's suggested more detail regarding the implementation of interventions. In order to address the suggestions made by the COTA's, it may have been beneficial for the notebook to contain more structure on each intervention and specific instructions on implementing them within this practice setting, but due to time constraints with the evidence-based project, this was not feasible for the researchers. Overall, the OTPs reported that they plan to use this notebook in the future and the results of the questionnaire were positive.

Recommendations

The specific population of older adults transitioning to LTC was an area with major gaps in the research. The research focused on diagnoses within the collaborator's scope of practice, but did not incorporate diagnoses such as dementia and Alzheimer's. Therefore, we recommend future research to be conducted that focuses on QoL in older adults with dementia and Alzheimer's. In addition, the majority of the literature included a more generalized scope regarding QoL for older adults within LTCs. However, there was a lack of information on how these interventions may translate across specific diagnoses within this population, so it is also recommended that future research should focus on the benefits and possible contradictions of certain QoL interventions within specific diagnoses.

None of the research found looked at the specific time period of transitioning to LTC while also looking at QoL interventions. This time period of older adults can be especially difficult because of large role change, routine change, and a significant change of independence and possibly identity. Future research could measure QoL during transition to long term care, such as measuring QoL at the start of their stay in LTC and after implementation of QoL interventions for 3 to 6 months. This would give a more focused picture of how to support older adults and their QoL during this transition period.

Additionally, there was no consistent or standardized tool to measure QoL that was found throughout the research. Much of the research was based on qualitative research, and QoL-related themes were created based on the interviews or family reports. There was a range of global questionnaires, standardized QoL measures, or adapted QoL assessments. There were no specific QoL measures used that reflect the occupational therapy framework. Further research could be focused on the creation or implementation of a QoL measure reflective of the OT framework. Another direction could be examining the different measures of QoL, comparing reliability and validity. This would support and strengthen the rigor of the research with a consistent standard of QoL measures. Due to the variety in types of interventions, as they range from music to animal-assisted therapy to altruistic activities, it may be beneficial to explore how these interventions may or may not work together. This informs the ability to use QoL interventions together. Future research could be conducted on programming that incorporates various interventions and how that affects QoL in older adults transitioning. Similarly, addressing QoL in LTC residents should go beyond the interventions within the scope of occupational therapy. It is important for caregivers to be educated and trained on the ability to address the QoL of their family members outside of their OT sessions. Creating a continuum of care centered around promoting and maintaining QoL for clients would generate a positive transitional experience and improve the overall QoL in their new residence.

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https://doi-org.ezproxy.ups.edu:2443/10.3109/02703181.2013.816404

Cipriani J, Haley R, Moravec E, & Young H. (2010). Experience and meaning of group altruistic activities among long-term care residents. *British Journal of Occupational Therapy*,

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https://doi-org.ezproxy.ups.edu:2443/10.4276/030802210X12759925468989.

Cottrell, R., & Gallant, K. (2004). The elders drum project: enhancing quality of life for long-term care residents. *Physical & Occupational Therapy in Geriatrics*, 22(2), 57–79. <u>https://doi.org/10.1080/J148v22n02_05</u>

Durocher, E., Njelesani, J., & Crosby, E. (2022). Art activities in long-term care: A scoping review. *Canadian Journal of Occupational Therapy*, 89(1), 36–43. https://doi-org.ezproxy.ups.edu:2443/10.1177/00084174211064497

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 <u>https://doi.org/10.5014/ajot.2012.002394</u>
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Appendix A

Master Citation Table

Citation	Include (from abstract)	Maybe (Explain) (from abstract)	Final decision Y/N (from paper)	If No, reason to exclude	Reviewer
Kumar, P., Tiwari, S. C., Goel, A., Sreenivas, V., Kumar, N., Tripathi, R. K., Gupta, V., & Dey, A. B. (2014). Novel occupational therapy interventions may improve quality of life in older adults with dementia. <i>International Archives of</i> <i>Medicine</i> , 7, 26. https://doi.org/10.1186/1755-7682-7-26	-use of QoL assessment -experiment		N	main condition: dementia	KS/SB
 Szanton, S. L., Thorpe, R. J., Boyd, C., Tanner, E. K., Leff, B., Agree, E., Xue, Q. L., Allen, J. K., Seplaki, C. L., Weiss, C. O., Guralnik, J. M., & Gitlin, L. N. (2011). Community aging in place, advancing better living for elders: a bio-behavioral-environmental intervention to improve function and health-related quality of life in disabled older adults. <i>Journal of the American Geriatrics Society</i>, <i>59</i>(12), 2314–2320. https://doi.org/10.1111/j.1532-5415.2011.03 698.x 	-increase of QoL -shows use of team that with OT primary	-coordinated OT w/ RN and handyman -QoL is 2ndary measure -general OT provided, no specific intervention -results: better QoL	N	-no real intervention, gen. tx (specific to client)	KS/LV
Clark, F., Azen, S. P., Carlson, M., Mandel, D., LaBree, L., Hay, J., Zemke, R., Jackson, J., & Lipson, L. (2001). Embedding	-Well Elderly Study -preventive OT	-does not use a direct QoL assessment	Y		KS

