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Supporting employee mental health during the COVID-19 pandemic: interventions to enhance Psychological Capital in Spain

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The **objective** of this study was to evaluate the central construct of PsyCap and each of its four dimensions which are, resilience, hope, self-efficacy and optimism and to implement interventions at the workplace that specifically target an improvement in PsyCap both on the individual and on the team level.

Introduction

Implementation to positive psychological interventions to develop the PsyCap of employees may be considered as a complementary strategy in mental health promotion and helps to achieve the goal of occupational health. Addressing the need for continuous learning, we extend the construct of psychological capital to the context of leader development.

The framework relies on the work of Luthans et all. (1), who identified four psychological constructs (hope, optimism, resilience, and self-efficacy) that also bundle into the higher-order construct Psychological Capital -PsyCap-, which meet the criteria of being positive, based on theory and research, and state-like open to development, change and management for performance improvement. PsyCap is a positive personal trait with high malleability and developmental capacity, his training allows enhancing employees' strengths and psychological resources.

The objective of this study was to evaluate the central construct of PsyCap and each of its four dimensions and to develop a training procedure for its improvement in employees after the impact of Covid-pandemic in June 2020.

Results

Mean scores of PsyCap-construct according to characteristics of participants are shown this table.

The PsyCap-construct and three dimensions - self-efficacy, resilience and optimism - were significantly associated with:

- (1) <u>Sex</u>, higher level in men.
- (2) Educational situation, lower level among people with university degree or higher.
- (3) <u>Position</u>, higher level among Directors and Managers.
- (4) <u>Date/Pandemic phase</u>, with a reduction in the level of PsyCap over time and a higher level at the beginning of the study, in the last quarter of 2020.
- (5) Economic activities: with the highest levels in the manufacturing industry.

However, **hope** was not significantly associated with the variables analysed (p>0.05).

Regarding the **age group** and **length**, the differences found are not significant, although they point to higher levels of PsyCap among staff with less seniority (<1 year) and among those over 60 years old.

Gender was significantly related to occupation (p= 0.004) which corresponds to the gender-based employment segregation.

Influence of personal characteristics on the level of PsyCap by gender

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		Ma	le	Female		
		F	Sig	F	Sig	
Age (years)	Optimism	.439	.780	1.477	.208	
	Resilience	1.297	.270	.885	.473	
	Норе	1.604	.172	.747	.560	
Age	(Self-)Efficacy	.626	.644	.219	.928	
	PsyCap	.327	.860	.920	.452	
	Optimism	5.794	.000**	2.047	.039*	
nic ies	Resilience	6.582	.000**	3.289	.001**	
Economic Activities	Норе	4.407	.000**	1.786	.077	
Ecc Ac	(Self-)Efficacy	4.441	.000**	2.429	.014*	
	PsyCap	7.211	.000**	2.534	.010*	
	Optimism	3.707	.012*	.602	.614	
Educational situation	Resilience	2.312	.075	.307	.820	
	Норе	3.819	.010*	1.159	.325	
	(Self-)Efficacy	4.106	.007**	.489	.690	
	PsyCap	4.775	.003**	.162	.922	
	Optimism	.835	.434	5.801	.003**	
u	Resilience	2.302	.101	10.135	.000**	
Position	Норе	.335	.715	3.503	.031*	
Рс	(Self-)Efficacy	1.660	.191	4.643	.010*	
	PsyCap	1.369	.255	7.805	.000**	
٩	Optimism	.865	.459	1.063	.364	
	Resilience	1.052	.369	.681	.564	
Length	Норе	.139	.937	1.217	.303	
Ler	(Self-)Efficacy	.247	.864	.351	.788	
	PsyCap	.482	.695	.808	.490	
Date / Pandemic phase	Optimism	1.818	.142	.994	.395	
	Resilience	3.147	.025*	4.971	.002**	
	Норе	.353	.787	1.588	.191	
Dudei	(Self-)Efficacy	2.063	.104	1.621	.183	
Par	PsyCap	2.125	.096	2.725	.044*	
	<0.05; **P<0.01 tions: PsyCap, Psychologica	l Canital Construc	t (Ganaral PsyCa	n)		

Mean scores of PsyCap-construct according to demographic and labor characteristics of participants (n=1271) Variables n (%) mean ± SD t/F-value p-value by Male 690 54% 3.4214 .44069 .317 .011* Female 581 46% 3.3579 .44008 < 30 years</td> 117 9% 3.3519 .45652 .993 .410

