# Long-Term Care Facilities in Brazil

Subjects: Health Care Sciences & Services Contributor: Patrick Wachholz

This scoping review aimed to explore the characteristics, strengths, and gaps in research conducted in Brazilian long-term care facilities (LTCFs) for older adults. Electronic searches investigating the residents ( $\geq 60$  years old), their families, and the LTCF workforce in Brazil were conducted in Medline, EMBASE, LILACS, and Google Scholar, within the timescale of 1999 to 2018, limited to English, Portuguese, or Spanish. The reference lists were hand searched for additional papers. The Mixed Methods Appraisal Tool (MMAT) was used for critical appraisal of evidence. Data were reported descriptively considering the study design, using content analysis: 327 studies were included (n = 159 quantitative non-randomized, n = 82 quantitative descriptive, n = 67 qualitative, n = 11 mixed methods, n = 6 randomized controlled trials, and n = 2 translation of assessment tools). Regardless of the study design, most were conducted in a single LTCF (45.8%), in urban locations (84.3%), and in non-profit settings (38.7%). The randomized trials and descriptive studies presented the lowest methodological quality based on the MMAT. This is the first review to provide an overview of research on LTCFs for older people in Brazil. It illustrates an excess of small-scale, predominantly gualitative papers, many of which are reported in ways that do not allow the quality of the work to be assured.

older adults care homes nursing homes

long-term care

older people

scoping review

### 1. Introduction

The fast growth of the older population in low- and middle-income countries <sup>[1]</sup> has allowed little time for social and health care systems to adapt. Long-term care facilities (LTCFs) are an integral part of how such systems care for older people with frailty, particularly as health conditions become more complex over time and they are no longer able to be cared for at home.

The sustainability of the LTCF sector depends upon policy and economic decisions <sup>[2]</sup>. In Brazil, where aggregate levels of wealth are lower and welfare systems are underdeveloped, the financial burden of aging is predominantly borne by families or older individuals themselves, leading to precarity of funding and lack of investment to enable development of the sector [3][4][5][6].

In 2010, there were around 3500 registered LTCFs in Brazil, and around 100,000 older people (aged 60 years and older) were living in such facilities, making the sector much smaller than in many middle- and higher-income countries [6][7]. However, estimations of the size of the sector are impaired by a lack of systems for collecting and

sharing national data on LTCFs <sup>[8]</sup>. This lack of information is, in turn, a hindrance to the development of the Brazilian LTCF sector.

Research on LTCFs is an emerging field in low- and middle-income countries <sup>[9][10]</sup>. In Brazil, it has not been supported or funded in a strategic way <sup>[Z][11]</sup>. This lack of co-ordination means that we are, as yet, unclear about the extent, quality, and impact of research in the sector or how it impacts on older adults' care <sup>[Z][11]</sup>. Taking stock of research carried out to date in Brazilian LTCFs will provide an understanding of the current state of the art of research in this area and highlight where work is needed.

This scoping review (SR) set out to provide an overview of the nature and extent of the scientific research conducted in Brazilian LTCFs in order to provide a summary for care providers and policymakers to inform the future endeavors in the field. The purpose of this is to give researchers, policymakers, and those commissioning research in Brazil a "big picture" overview of long-term care research conducted in Brazil over the past two decades. This overview can be used to design a coordinated plan of action for future research as well as linking to international expertise where appropriate.

We asked the following question: "What are the general features of, and gaps in, empirical research conducted across Brazilian LTCFs for those aged over 60 years?"

Our objectives were to:

- Describe the type and quality of empirical research conducted in Brazilian LTCFs for those aged over 60 years;
- Identify the topic areas of published research;
- Map the regions in Brazil where this research was conducted;
- Identify current knowledge gaps.

#### 2. Study Inclusion

A total of 512 publications were retrieved. A further 12 articles were identified during the secondary screening of the references. After deleting duplicates, 438 studies were assessed for eligibility. Ninety-nine papers were excluded, yielding 327 studies that were included. <u>Figure 1</u> shows a PRISMA diagram summarizing the study selection process.