health-promoting changes into the daily	-therapeutic				
lives of independent-living older adults:	gain				
long-term follow-up of occupational therapy	Buill				
intervention. The Journals of Gerontology.					
Series B, Psychological Sciences and Social					
<i>Sciences</i> , <i>56</i> (1), P60–P63.					
https://doi.org/10.1093/geronb/56.1.p60					
Sheffield, C., Smith, C. A., & Becker, M.	-restorative OT,		Y		KS
(2013). Evaluation of an agency-based	"usual care"				
occupational therapy intervention to	- increase of				
facilitate aging in place. <i>The Gerontologist</i> ,	QoL,				
53(6), 907–918.	assessment				
https://doi.org/10.1093/geront/gns145					
Clark, F., Azen, S. P., Zemke, R., Jackson,		-randomized	Ν	-published	KS
J., Carlson, M., Mandel, D., Hay, J.,		control trial		before 2000	
Josephson, K., Cherry, B., Hessel, C.,		-use of social			
Palmer, J., & Lipson, L. (1997).		activity as tx			
Occupational therapy for independent-living		-QoL measures			
older adults. A randomized controlled trial.		-increase QoL			
<i>JAMA</i> , 278(16), 1321–1326.					
Wilkins, S., Jung, B., Wishart, L., Edwards,	-use of	-literature	Y		KS
M., & Norton, S. G. (2003). The	education,	review			
effectiveness of community-based	functional		-if cannot use		
occupational therapy education and	training		specifically,		
functional training programs for older	programs		can utilize		
adults: a critical literature review. Canadian	-QoL as		articles in this		
Journal of Occupational Therapy. Revue	measure		lit review		
<i>canadienne d'ergotherapie, 70</i> (4), 214–225.	-found effective				
https://doi.org/10.1177/00084174030700040					
5					
Frederick, J. T., Steinman, L. E., Prohaska,			Ν	-not specific	KS
T., Satariano, W. A., Bruce, M., Bryant, L.,				enough to OT	
& Late Life Depression Special Interest				-broad	

Project Panelists. (2007). Community-based treatment of late life depression: an expert panel–informed literature review. <i>American</i> <i>Journal of Preventive Medicine</i> , 33(3), 222-249.				 looking at articles specifically in interventions for depression focused too much on individuals with depression and not LTC individuals 	
Tsai, K., Chang, P. J., Mathew, A. J., Richard, C., Davidson, H. A., & Hersch, G. I. (2022). Exploring Spirituality of Elders Relocating into Long-Term Care Facilities. <i>The Open Journal of Occupational Therapy</i> , 10(2), 1-11. https://doi.org/10.15453/2168-6408.1959	-spirituality as contributor to QoL -transition to LTC -qualitative interviews and coding \rightarrow QoL -focus on int.		Y		KS
Durocher, E., Njelesani, J., & Crosby, E. (2022). Art Activities in Long-Term Care: A Scoping Review. <i>Canadian Journal of</i> <i>Occupational Therapy</i> , <i>89</i> (1), 36–43. https://doi-org.ezproxy.ups.edu:2443/10.117 7/00084174211064497	-art → improve QoL - social participation & therapeutic	-scoping review	Y		KS/SB
Cottrell R., & Gallant K. (2003). The Elders Drum Project: enhancing quality of life for long-term care residents. <i>Physical &</i> <i>Occupational Therapy in Geriatrics, 22</i> (2), 57–79.	-specific int. -qualitative -concepts of QoL		Y		KS

O'Sullivan G. (2004). Leisure activity programming: promoting life satisfaction and quality of life for residents in long-term care. <i>New Zealand Journal of Occupational</i> <i>Therapy</i> , <i>51</i> (2), 33–38.		-speaks of planning, assumed lead into specific interventions	N	-too broad -explains OT and concept of interventions	KS
McPhee SD, & Johnson T. (2000). Program planning for an assisted living community. <i>Occupational Therapy in Health Care</i> , <i>12</i> (2/3), 1–17. https://doi-org.ezproxy.ups.edu:2443/10.130 0/J003v12n02 01	-use of a model of wellcare -domains → QoL		Y		KS
Martínez-Alcalá C., Rosales-Lagarde A., Alonso-Lavernia M., Ramírez-Salvador J., Jiménez-Rodríguez B., Cepeda-Rebollar R., López-Noguerola J., Bautista-Díaz M., & Agis-Juárez R. (2018). Digital Inclusion in Older Adults: A Comparison Between Face-to-Face and Blended Digital Literacy Workshops. <i>Frontiers in ICT, 5</i> . https://www.frontiersin.org/articles/10.3389/ fict.2018.00021	-digital literacy -keeping up with the time → increase QoL	-measure capability to learn on diff. platforms -attitude, intention	Y		KS
Cipriani J. (2007). Altruistic activities of older adults living in long term care facilities: a literature review. <i>Physical &</i> <i>Occupational Therapy in Geriatrics, 26</i> (1), 19–28. https://doi-org.ezproxy.ups.edu:2443/10.108 0/j148v26n01 02	-altruistic activities on QoL	-lit rev	Y use of articles in lit rev		KS
Smith, H. N., & Fields, S. M. (2020). Changes in older adults' impairment, activity, participation and wellbeing as measured by the AusTOMs following participation in a Transition Care Program.	-Transition Care Program	-use of AusTOMS-OT scale, does not directly	N possible use of cited articles?	In results section, speaks of inconclusive	KS

