

Design of a Performance Evaluation Instrument for the Instrumentals Activities of Daily Living: Hernández Neumann

> TO. MG Vivian Neumann Collyer TO. MG Karla Hernández Pérez Escuela de Terapia Ocupacional Universidad Santo Tomás CHILE









-

Why we made this research?

- The Lawton and Brody index is one of the most widely used IADL measurement instruments in Chile and Latin America.
- It has limitations, its old , does not consider the AOTA framework, its only for elder people, Nevertheless......the instrument has statistical validity.







1969 Lawton & Brody

Results, allowed to identify that although the instrument has statistical validity, for the occupational therapists does not contemplate the activities that at presente are considered as instrumental 2014, "Analysis of instrumental performance evaluation of Instrumental Activities of Daily Living (IADL) "Lawton and Brody" to determine the factors that influence the results of dependence/Independence of people"



2015, Research Objectives: The design and validation of a performance evaluation tool in the IADL, wich is adjusted to the needs and current characteristics of the people , considering the evolution in terminology according to AOTA

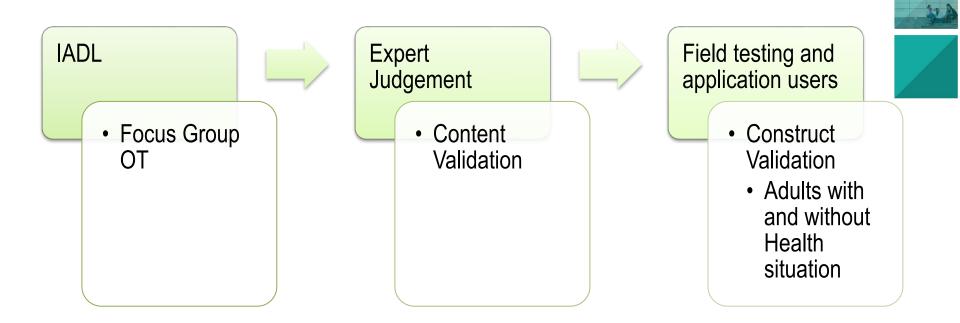


Methodology

The present study was included in a multivariate quantitative research-evaluative study.



Methodology







UST









Desing of the Instrument





An instrument was designed that evaluates the IADL stated in the Occupational Therapy (O.T.) Practice Framework of the American Association of O.T., considering previous performance of the people, reasons for why they are not performed and the level of importance assigned to each activity.

Instrument Design

UST •It includes monitoring and providing care to others. Care of others Raising and supervising children, to promote their natural development. •Use of technology to communicate like smartphones, **Communication management** computers, special communication systems. **Driving and community** •Know how to use buses, trains, taxis, etc., driving. Using fiscal resources, including alternate methods, Financial management planning and using finances





ST

1

Health management and maintenance	•Development, care and maintenance of healthy habits.
Home establishment and management	•Obtaining and maintaining personal and household possesions and enviroment.
Mail preparation and cleanup	•Panning, preparing and serving well balanced, nutritions meals and cleninig up.
Safety and emergency maintenance	•Knowledge and development of strategies to maintain a safe environment. Know how to act and have the necessary means in emergency situations.
Shopping	•Plan purchases as well as execute them

Level of Performance

2. Independent: Performs the activity without assistance of a third party even if it uses thecnical aids, orthoses or others.

1. Dependent with supervission/minimal help: Performs the activity but requires a third party to monitor, indicate or stimulate to carry out the activity. Provides minimal physical support.

-1 Dependent but collaborates/constant moderate help: Collaborates and/or participates in the activity executing certain operations of this, realices less than 75%.

-2 Dependent: Does not perform the activity, this is executed by a third party.

0 o N/A not apllicable: Can not be evaluated by the context and/or roles it is currently fulfilling, g deprived of liberty, hospitalized.