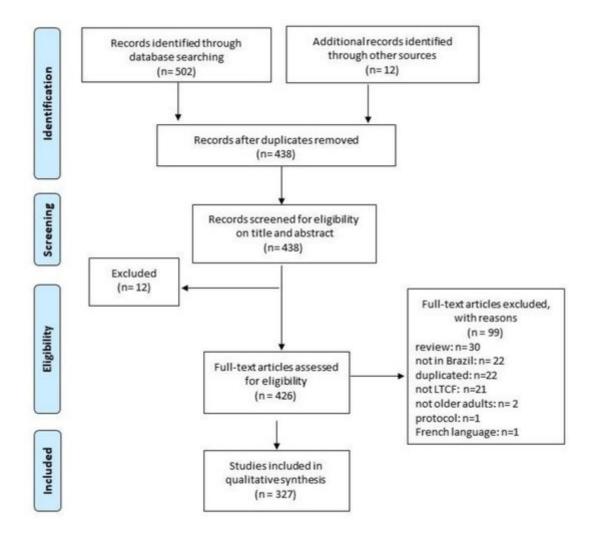


Figure 1. Flow chart with scoping review selection process.

#### 3. Features of Included Studies

<u>Table 1</u> presents an overview of the included studies. Two studies are not included in the tables as they did not fit any of the designs listed on the MMAT (translation/cultural adaptation of assessment tools). Quantitative nonrandomized research (QNR) (for example, non-randomized controlled trials, cohort and case–control studies, and cross-sectional analytic studies) comprised almost half of the included papers (n = 159; 48.9%), followed by quantitative descriptive (QD) (n = 82; 25.2%), qualitative (n = 67; 20.6%), mixed methods (n = 11; 3.4%), and randomized controlled trials (RCT) (n = 6; 1.9%).

**Table 1.** Characteristics of included studies regarding primary research conducted in Brazilian long-term care facilities (LTCFs) published in scientific journals by methodology.

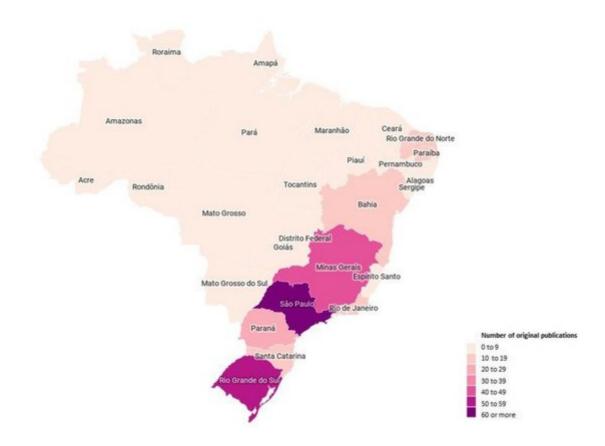
	Qualitative (n = 67)	Descriptive (n = 82)	Non-Randomized (n = 159)	RCT ( <i>n</i> = 6)	Mixed Methods ( <i>n</i> = 11)
Publication Date					

	Qualitative (n = 67)	Descriptive (n = 82)	Non-Randomized (n = 159)	RCT ( <i>n</i> = 6)	Mixed Methods ( <i>n</i> = 11)
1999–2009	11 (16.4%)	19 (23.1%)	24 (15.1%)	1 (16.6%)	5 (45.5%)
2010–2015	42 (62.6%)	45 (54.9%)	83 (52.2%)	1 (16.6%)	5 (45.5%)
≥2016	14 (20.9%)	18 (21.9%)	52 (32.7%)	4 (66.8%)	1 (9.0%)
Language					
English	6 (8.9%)	15 (18.3%)	47 (29.5%)	1 (16.6%)	2 (18.2%)
Portuguese	46 (68.7%)	51 (62.2%)	73 (45.9%)	3 (50.0%)	7 (63.6%)
At least Portuguese/English	15 (22.4%)	16 (19.5%)	39 (24.6%)	2 (33.4%)	2 (18.2%)
Geographic area *					
North	1 (1.5%)	0	4 (2.5%)	0	0
Northeast	13 (19.4%)	21 (25.6%)	32 (20.1%)	1 (16.6%)	0
South	29 (43.2%)	17 (20.7%)	35 (22.0%)	3 (50.0%)	7 (63.6%)
Southeast	14 (20.9%)	34 (41.5%)	65 (40.9%)	0	4 (36.4%)
Midwest	4 (5.9%)	6 (7.3%)	16 (10.0%)	1 (16.6%)	0
≥2 geographic area	3 (4.5%)	2 (2.4%)	3 (1.9%)	0	0
NR	3 (4.5%)	2 (2.4%)	4 (2.5%)	1 (16.6%)	0
1st Author Institution					
Public University	44 (65.7%)	59 (71.9%)	106 (66.7%)	4 (66.8%)	6 (54.5%)
Private University	19 (28.3%)	17 (20.7%)	33 (20.7%)	2 (33.2%)	5 (45.5%)