Australian Occupational Therapy Journal, 67(6), 517–527. https://doi-org.ezproxy.ups.edu:2443/10.111 1/1440-1630.12667		measure quality of life		impacts on quality of life	
Cipriani J, Haley R, Moravec E, & Young H. (2010). Experience and meaning of group altruistic activities among long-term care residents. <i>British Journal of</i> <i>Occupational Therapy</i> , <i>73</i> (6), 269–276. https://doi-org.ezproxy.ups.edu:2443/10.427 6/030802210X12759925468989	-altruistic activity: creation of flower arrangements and greetings cards -interviews and field notes -increase sense of connection		Y		KS/SB
Duncan-Myers AM, & Huebner RA. (2000). Relationship between choice and quality of life among residents in long-term-care facilities. <i>American Journal of Occupational</i> <i>Therapy</i> , 54(5), 504–508.	-association between personal control and QoL -increase of personal control ass. w/ QoL		Y		KS/SB
Cipriani, J., Cooper, M., DiGiovanni, N. M., Litchkofski, A., Nichols, A. L., & Ramsey, A. (2013). Dog-Assisted Therapy for Residents of Long-Term Care Facilities: An Evidence-Based Review with Implications for Occupational Therapy. <i>Physical &</i> <i>Occupational Therapy in Geriatrics, 31</i> (3), 214–240. https://doi-org.ezproxy.ups.edu:2443/10.310 9/02703181.2013.816404	-dog-assisted therapy -McMaster's Critical Review Form–Quantitat ive Studies -increase QoL	-lit review	Y		KS

Green, S., & Acheson Cooper, B. (2000). Occupation as a Quality of Life Constituent: A Nursing Home Perspective. <i>British</i> <i>Journal of Occupational Therapy</i> , <i>63</i> (1), 17–24. https://doi-org.ezproxy.ups.edu:2443/10.117 7/030802260006300104	-qualitative -semi-structured interviews -flexible and creative use of resources	-lit review	Y	KS
Chan, A. W., Lee, A., Suen, L. K., & Tam, W. W. (2010). Effectiveness of a tai chi qigong program in promoting health-related quality of life and perceived social support in chronic obstructive pulmonary disease clients. <i>Quality of Life Research</i> , <i>19</i> (5), 653–664. https://doi.org/10.1007/s11136-010-9632-6		 demographics not mentioned in abstract not in a LTC facility but relates to a chronic/long term issue 	Y	LV
Vaapio, S., Salminen, M., Vahlberg, T. <i>et al.</i> Effects of risk-based multifactorial fall prevention on health-related quality of life among the community-dwelling aged: a randomized controlled trial. <i>Health Qual</i> <i>Life Outcomes</i> 5, 20 (2007). https://doi.org/10.1186/1477-7525-5-20	- most elderly in our inclusion age range can have high fall risk, so prevention can be helpful for our population		Y	LV
Boorsma, M., Frijters, D. H., Knol, D. L., Ribbe, M. E., Nijpels, G., & van Hout, H. P. (2011). Effects of multidisciplinary integrated care on quality of care in residential care facilities for elderly people: A cluster randomized trial. <i>Canadian</i> <i>Medical Association Journal</i> , 183(11). https://doi.org/10.1503/cmaj.101498	- gives insight on what types of care impact the quality of life for those in residential care facilities		Y	LV

Tsang, T., Orr, R., Lam, P., Comino, E. J., & Singh, M. F. (2007). Health benefits of Tai Chi for older patients with type 2 diabetes: the "Move It For Diabetes study"a randomized controlled trial. <i>Clinical</i> <i>interventions in aging</i> , 2(3), 429–439.	-potential fun, alternative intervention		Y	LV
Kerse, N., Peri, K., Robinson, E., Wilkinson, T., Randow, M. v., Kiata, L., Parsons, J., Latham, N., Parsons, M., Willingale, J., Brown, P., & Arroll, B. (2008). Does a functional activity programme improve function, quality of life, and falls for residents in long term care? cluster randomised controlled trial. <i>BMJ</i> , 337(oct09 3). https://doi.org/10.1136/bmj.a1445	- functional activity programs may not be for everyone but can be considered for some dx's		Y	LV
Sun, C., Ding, Y., Cui, Y., Zhu, S., Li, X., Chen, S., Zhou, R., & Yu, Y. (2021). The adaptation of older adults' transition to residential care facilities and cultural factors: A meta-synthesis. <i>BMC Geriatrics</i> , <i>21</i> (1). https://doi.org/10.1186/s12877-020-01987- w	- background info for adapting to residential care facilities	some cultural factors may not apply to resident population	Y	LV
Petrucha, R. R. A., Hansen, E. G., Ironside, L. D., Lafrance, O. J. M., Bryce, R. D. T., Jacobson, N. A., & Ramsden, V. R. (2022). Addressing the long-term care crisis: Identifying opportunities for improvement using rapid reviews. <i>Canadian Geriatrics</i> <i>Journal</i> , <i>25</i> (1), 79–87. https://doi.org/10.5770/cgj.25.535	 more recent and related factors of COVID looks at strengths/ opportunities 		Y	LV