Reasons why it does not do it/dependence

- 1 Skills
- 2 Gender
- 3 Socieconomic level
- 4 Previous

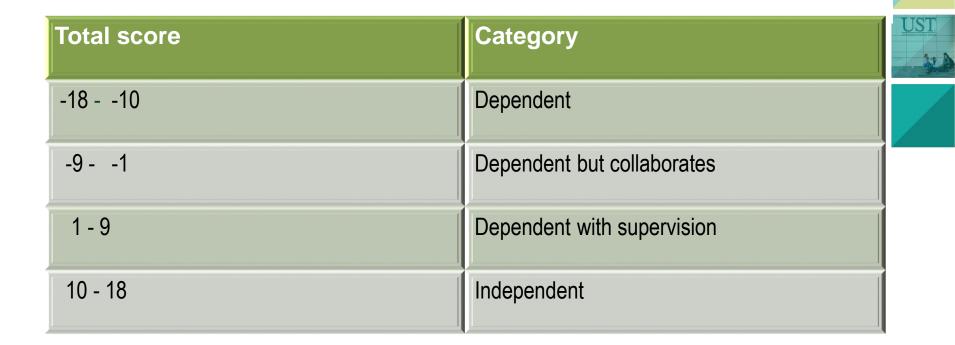
performance/because you are not interested

Importance Level: 4 Very Important 3 Important 2 Little important 1 Not important

			Deceme why it dece											
						Reasons why it does								
Activity	Level	of per	rform	formance: not do it/dependence			Importance							
														7
	-2	-1	1	2	N/A	1	2	3	4	1	2	3	4	F
1. Care of others														
2. Communication management														
3. Driving and community mobility														A
4. Financial management														
5. Health mnagement and maintenance														
6. Home establishment and management														-
7. Mail preparation and cleanup														
8. Safety and emergency maintenance														
9. Shopping														

Score







Design of a procedure manual for the application of the instrument.

- The manual incorporates guiding questions for each item and for each variable.
- For ex:

Care of others: (including care of pets and child rearing) Guiding questions: Who cares?, What activities do you do in care? Can you provide all the necessary care?









