

Supplemental Material

Appendix A. Peer-reviewed Literature Search Strategy

Table A.1

Database	Keywords (search string)	Results
MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, OVID MEDLINE(R) Daily and OVID MEDLINE(R) 1946 to present	{SH (exp Aging/) OR aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology} AND {SH (exp Narration/) OR SH (Biography/) OR story* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc* or digital story* or digital stories or digital narrative*} AND {SH (exp Internet/) OR SH (exp Technology/) OR digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	444
OVID Embase (OVID 1974 to present)	{SH (exp Aging/) OR aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology} AND {SH (exp verbal communication/) OR SH (exp life history/) OR digital story* or digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {SH (exp Internet/) OR SH (exp Technology/) OR SH (exp mobile application/) OR SH (exp multimedia/) OR SH (exp hypermedia/) OR digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	1320
PsycINFO (1806 to present)	{SH (exp Aging/) OR aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology} AND {SH (exp narratives/) OR SH (Biography) OR digital story* or digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {SH (exp Internet/) OR SH (exp Technology/) OR SH (exp multimedia/) OR SH (exp hypermedia/) OR digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	462
CINAHL Plus with Full Text	{MH ("Aging+") OR MH ("Aged+") OR MH ("Aged, 80 and Over") OR aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology} OR {MH ("Narratives") OR MH ("Biographies+") OR MH ("Life Histories") OR MH ("Storytelling+") OR digital story* or digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {MH (exp Internet/) OR MH (exp Technology/) OR MH (exp mobile application/) OR MH (exp multimedia/) OR MH (exp hypermedia/) OR digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	443
Abstracts in Social Gerontology	{aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology or aged} AND {digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	586
ERIC via ESCOhost	{aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology or aged} AND {digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	559
Web of Science Core Collection	{aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology or aged} AND {digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*}	228

	AND {digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	
Scopus	{aging or elder* or older adult* or older person* or seniors or senior citizen* or geriatric* or gerontology or aged} AND {digital stories or digital narrative* or stories or narrative* or autobiograph* or life stor* or life histor* or reminiscenc*} AND {digital or media or mobile or "mobile application*" or online or internet or act or technology* or multimedia or hypermedia or "information technology" or "communication technology"}	506

Appendix B. Additional Tables

Table. B.1. Variables operationalization

Dimension	Variables name	Definition	Operationalization
Bibliometric indicators of the publication	Type of publication	Whether the study was published in a peer review journal, conference or thesis	1=Journal 2=Conference proceedings
	SNIP/SCOPUS	Source Normalized Impact per Paper (SNIP) is a metric that intrinsically accounts for field-specific differences in citation practices.	A number between 0, ∞
	Q	Refer to journal ranking quartiles within a subdiscipline using the SJR citation index	1= Q1 2= Q2 3= Q3 4= Q4
	Year of publication	Year in which the study was published	A number between 1995-2019
	Country (ISO Code)	Countries of all authors (affiliation) of the paper	AUS, CAN, CHN, COL, DNK, ESP, FRA, GBR, GER, GRC, IRL, ITA, JOR, KOR, MLT, NLD, NZL, POL, PRT, SWE, TWN, USA
Population or participants (older adults)	Sample Clients (n)	Number of clients involved in the study	A number between 0, n
	Cohorts	Only report if multiple Cohorts	
	Age, clients	Mean age and standard deviation of the clients participating in the study	Mean \pm Standard deviation
	Sex- Clients	Sex of the clients participating in the study	1= Female = nn (%) 2= Male = mm (%) 3= Other = zz (%) NR (Not Reported) N/A (Not applicable)
	Medical condition, clients	The medical condition the client has on the moment the study was conducted	1= Dementia (DEM) 2= Mild Cognitive Impairment (MCI) 3= Alzheimer's (AD) 4= Other NR (Not Reported) N/A (Not applicable)
	Dementia severity	The severity of the dementia or cognitive impairment	1=Early stage, 2=Midstate, 3=Advanced stage NR (Not Reported) N/A (Not applicable)
Other participants Involved in the process	Video editing	Who did the video editing process? (Researchers, family, caregivers, other)"	1=Researchers 2=Participants (Edited their own) 3=Family (Specify) 4=Students 5=Professionals (Facilitators, Media professionals)