	for change within LTC - current evidence for provider strategies to improve pt-centered care - adv care directives meaningful to individuals in LTC			
Grady, K.L., de Leon, C.F.M., Kozak, A.T. <i>et al.</i> Does self-management counseling in patients with heart failure improve quality of life? Findings from the Heart Failure Adherence and Retention Trial (HART). <i>Qual Life Res</i> 23, 31–38 (2014). https://doi.org/10.1007/s11136-013-0432-7		- not in LTC facility but deals with long term issue	Y	LV
Van Malderen, L., Mets, T., & Gorus, E. (2013). Interventions to enhance the Quality of Life of older people in residential long-term care: a systematic review. <i>Ageing</i> <i>research reviews</i> , <i>12</i> (1), 141–150. https://doi.org/10.1016/j.arr.2012.03.007	- article matches our focus exactly		Y	LV
Sullivan, G. J., & Williams, C. (2017). Older adult transitions into long-term care: A meta-synthesis. <i>Journal of Gerontological</i> <i>Nursing</i> , <i>43</i> (3), 41–49. https://doi.org/10.3928/00989134-20161109 -07	- themes of 1. painful loss requiring mourning, 2. seeking stability through gaining autonomy, 3.	- meta-synthesis	Y	LV

	acceptance of			
	inner balance			
Polacsek, M., & Woolford, M. (2022).		- "Relocation	Y	LV
Strategies to support older adults' mental		stress" is a risk		
health during the transition into residential		factor for		
aged care: A qualitative study of multiple		anxiety/depress		
stakeholder perspectives.		ion - unclear if		
https://doi.org/10.21203/rs.3.rs-1215115/v1		article was for		
		clients dx'd		
		with a mood		
		disorder		
		- looks at		
		factors		
		affecting stress		
		- good for		
		potential		
		preventative		
		measures that		
		can be used		
Vrkljan, B., Montpetit, A., Naglie, G.,		- systematic	Y	LV
Rapoport, M., & Mazer, B. (2018).		review		
Interventions that support major life		- population in		
transitions in older adulthood: A systematic		included		
review. International Psychogeriatrics,		articles were		
<i>31</i> (3), 393–415.		<i>mostly</i> 60+ yrs		
https://doi.org/10.1017/s1041610218000972		with some		
		including 55+		
		yr individuals		
Wareing, S., & Sethares, K. A. (2021).	- personality,	- CNAs	Y	LV
Personal, social and cultural factors	social and	provided		
affecting elders' transitions to long term	cultural factors	valuable		
care: Certified nursing assistant	play a role in	insight on		
perspectives. Applied Nursing Research, 59,		factors		

151419. https://doi.org/10.1016/j.apnr.2021.151419	transition process	affecting adaptation to LTC		
Tracy, J. P., & DeYoung, S. (2004). Moving to an assisted living facility: Exploring the transitional experience of elderly individuals. <i>Journal of Gerontological</i> <i>Nursing</i> , <i>30</i> (10), 26–33. https://doi.org/10.3928/0098-9134-2004100 1-09	- good background info for looking at the transition experience for elderly		Y	LV
Freeman, S., Bishop, K., Spirgiene, L., Koopmans, E., Botelho, F. C., Fyfe, T., Xiong, B., Patchett, S., & MacLeod, M. (2017). Factors affecting residents transition from long term care facilities to the community: A scoping review. <i>BMC Health</i> <i>Services Research</i> , <i>17</i> (1). https://doi.org/10.1186/s12913-017-2571-y	- good for background info - 65+ age population	- practices to support the discharge and transition process	Y	LV
 White-Chu, E. F., Graves, W. J., Godfrey, S. M., Bonner, A., & Sloane, P. (2009). Beyond the medical model: The culture change revolution in long-term care. <i>Journal of the American Medical Directors Association</i>, <i>10</i>(6), 370–378. https://doi.org/10.1016/j.jamda.2009.04.004 	- POV to change philosophy from emphasis on safety, uniformity and medical issues toward resident-directe d, consumer driven health promotion and quality of life		Y	LV