	Qualitative (n = 67)	Descriptive (n = 82)	Non-Randomized (n = 159)	RCT ( <i>n</i> = 6)	Mixed Methods ( <i>n</i> = 11)
Health Service	2 (3.0%)	2 (2.4%)	6 (3.8%)	0	0
Governmental Agency	0	1 (1.2%)	1 (0.6%)	0	0
Others	2 (3.0%)	2 (2.4%)	1 (0.6%)	0	0
NR	0	1 (1.2%)	2 (1.2%)	0	0
Ethical approval $^{\dagger}$					
Yes	59 (88.0%)	64 (78.0%)	132 (83.0%)	5 (83.4%)	8 (72.7%)
NR	8 (12.0%)	18 (22.0%)	27 (17.0%)	1 (16.6%)	3 (27.3%)

RCT: randomized controlled trial; NR: not reported; \* the Federal Constitution of 1988 divides Brazil into five regions: North, Northeast, Midwest, Southeast, and South; <sup>†</sup> ethical approval was clearly informed by the authors.

Most papers (n = 265; 81.5%) were published in the last ten years. The full text was available only in Portuguese in 180 publications (55.4%). Most articles had acceptable statements about ethical review; however, we could not locate any information on ethics procedures for 57 papers (17.5%). Figure 2 maps the Brazilian regions in which the studies were undertaken (according to first author institutional affiliation), illustrating the concentration of scientific research in the South and Southeast regions of Brazil.



**Figure 2.** Characterization of the number of original publications included according to the Brazilian state of the institutional affiliation of the first author.

#### 4. Characteristics of Included LTCFs

Regardless of the study design, most were conducted in a single LTCF (n = 149; 45.8%), in urban locations (n = 274; 84.3%), and in non-profit settings (n = 126; 38.7%) (<u>Table 2</u>). A high proportion of studies failed to sufficiently report the type of setting and its location (37.0% and 38.5%, respectively). The main sample composition involved LTCF residents (n = 241; 74.1%) with an average of 13 older adults (2 to 59) in qualitative studies and 178 older adults (1 to 2184) in descriptive quantitative papers.

**Table 2.** Characteristics of the long-term care facilities (LTCFs) studied in the included papers from primary research conducted in Brazilian LTCFs published in scientific journals by the type of methodology.

	Qualitative (n = 67)	Descriptive ( <i>n</i> = 82)	Non-Randomized ( <i>n</i> = 159)	RCT ( <i>n</i> = 6)	Mixed Methods (n = 11)
Type of setting	(1 – 01)	52)	(11 – 133)	3)	(,, – 11)
Profit	2 (3.0%)	0	1 (0.6%)	0	0