			6= Other (Specify) NR (Not Reported) N/A (Not applicable)
	Training	Was previous training in the editing process required? Y/N	1= Yes 2= No NR (Not Reported) N/A (Not applicable)
	Training	Who trained the Editor?	1= Researchers 2= Facilitators 3= 3rd Party Company 4= Other NR (Not Reported) N/A (Not applicable)
	Recipients	Who were the recipients/observers of the stories	1= General public 2= Therapists 3= Family (spouse, children, parents) friends 4= Formal carers 5= University students 6= Community volunteers 7= Other Participants Private NR (Not Reported) N/A (Not applicable)
	Sharing	Methods for sharing stories/"Transmission method	1= Online (Social media, Blog, Archive, YouTube, Etc.) 2= Public Viewing 3= Private (Just Participant &/or selected individuals) 4= Conferences 5= Interactive Display 6= Ambient Display 7= Other NR (Not Reported) N/A (Not applicable)
The stories	The creation	How did they create the story /how the process was	1=One-one 2=Workshops 3= Participatory design method 4= Technology facilitation 5= Community programs courses 6= other (describe)" NR (Not Reported) N/A (Not applicable)
	Settings	Setting where the digital storytelling is done	1=Participants Home 2=Community Centres 3= Public Spaces (Park, Coffee shop)

			4= LTC 5= Other (Specify) NR (Not Reported) N/A (Not applicable)
	Creation time	How long it takes to create the stories (WEEKS)	A number between 0, ∞
	Evaluation time	How long it takes to assess the impact of the stories (Period following Story Creation), (WEEKS)	A number between 0, ∞
	Live events	Life events recalled or logged	1=Past events 2=Current events 3=Future 4= Other (Specify) NR (Not Reported) N/A (Not applicable)
	Media content		1=Person, 2=General, 3=Era 4= Other (Specify) NR (Not Reported) N/A (Not applicable)
	Media	Type of media in which the story is delivered	1=Photos, 2= Videos, 3=Music, 4=Sound, 5=Text, 6= Voice 7=Recordings, 8=Images, 9=Blogs, 10=Other NR (Not Reported) N/A (Not applicable)
The technology	Aim of the technology		1=Content Capture (CC) 2=Story Editing (SE)- Includes story creation 3=Story Sharing (SS) 4=Story Viewing (SV)- Ex. display, DVD player, etc. 5=Other (Specify) NR (Not Reported) N/A (Not applicable)
	TRL	Level of technology readiness	A number between 1-9
	Proprietary	Use of Proprietary Technology/ Technology Application?	1= Yes 2= No NR (Not Reported) N/A (Not applicable)
Study Design	Study type	Not applicable	1= Clinical-oriented studies

			2= Usability (Focused on determining how usable a product/intervention is) 3=Design (Developing a technology) 4=Descriptive (e.g., includes products, application) NR (Not Reported) N/A (Not applicable)
	Design type (Mixed study)	Strategy of inquiry	1= Yes 2= No
	Design type (specific)	Quantitative. According to McMaster assessment of study appraisal.	1= RCT, 2=Cohort Design, 3= Single case design, 4=Pre-test Post-Test, 5=Case control, 6=Cross Sectional Design, 7=Case study design, 8=Observational. 9=Others NR (Not Reported) N/A (Not applicable)
	Design type (specific)	Qualitative. According to McMaster assessment of study appraisal.	1=Ethnography, 2=Phenomenology, 3=Grounded theory, 4=Participatory action research, 5=Others. NR (Not Reported) N/A (Not applicable)
Study Overview	Study Overview	Study Overview	One sentence summarizing the objective of the study NR (Not Reported) N/A (Not applicable)
Outcome variables	Outcome variables	Name Outcome variables	Outcome variables NR (Not Reported) N/A (Not applicable)

Table B.2. Levels of evidence. Modified Sackett criteria (Teasell, et al., 2020)

Level of evidence	Description
Level 1a	More than one randomized controlled trial with PEDro scores ≥ 6 . Includes within subject's comparison with randomized conditions and cross-over designs
Level 1b	One randomized controlled trial with a PEDro score ≥ 6 . Includes within subject's comparison with randomized conditions and cross-over designs.
Level 2	Randomized controlled trial, PEDro score < 6 ; Non-RCTS and Cohort studies (using at least 2 similar groups with one exposed to a particular condition).
Level 3	Case-Control: A retrospective study comparing conditions, including historical controls.
Level 4	Case Series, retrospective chart review; Pre-Post, a prospective trial with a baseline measure, intervention, and a post-test using a single group of subjects; or Post-Study, a prospective post-test with two or more groups, intervention, then post-test using a single group of subjects
Level 5	Observational, studies using cross-sectional analysis to interpret relations; Clinical Consensus, expert opinion without explicit critical appraisal, or based on physiology, biomechanics or "first principles"; or Case Report, pre-post or case studies (n=1).
Conflicting	In the absence of evidence, agreement by a group of experts on the appropriate treatment course. Consensus opinion is regarded as the lowest form of evidence. As such, it is arguably not considered evidence at all. Disagreement between the findings of at least 2 RCTs or where RCTs are not available. Where there are more than 4 RCTs and the results of only one was conflicting, the conclusion was based on the results of the majority of the studies, unless the study with conflicting results was of higher quality.