Yoshida, I., Hirao, K., & Nonaka, T. (2018). Adjusting Challenge-Skill Balance to Improve Quality of Life in Older Adults: A Randomized Controlled Trial. <i>The American</i> <i>journal of occupational therapy : official</i> <i>publication of the American Occupational</i> <i>Therapy Association</i> , 72(1), 7201205030p1–7201205030p8. https://doi.org/10.5014/ajot.2018.020982	-RCT on 56 older adults receiving OT sessions	-speaks to using skill balance to improve quality of life in older adults -is unclear weather these are LTC older adults or not	Y	ММ
Walker, E., & McNamara, B. (2013). Relocating to retirement living: An occupational perspective on successful transitions. <i>Australian Occupational</i> <i>Therapy Journal</i> , <i>60</i> (6), 445–453. https://doi-org.ezproxy.ups.edu:2443/10.111 1/1440-1630.12038	-looks specifically at adults who have transitioned into LTC's and how to improve quality of life -seems like a great article !		Y	ММ
Burack, O. R., Jefferson, P., & Libow, L. S. (2002). Individualized music: A route to improving the quality of life for long-term care residents. <i>Activities, Adaptation &</i> <i>Aging, 27</i> (1), 63–76. https://doi-org.ezproxy.ups.edu:2443/10.130 0/J016v27n01_05	-looks at how music of choice can be used to improve QoL in LTC residents	-might not focus enough on transitioning but still might be useful	Y	ММ
Cordes, T., Bischoff, L. L., Schoene, D., Schott, N., Voelcker-Rehage, C., Meixner, C., Appelles, L. M., Bebenek, M., Berwinkel, A., Hildebrand, C., Jöllenbeck, T., Johnen, B., Kemmler, W., Klotzbier, T., Korbus, H., Rudisch, J., Vogt, L., Weigelt, M., Wittelsberger, R., Zwingmann, K.,	-exercise intervention aimed at improving wellbeing in nursing home residents		Y	ММ

Wollesen, B. (2019). A multicomponent exercise intervention to improve physical functioning, cognition and psychosocial well-being in elderly nursing home residents: a study protocol of a randomized controlled trial in the PROCARE (prevention and occupational health in long-term care) project. <i>BMC Geriatrics</i> , <i>19</i> (1), 369. https://doi.org/10.1186/s12877-019-1386-6				
McGuire, F. A. (1984). Improving the quality of life for residents of long term care facilities through video games. <i>Activities,</i> <i>Adaptation & Aging, 6</i> (1), 1–7. https://doi-org.ezproxy.ups.edu:2443/10.130 0/J016v06n01 01		N	-published in 1984, before our 2002 cutoff	ММ
Shryock, S. K., & Meeks, S. (2020). Activity, activity personalization, and well-being in nursing home residents with and without cognitive impairment: An integrative review. <i>Clinical Gerontologist:</i> <i>The Journal of Aging and Mental Health</i> . https://doi-org.ezproxy.ups.edu:2443/10.108 0/07317115.2020.1844356	-good article on personalized and meaningful activities improving the QoL	Y		MM
Koponen, T., Honkasalo, ML., & Rautava, P. (2018). Cultural plan model: Integrating cultural and creative activities into care units for the elderly. <i>Arts & Health: An</i> <i>International Journal of Research, Policy</i> <i>and Practice</i> , <i>10</i> (1), 65–71. https://doi-org.ezproxy.ups.edu:2443/10.108 0/17533015.2017.1315436	-good article on the importance of incorporating cultural aspects into OT interventions	Y		MM

McQueen, A. E. (2013). Humor-related social exchanges and mental health in assisted living residents [ProQuest Information & Learning]. In <i>Dissertation</i> <i>Abstracts International Section A:</i> <i>Humanities and Social Sciences</i> (Vol. 73, Issue 12–A(E)).	-using humor to improve QoL in LTC or assisted living facilities		Y	ММ
Stern, C., Lizarondo, L., Carrier, J., Godfrey, C., Rieger, K., Salmond, S., Apóstolo, J., Kirkpatrick, P., & Loveday, H. (2020). Impact of canine-assisted interventions on the health and well-being of older people residing in long-term care: a mixed methods systematic review protocol. <i>JBI evidence synthesis</i> , <i>18</i> (10), 2140–2147. https://doi.org/10.11124/JBISRIR-D-19-002 24	-the use of dog assisted interventions on well-being of LTC residents	-does not explicitly talk about transitioning LTC residents, but still might be useful to touch upon	Y	MM
Sullivan, G. J., Hain, D. J., Williams, C., & Newman, D. (2019). Story-Sharing Intervention to Improve Depression and Well-Being in Older Adults Transitioning to Long-Term Care. <i>Research in</i> <i>gerontological nursing</i> , <i>12</i> (2), 81–90. <u>https://www.proquest.com/docview/219424</u> 2721?pq-origsite=primo&parentSessionId= <u>1AvSKgW8M5113XvvKHy3OGpBUz6%2</u> <u>B%2F6%2Fww4zJUBYgJ84%3D</u>	-highlights transitioning to LTC facility -short story sharing to improve QoL		Y	MM
Hersch, G., Hutchinson, S., Davidson, H., Wilson, C., Maharaj, T., & Watson, K. B. (2012). Effect of an occupation-based cultural heritage intervention in long-term	-intervention to facilitate adaptation to	-understanding occupational based cultural	Y	SB