Gender	Male	690	54%	3.4214 .44069	.317	.011*
	Female	581	46%	3.3579 .44008		
Age (years)	< 30 years	117	9%	3.3519 .45652	.993	.410
	30-39	408	32%	3.3778 .45078		
	40-49	529	42%	3.4169 .43134		
	50-59	203	16%	3.3750 .43646		
	≥ 60 years	14	1%	3.4829 .48350		
Educational situation	Primary Education and below	41	3%	3.5115 .40987	4.423	.004**
	General Certificate of Secondary	339	27%	3.4038 .43114		
	Vocational Education and Training	111	9%	3.5034 .40326		
	University Degree and above/higher	780	61%	3.3654 .44952		
Economic Activities	Manufacturing industry	451	35%	3.4726 .41456	6.476	.000**
	Wholesale and retail trade	73	6%	3.3555 .46355		
	Transport and Storage	80	6%	3.4268 .43761		
	Information and Communications	67	5%	3.1739 .47100		
	Financial and Insurance activities	68	5%	3.3232 .41363		
	Professionals, Scientists and Technicians	80	6%	3.2096 .47619		
	Administrative and Auxiliary services	101	8%	3.3716 .41054		
	Sanitary and Social Services	313	25%	3.4039 .44253		
	Other services	38	3%	3.2929 .45754		
Position	Central Services and Administration	273	21%	3.3541 .41699	7.751	.000**
	Production and Operations Area	807	63%	3.3786 .44731		
	Manager Area	191	15%	3.5053 .43441		
Length	Less than a year	32	3%	3.4641 .33951	.390	.760
	For 1 to 5 years	263	21%	3.3959 .44046		
	For 6 to 10 years	201	16%	3.3750 .46100		
	More than 10 years	775	61%	3.3927 .44063		
Date / Pandemic phase	2020 September to December	237	19%	3.6474 .54956	4.360	.005**
	2021 January to March	453	36%	3.5847 .53953		
	2021 April to June	337	27%	3.5721 .55263		
	2021 July to December	244	19%	3.5509 .57222		

The results of the PsyCap level according to the characteristics analysed separately for men and women are shown in the table.

The differences found in the level of Psychological Capital and dimensions only varied significantly depending on:

The differences found in the level of **Psychological Capital and dimensions** only varied significantly depending on:

- Educational level for men.
- Position for women.

- Although, the effect of the <u>Pandemic phase</u> or the of completion of the program was related to a lower level of **resilence** in 2021 in both men and women and on the level of **PsyCap**-construct in the case of women.

For the rest of the analyzed variables, no relevant differences were observed between both groups.

Materials and methods

- **Population:** causal or incidental sampling of employees of companies associated with a collaborative mutual society with the Social Security Institute in Spain, who were invited to participate in an online session to explain this program from June 2020 to December 2021.
- A cross-sectional **study** was conducted in Spain with total 1.271 persons were included in the analysis (581 women, 690 men).
- Statistical analyses: The demographic variables were described with mean, standard deviation, number and percentage as appropriate. Differences in continuous variables were examined by independent-sample t-test or one-way ANOVA. Pearson's correlation analysis was used appropriately to examine relations among PsyCap and its dimensions and the rest of the variables. Data treatment and statistical analyses were preformed using the statistical package SPSS 17.0.

Instrument: PsyCap was measured with the OREA (2), which consists of 12 items scored on a Likert scale of 1 (very disagree) to 4 (strongly agree) validated for use in Spain. Items on demographic and employment characteristics are also included.

For its application a scale was established to allow us to classify the level of Psycap into three levels (low, medium and high) based on the average scores obtained. Higher values indicated a higher level of PsyCap and all four components.



Participants experience phases

Awareness and consideration

• Associated companies received informative video and diptych about the program and also were invited to participate in "online sessions".

Decision

- Interested companies were advised on implementation process.
- Designed materials as posters and mail were provided to explain and raise awareness of employee participation.

Program implementation

• Participants were provided a secure access to our "Bienestar Universal" platform which hosted the new questionnaire that allow them to complete it online from any device.

Feedback of results

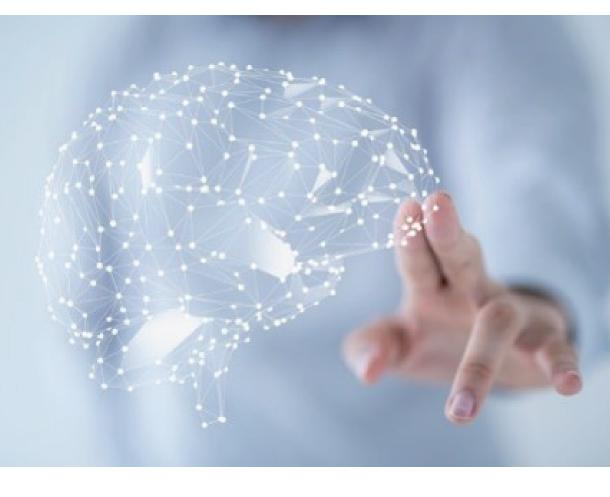
- Individual report is obtained on-time to each participant with recommendations to strengthen their capacities.
- Aggregate report is presented to the company and a schedule of actions is established to facilitate employees training.

Training and follow-up

- Weekly delivery of pills to employees as reinforcement and training their Psychological Capital.
- Materials are available in video format and brochure recommendations.

The interventions were carried out from September 2020 to December 2021.

Conclusion



The results show different levels of PsyCap and its components (except hope) among workers based on their personal characteristics by sex, educational level, activity and type of position held. As well as the effect of the COVID-19 pandemic.

Previous studies suggest that the four components of PsyCap (self-efficacy, hope, resilience and optimism) can be modified using effective measures, so a psychological capital intervention program based on the PCI model was developed (3,4).

The program makes available to companies and workers a tool to evaluate and train PsyCap and provides informational material to promote their knowledge, helping to reduce the stigma to address mental health in the workplace.

However, there is a low level of participation of all workers in companies, so future activities should be aimed at improving the level of participation of companies and workers, after warning about the importance of promoting health and psychological well-being at work and increase the participation of workers in training and improve PsyCap levels.

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