	Qualitative (n = 67)	Descriptive ( <i>n</i> = 82)	Non-Randomized (n = 159)	RCT ( <i>n</i> = 6)	Mixed Methods (n = 11)
Non-profit	32 (47.7%)	31 (37.8%)	59 (37.1%)	3 (50.0%)	1 (9.0%)
Both	12 (17.9%)	17 (20.7%)	36 (22.6%)	0	5 (45.5%)
NR	21 (31.4%)	34 (41.5%)	63 (39.6%)	3 (50.0%)	5 (45.5%)
Setting Location					
Rural	1 (1.5%)	0	1 (0.6%)	0	0
Urban	43 (64.2%)	42 (51.2%)	94 (59.1%)	2 (33.2%)	8 (72.7%)
Both	0	5 (6.1%)	8 (5.0%)	0	0
NR	23 (34.3%)	35 (42.7%)	56 (35.3%)	4 (66.8%)	3 (27.2%)
Number of LTCF					
1	46 (68.7%)	35 (42.1%)	60 (37.7%)	3 (50.0%)	5 (45.5%)
2–5	9 (13.4%)	19 (22.9%)	37 (23.2%)	3 (50.0%)	1 (9.0%)
6–10	8 (11.9%)	12 (15.6%)	25 (15.7%)	0	0
≥11	3 (4.5%)	08 (9.7%)	22 (13.8%)	0	4 (36.5%)
NR/NA	1 (1.5%)	08 (9.7%)	15 (9.4%)	0	1 (9.0%)
(Min–Max, mean, median)	(0-52, 3.7, 1)	(1–156, 10.1, 2)	(1–125,6.4, 2)	(1–5, 2.0, 1.5)	(1–52, 14.4, 1)
Sample composition					
Older adults	33 (49.2%)	64 (78.0%)	133 (83.6%)	6 (100%)	5 (45.5%)
Total (Min–Max, mean, median)	Total = 428 (2–59, 12.9, 10)	Total = 11,358 (1–2184, 177.4, 76)	Total = 22.747 (4–3903, 171.0, 81.0)	Total = 164 (13–37, 27.3, 30)	Total = 204 (8–55, 40.8, 43)
Family	1 (1.5%)	0	0	0	0

	Qualitative (n = 67)	Descriptive ( <i>n</i> = 82)	Non-Randomized ( ( <i>n</i> = 159)	RCT ( <i>n</i> = 6)	Mixed Methods (n = 11)
Total (Min–Max, mean, median)	Total = 6				
Staff	19 (28.3%)	7 (8.5%)	7 (4.4%)	0	3 (27.2%)
Total (Min–Max, mean, median)	Total = 337 (7– 40, 17.7, 16)	Total = 411 (12– 181, 58.7, 38.5)	Total = 459 (22– 181, 65.5, 45)		Total = 281 (38– 181, 93.6, 62)
LTCF characteristics	3 (4.4%)	7 (8.5%)	2 (1.3%)	0	0
Total (Min–Max, mean, median)	Total = 59 (1– 52, 19.6, 6)	199 (4–156, 28.4, 7.5)	Total = 80 (29–51, 40.0, 40)		
Managers and stakeholders	3 (4.4%)	1 (1.2%)	0	0	
Total (Min–Max, mean, median)	Total = 18 (5– 7, 6.0, 6)	Total = 67			
Older adults × Non- institutionalized older adults	0	2 (2.4%)	15 (9.4%)	0	1 (9.0%)
Total (Min–Max, mean, median)		Total = 192 (15– 177, 96.0, 96) × Total = 273 (30– 243, 136.5, 136.5)	Total = 1180 (14– 393, 78.7, 42) × Total = 16,839 (14–598, 112.6, 76)		Total = 30 × Total = 30
Older adults × Staff	2 (3.0%)	1 (1.2%)	2 (1.3%)	0	2 (18.3%)
Total (Min–Max, mean, median)	Total = 13 (3– 10, 6.5, 6.5) × Total = 25 (9– 16, 12.5, 12.5)	Total = 62 × Total = 33	Total = 57 (11–46, 28.5,28.5) × Total = 40 (15–25, 20.0, 20)		Total = 314 (6– 308,157.0, 157) × Total = 50 (7– 43, 25.0, 25.0)
Older adults × Family	1 (1.5%)				
Total (Min–Max, mean, median)	Total = 3 × Total = 3				
Older adults × Managers	3 (4.4%)				
Total (Min–Max, mean, median)	Total = 27 (8– 11, 13.5, 8) ×				

## 5. Research Topic Areas

	Qualitative (n = 67)	Descriptive ( <i>n</i> = 1 82)	Non-Randomized ( <i>n</i> = 159)	RCT ( <i>n</i> = 6)	Mixed Methods (n = 11)	
	Total = 17 (3– 7, 8.5, 7)					the most n ( <i>n</i> = 26;
Family × Staff	1 (1.5%)					and work
Total (Min–Max, mean, median)	Total = 13 × Total = 19					erm care
Managers × Staff	1 (1.5%)					
Total (Min–Max, mean, median)	Total = 20 × Total = 36					

Table 3 summarizes the methodological appraisal of the included articles using the MMAT. RCT and descriptive

studies had a higher proportion of MMAT classified as "no" or "cannot determine" than the other designs. NR: not reported; NA: not applicable; LTCFs: long-term care facilities. The numbers in bold represents the most Therefore, the quality of the evidence based on the MMAT was lower for these designs. Studies with a qualitative frequent values. design scored higher.