geriatric care: A two-group control study. <i>The American Journal of Occupational</i> <i>Therapy</i> , 66(2), 224–232. https://doi.org/10.5014/ajot.2012.002394	relocation into LTC facilities -measures QoL, activity engagement, and social participation.	heritage intervention		
Yuen, H. K., Huang, P., Burik, J. K., & Smith, T. G. (2008). Impact of participating in volunteer activities for residents living in long-term-care facilities. <i>The American</i> <i>Journal of Occupational Therapy</i> , <i>62</i> (1), 71–76. https://doi.org/10.5014/ajot.62.1.71	-effect of a volunteer activity on the perceived well-being of long-term-care (LTC) residents.	LTC resident volunteering for an activity can it be considered an intervention	Y	SB
Hersch, G., Chang, PF., & Pettit, A. (2018). Deriving an occupational profile from older adults' reflections. <i>The American</i> <i>Journal of Occupational Therapy</i> , 72(4_Supplement_1). https://doi.org/10.5014/ajot.2018.72s1-po20 23	-perspectives of older adults transitioning to LTC settings -deriving occupational profiles and applying client narratives to interventions		Y	SB
De Vriendt, P., Cornelis, E., Vanbosseghem, R., Desmet, V., & Van de Velde, D. (2018). Enabling meaningful activities and quality of life in long-term care facilities: The stepwise development of a participatory client-centred approach in Flanders. <i>British</i>	-meaningful activities promote QoL of LTC facilities -Flanders, Belgium		Y	SB

<i>Journal of Occupational Therapy</i> , 82(1), 15–26. https://doi.org/10.1177/0308022618775880				
Chippendale, T., & Bear-Lehman, J. (2012). Effect of life review writing on depressive symptoms in older adults: A randomized controlled trial. <i>The American Journal of</i> <i>Occupational Therapy</i> , 66(4), 438–446. https://doi.org/10.5014/ajot.2012.004291	-effects of engaging in the occupation based intervention of life review through writing	-senior residences range from independent living to dependence on others for basic self care in a nursing home	Y	SB
Wood, W., Fields, B., Rose, M., & McLure, M. (2017). Animal-assisted therapies and dementia: A systematic mapping review using the lived Environment Life Quality (LELQ) model. <i>The American Journal of</i> <i>Occupational Therapy</i> , <i>71</i> (5). https://doi.org/10.5014/ajot.2017.027219	-animal-assisted therapies in nursing homes, assisted living facilities and LTC -dementia clients at risk or poor QoL	-specifically focuses on dementia only -this intervention can be helpful in improving QoL	Y	SB
Bickmore, T., Viti, N., & Hunt, A. (2019). Therapeutic biking and the effects on depression in long-term-care residents: A pilot study. <i>The American Journal of</i> <i>Occupational Therapy</i> , <i>73</i> (4_Supplement_1). https://doi.org/10.5014/ajot.2019.73s1-po40 32	-older adults in SNF participate in therapeutic biking program outside in a social context		Y	SB

Chang, PF., Birch-Evans, A., Davidson, H., Hersch, G., & Tsai, KL. (2017). Testing an occupation-based cultural group intervention for residents in long-term care settings. <i>The American Journal of</i> <i>Occupational Therapy</i> , <i>71</i> (4_Supplement_1). https://doi.org/10.5014/ajot.2017.71s1-po31 61	-practitioners working in LTC can incorporate occupation based cultural group intervention -client recent relocation	Υ	SB
Robichaud, L., Durand, P. J., Bédard, R., & Ouellet, JP. (2006). Quality of life indicators in long term care: Opinions of elderly residents and their families. <i>Canadian Journal of Occupational Therapy</i> , 73(4), 245–251. https://doi.org/10.2182/cjot.06.003	-opinions of LTC residents and families -developing valid outcome measures of QoL -qualitative study and semi-structured interviews	Y	SB

Appendix B

Search Tracking Table

Initials	Search Terms or Strategies (note Limits, MeSH, etc) <i>MeSH = medical Subject Headlines?</i>	Date Searched	Resource Used (database, search engine)	# Hits	# Excluded	# Kept
LV	quality of life	06/15/2022	OTSeeker	21	16	4
LV	quality of life AND long term care	06/15/2022	OTSeeker	0		
LV	long term care facility and quality of life	06/15/2022	OTSeeker	2	1	1
LV	quality of life and aging adults	06/15/2022	OTSeeker	9	6	3
LV	residential care AND quality of life AND [age group] Gerontology	06/15/2022	OTSeeker	13	10	3
KS	occupational therapy for transitioning long term care	6/25/22	PEDro, simple search	0	0	
KS	occupational therapy interventions for quality of life in transitioning older adults	6/25/22	PEDro, simple search	0	0	
MM	quality of life in older adults for occupational therapy	6/25/2022	PyschINFO	3	1	2
MM	quality of life for transitioning older adults	6/25/2022	PyschINFO	0	0	0
MM	improving quality of life in long term care	6/25/2022	PyschINFO	22	17	5
MM	quality of life AND long term care	6/25/2022	PyschINFO	0		
SB	quality of life) AND (older adults OR geriatric) AND (long term care or nursing facility)	6/27/2022	American Journal of Occupational Therapy (AJOT)	142	138	4
SB	(quality of life)AND (long-term care) and (intervention) AND (older adults or geriatrics) AND (transition)	6/29/2022	AJOT	77	75	2
MM	Geriatric long term care daily life interventions occupational therapy	7/8/2022	PubMed	14	11	3
MM	Improving quality of life in older adults transitioning to LTC	7/8/2022	PubMed	8	5	3
MM	quality of life transitioning to LTC	7/8/2022	PubMed	0		
MM	occupational therapy interventions to improve quality of life in older adults	7/8/2022	PubMed	1	1	0