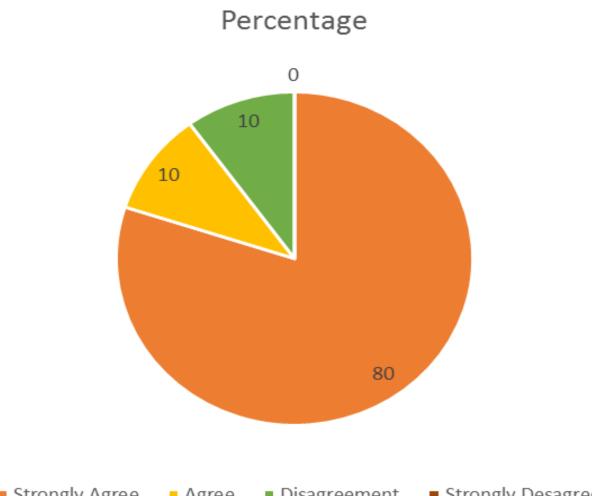




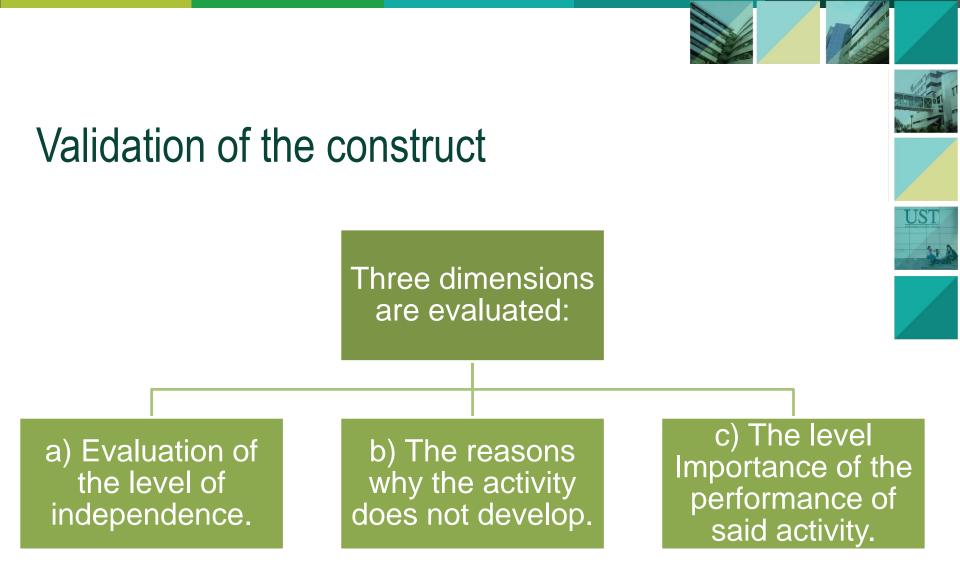


RESULTS

In Content Validation, the results obtained indicate that 80% of the experts agree strongly with the characteristics of the instrument.







Through a reliability analysis, a high level of this was obtained in all three dimensions of the instrument

	Cronbach's alpha	Cronbach's alpha	Cronbach's alpha
	if the element	if the element has	if the element has
	has been deleted.	been deleted.	been deleted.
	Level	Reasons why	Importance level.
	independence	itdoes not do it	
Question 1	0,902	0,781	0,817
Question 2	0,918	0,776	0,791
Question 3	0,901	0,785	0,793
Question 4	0,900	0,762	0,783
Question 5	0,902	0,770	0,805
Question 6	0,898	0,724	0,793
Question 7	0,893	0,721	0,801
Question 8	0,896	0,765	0,791
Question 9	0,892	0,785	0,800





Alpha values greater than 0.7

		Total score	Score	Total
		reasons why it	Independence	Importance
		does not do	Level	
Total score reasons why it	Correlation by Pearson	1	-,668**	-,492**
does not do it	Sig. (Bilateral)		,000	.000
	Ν			
		89	89	89
Score Independence Level	Correlation by Pearson	-,668**	1	,523**
	Sig. (Bilateral)			
	N			
		,000		,000
		89	89	89
Total Importance	Correlation by Pearson	-,492**	,523**	1
	Sig. (Bilateral)			
	N			
		,000	,000	
		89	89	89

There is a significant correlation between the dimensions.

Meaning:

- As the levels of independence increase, the importance of performance increases.
- The greater independence, lower vouchers in the indicators associated with the reasons why it does not do.
- When the level of importance increases, the values of why it does not decrease.







Multiple Linear Regression Model

I	Model	R	R squared	R squared	Standard	Change statistics						
I				adjusted	error of	Change of	Change of	df1	df2	Sig.		
I					estimation	square of R	F			Cambio en		
l										F		
l	1	,822ª	,676	,673	4,044	,676	181,759	1	87	,000		
I	2	,919 ^b	,844	,841	2,820	,168	92,913	1	86	,000,		
	3	1,000 ^c	1,000	1,000	,000	,156		1	85			

a. Predictors: (Constant), Score Independence Level

b. Predictors: (Constant), Score Level Independence, Total score reasons why it does not do it

c. Predictors: (Constant), Scoring Level Independence, Total score reasons why it does not do it,

Total Importance

d. Dependent variable: Total General

Can conclude that the greatest explanatory weight is due to the level of independence.

UST









CONCLUSIONS

Conclusions

The Performance Evaluation instrument in IADLs Hernández-Neumann values functionality as an indicator of health and dependence.



The activities considered ensure updating of the terms used.



The instrument obtained a positive result in the factor analysis, which denotes the validity of the instrument.







Implications for Occupational Therapy









UST

Gracias Dankie Thanks Mercy IN STREET Danke ありがとう 谢谢





UST



- vivianneumann@santotomas.cl
- kahernandez@santotomas.cl