**Table 3.** Critical appraisal of included sources of evidence through the Mixed Methods Appraisal Tool (MMAT), n = 325.

Scree	ening		estio pes)	ns (fo	or All						Q	ualita	tive	(n = 0	67)					
res	e ther clear searcl stion:	h	colle a adc re	Do the ected o llow to lress t searc estion	lata ) :he h	qu ap appi an re	Is the ialitati oproad ropria swer t esearc uestion	ve ch te to the ch	Are the qualitative data collection methods adequate to address the research question?			fir ade deri	are the nding: equate ved fr e data	s ely rom	o su sub	Is the erpreta f resul ifficien stantia y data	tion ts itly ated	Is there coherence between qualitative data sources, collection, analysis, and interpretation?		
Y	Ν	С	Y	Ν	С	Υ	Ν	С	Y	Ν	С	Υ	Ν	С	Υ	Ν	С	Y	Ν	С
62	5	-	53	9	5	56	6	5	38	7	22	40	3	24	37	6	24	37	11	19
									Qua	ntitat	ive ra	ndomi	zed c	ontro	lled tr	ials (n	n = 6)			
						app	ls Iomiza ropria rforme	ately	com	he gro parab seline	le at	CO	e the mple utcom data?	te ie	Are outcome assessors blinded to the intervention provided?			Did the participants adhere to the assigned intervention?		
Y	Ν	С	Υ	Ν	С	Υ	Ν	С	Y	Ν	С	Υ	Ν	С	Υ	Ν	С	Y	Ν	С
6	-	-	5	-	1	1	1	4	4	-	2	3	2	1	2	3	1	2	1	3
										Quar	ntitativ	ve non	- rano	domiz	ed ( <i>n</i> :	= 159)	)			

Scree	ening		estio pes)	ns (fo	or All						Q	ualita	tive	(n = (	67)					
						par repre of t	Are the participants representative of the target population? Are measurements appropriate regarding both the outcome and intervention (or exposure)?			CO OL	e thei mplei itcom data?	te	cor acc in t	Are the nfound ounted he des analy	lers d for sign	During the study period, is the intervention administered (or exposure occurred) as intended?				
Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Υ	Ν	С
156	3	-	140	6	13	57	47	55	120	19	20	126	7	26	56	58	45	120	15	24
							Quantitative descriptive ( $n = 82$ )													
						sa s rel ado re	Is the amplir trateg evant dress esearc iestio	ng IY to the ch	Is the sample representative of the target population?			Are the Is the risk of measurements appropriate? bias low?			nse	Is the statistical analysis appropriate to answer the research question?				
Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Υ	Ν	С	Y	Ν	С	Υ	Ν	С	Y	Ν	С
78	3	1	64	11	7	37	21	24	32	31	19	61	9	12	29	12	41	58	8	16
											Mi	xed me	ethod	s (n =	: 11)					
						ac rati usin m de ado re	there dequa onale g a m nethoo esign dress esearc iestio	te for lixed ds to the ch	di comp th eff inte ans re	Are the different components of the study effectively integrated to answer the research question?		outp integ quali qua com ade	gration tative intitat ipone equate	Are divergences s of the and ation of inconsistencie tive and between titative quantitative onents and qualitative uately results preted? adequately addressed?			ncies n ive ative s ely	Do the different components of the study adhere to the quality criteria of each tradition of the methods involved?		
Y	Ν	С	Y	Ν	С	Υ	Ν	С	Υ	Ν	С	Y	Ν	С	Υ	Ν	С	Y	Ν	С
11	-	-	7	1	3	7	1	3	6	4	1	6	4	1	3	2	6	6	4	1
	Ca	tegor	y with I	nost d	of the s	studie	s with	YES												
	Ca	tegor	y with I	nost o	of the s	studie	s with	NO												

Category with most of the studies with CANNOT DETERMINE

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