SB	(quality of life) AND (older adults OR geriatric) AND (long-term care or nursing facility) AND (transition)	7/13/2022	AJOT	49	45	4
LV	quality of life, "transitions into long term care", 2000-2022	0717//2022	Google Scholar	79	70	9
SB	(quality of life)AND (long-term care) and (intervention) AND (older adults or geriatrics) AND (transition)	7/23/2022	Canadian Journal of Occupational Therapy (CJOT) British Journal of Occupational Therapy (BJOT)	29	26	3
LV	quality of life when transitioning to LTC	07/24/2022	Google Scholar	12, 600 *increa se search terms	n/a	n/a
LV	quality of life interventions, OR transitioning, OR long OR term OR care	07/24/2022	Google Scholar	15	10	5
KS	occupational therapy intervention or occupational therapy or occupational therapy treatment AND quality of life or well being or well-being or health-related quality of life AND long-term care or nursing home or residential care or assisted living AND relocation or transition or move	7/27/22	CINAHL	8	4	4
KS	Hand Searched Article	9/22/22	"Altruistic Activities of Older Adults Living in Long Term Care Facilities: A Literature Review" from <i>Physical &</i>	22	20	2

			Occupational Therapy In Geriatrics			
KS	Hand Searched Article	9/22/22	"Exploring Spirituality of Elders Relocating into Long-Term Care Facilities. <i>The</i> <i>Open Journal of</i> <i>Occupational</i> <i>Therapy</i> , 10(2), 1-11. https://doi.org/10 .15453/2168-640 8.1959	32	30	2

Appendix C

Knowledge Translation Product

Interventions that Address Quality of Life for those Transitioning to Long Term Care



Sharan Bhander, OTS Michaela Mikulis, OTS Kiana Serrao, OTS Laice Valera, OTS

University of Puget Sound School of Occupational Therapy

Table of Contents

01 Healthy Transitions to Long Term Care

02 Culture and Art

03 Altruistic Activities

04 Music

05 Spirituality

06 Exercise Based Interventions - Tai Chi

- 07 Exercise Based Interventions Biking
- **08** Animal Assisted Therapies

09 References

Healthy Transitions to Long Term Care

Major life transitions can negatively impact the emotional wellbeing of older adults and unfortunately, these transitions cannot always be avoided. Interventions that address individuals mental health, independence and role disruptions are critically important to create a positive transitioning experience. Different intervention Ideas Include: Counseling

Cognitive Narrative Psychotherapy

Integrative Reminisce therapy Community Based Interventions

re Your Life" Writing Workshops



among individuals transitioning to long term care • Group Treatment Sessions provide the opportunity for older adults engage In social participation which helps to avoid

Helps to improve depressive symptoms



- There may be gender differences in transitional experiences between men and womer
 - Mortality rates are higher for men after relocating to long-term care Men struggle more than women with low mood and a lack of purpose after major life
- transitio
- · It is important for caregivers to be educated and trained on how to support older adults
- It is important for categories to be educated and trained on how to support order adults during their major life transitions. (wijne et al. 2018)
 Choice is very important for individuals transitioning to long term care
 Most individuals who reported positive post-relocation adjustments had the ability to facilitate optimal person-environment fit during the relocation process
 Those who felt restriction in their choices, or felt pushed into relocation, had a harder
- time adjusting

 Maintaining familiar routines and occupations or engagement in new occupations helps to facilitate adjustment and minimize anxiety.
- Staff, caregiver and relative education on each resident Is Important for making them feel heard and valued









BENEFITS

ting behavio

- - ell-being and mental hea 2020, Hersch et al. 2020, and Suliva

t residents had minimal e severe forms of depre



LTC facilit

- Helps to facilitate self-exploratio

- current situation Promotes articulation a thoughts and feelings Non-verbal and verbal a (Durocher et a.2 Helps residents develop identity and maintain co continuity of lifestyle.

Promoting a sense of connectedness with their past, other residents activity itself by creating/providing a product intended to evoke positive thoughts and emotions from the recipient.

- Activities serve to help maintain QoL and increase life satisfaction with continuity of familiar activities/tasks.
- · Encourages resident autonomy when choosing activities to participate in
- Increased social interaction, communication, and expression of feelings (Cipriani, 2007, Cipriani et al, 2010) Intergenerational help from college students
- boosted morale, cognitive function, and
- One-on-one mentoring specifically for individuals with English as a second language increases communication skills and confidence in social settings (Yuer, 2002)



3

Baking for Others **Greeting Cards Flower Arrangements** Gift or Holiday Baskets

Group or One-on-One Mentoring

- concept
- Benefits may be from observing objects of altruistic actions and/or participating in the activity (Cipriani, 2007, and Cip
- Not all residents have the need to be altruistic
- Mentoring intent was to foster the autonomy of residents not to evaluate how well residents were mentored or how much the story

- Limited research on the importance of altruism impacting gender, social class, and cultural. • Limited generalizability because majority of participants female.
- Variables other than mentoring may have influenced outcomes due to no random assignment
 (Yuen, 2002)

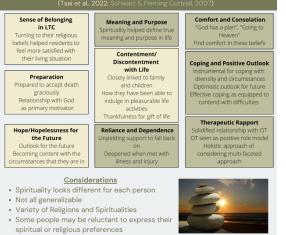
5



Spirituality has been seen to become more important as people age, thus engaging in spirituality practices are important for older adults. Going to a physical place of worship may be difficult when in a LTC, thus it is important for us to provide space and opportunities for residents to engage in their spiritual practices.

Spiritual Counseling Weekly Faith-Based Groups Psychotherapy Groups Mindfulness Meditation Prayer Groups







Music

Music Types/Genres: Musicals, Jazz, Rhythm and Blues, Religious, Classical, Opera, Country, Rock

Benefits

Positive Feelings Values and Connections to Music More opportunities to music occupations

Considerations LTC had more sophisticated music taste

People had individualized tastes in music. Hearing impairments limits participation (Burack, Jefferson, & Libow, 2008)



Tai Chi • To align and balance the body, mind, and spirt, rigong uses slow Tai chi movements and deep, diaphragmatic breathing. The breathing of Tai chi is timed with the open and closed arm movements. In Qigong, deep breathing pulls air down into the body's primary energy center, relieving strain on the lungs and expanding lung capacity. • Combination of Tai chi and Qigong (TCQ) program consisting of two 600-min sessions each week for 3 months (Chan et al, 2010).





Small sample size and short duration of study
No differences were detected in perceived social support (Chan et No differe al., 2010).



- An use practiced anywhe indoors or outdoors.
 No specific equipment required
 Clients with COPD can independently engage in TCQ or in a group setting
 Affordable and advantageous exercise program to enhance their health (Chan et al, 2010).

Helps residents discover feelings of self-gratification and an improved self-



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Appendix D

Knowledge Translation Outcomes Questionnaire

Netbeook Feedback In brown or worker work work work work work work work wor	We any of these interventions already implemented in your current practice? We any of these interventions already implemented in your current practice? We any of these interventions already implemented in your current practice? We any of these interventions already implemented in your current practice? We any of these interventions already implemented in your current practice? With interventions and you not used before or are NEW to you?	QoL Interventions for Transitioning to LTC	Was the notebook easy to navigate?
for viscos bathics provides when working with isder adults fassibilities to the set of the surfaces to make the notebook more clear or better organized? Image was not deter or consistes Image was not deter not understand the intervention Image was not deter not understand the intervention Image was not deter or consistes Image was not deter not understand the intervention Image was not deter not understand the i	ior varies bathere provider when working with adder adder fraktioning to long term is rearrange pugatesound dial Shift is account iiii iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Notebook Feedback	Yes, I could easily find what I was looking for
exer kerrangiorysteadured with Switch account Cordentials Your answere How clear was the information rowided will be helpful in choosing an intervention for pur client? Our pur clear or notice Inspage was not clear or concise Inspace was near denspin formation to found in cited articles Inspace was near denspin formation to found in cited articles Inspace was near denspin formation to make a beter choice Were any of these interventions already implemented in your current practice? Vise No Inspace Inspace Wich interventions have you not used before or an NEW to you? Visu answer Wich interventions have you not used before or an NEW to you? Visu answer Wich interventions are you interested in implementing? Wich interventions are you interested in implementing?	are: In the finding information took too long lester: No. finding information took too long Condentials Voir streer Your streer Do you think the information for your clear or concise Language was not clear or concise Do you think the information provided will be helpful in choosing an intervention for your clear? Language was not clear or concise Do you think the information match took too being Language was not clear or concise No. finding information for found in clear ancesse Language was not clear or concise No. find in printmation for found in clear ancesse Language was eavy of these interventions already implemented in your current practice? No. find in printmation practices evidence based? Your answer No. finders information practices evidence based? Not interventions already implemented in your current practice? No. Your answer No. Which interventions already implemented in your current practice? No. Your answer No. Mulch interventions already implemented in your current practice? Yes Your answer No. Which interventions already implemented in your current practice? No. Your answer No. Mulch interventions already implemented in your current practice? No. Your answer No. Which interventions are you interested in implementng? Yes		Yes, but it was not as efficient as I would like it to be
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