

Background

- Burnout is a syndrome based on the concept that chronic stress experienced by a person in their workplace remains unmanaged
- Prevalence of burnout is high in healthcare professionals
- Burnout can have negative consequences that affect individuals, patients, health teams and institutions
- As the current pandemic persists, increased levels of symptoms of burnout are being reported
- The expression of burnout in pharmacists who provide Telepharmacy services in Canada has not been studied

Materials and Methods

Design:

Cross-sectional electronic survey using a convenience sample of responses

Objectives:

<u>Primary</u>: To describe burnout expression in pharmacists who provide Telepharmacy services in Canada

Secondary: To compare the total score in each of the three domain's expression of burnout between groups of factors related to pharmacy practice and sociodemographic characteristics

Participants:

All pharmacists employed by a privately funded company who provided Telepharmacy services in full, or as a part of their pharmacy employment in Canada for at least four weeks prior to the study period

Evaluation Instruments:

The Maslach Burnout Inventory-Human Services Scale (MBI-HSS)

- Comprised of 22 statements of job-related feelings, each statement having a score of 0-6 based on the frequency a respondent experienced those feelings
- Encompasses 3 domains*: emotional exhaustion (EE), depersonalization (DP) and personal accomplishment (PA)

Methods:

- By email, 120 Telepharmacists were invited to take part in an electronically deployed survey (Survey Monkey[®]) on March 23, 2021
- Participants were informed of survey purpose, expected contents, and estimated time for completion; participation was voluntary and anonymous
- Data collected included MBI-HSS domain scores, professional and sociodemographic characteristics; personal identifiers were not recorded
- Reminder emails were sent on March 29, April 5 and April 13.

Data Analysis:

- Descriptive and inferential analyses were performed:
- Frequency and simple percentages were used to describe qualitative variables
- Bivariate analyses were used to evaluate differences between subgroups and logistic regression analysis was performed to examine the association of categorical variables

Results

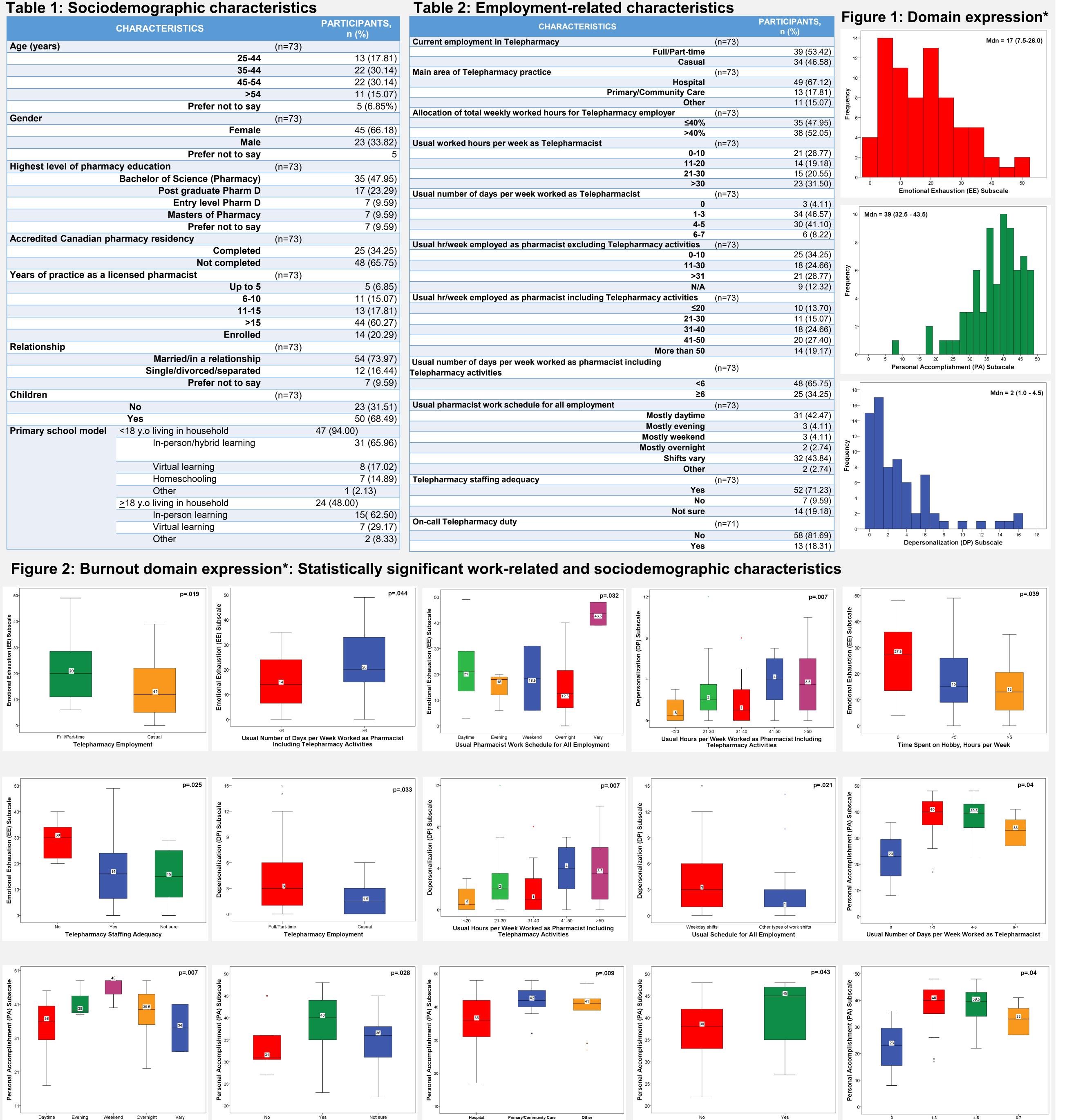
- Participation rate 63% (75/120)
- Completion rate 97% (73/75)
- Median time for survey completion was 8 (IQR 7-11) minutes

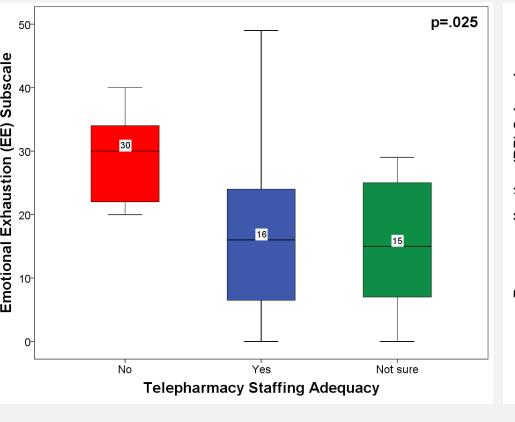
Expression of Burnout Symptoms in Pharmacists Who Provide Telepharmacy Services in Canada

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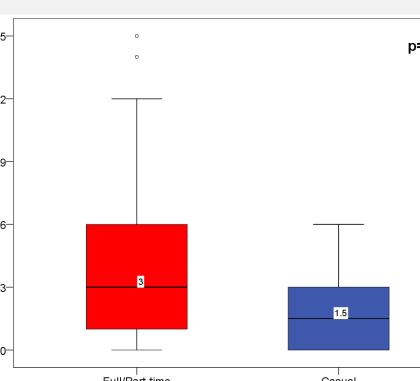
Results

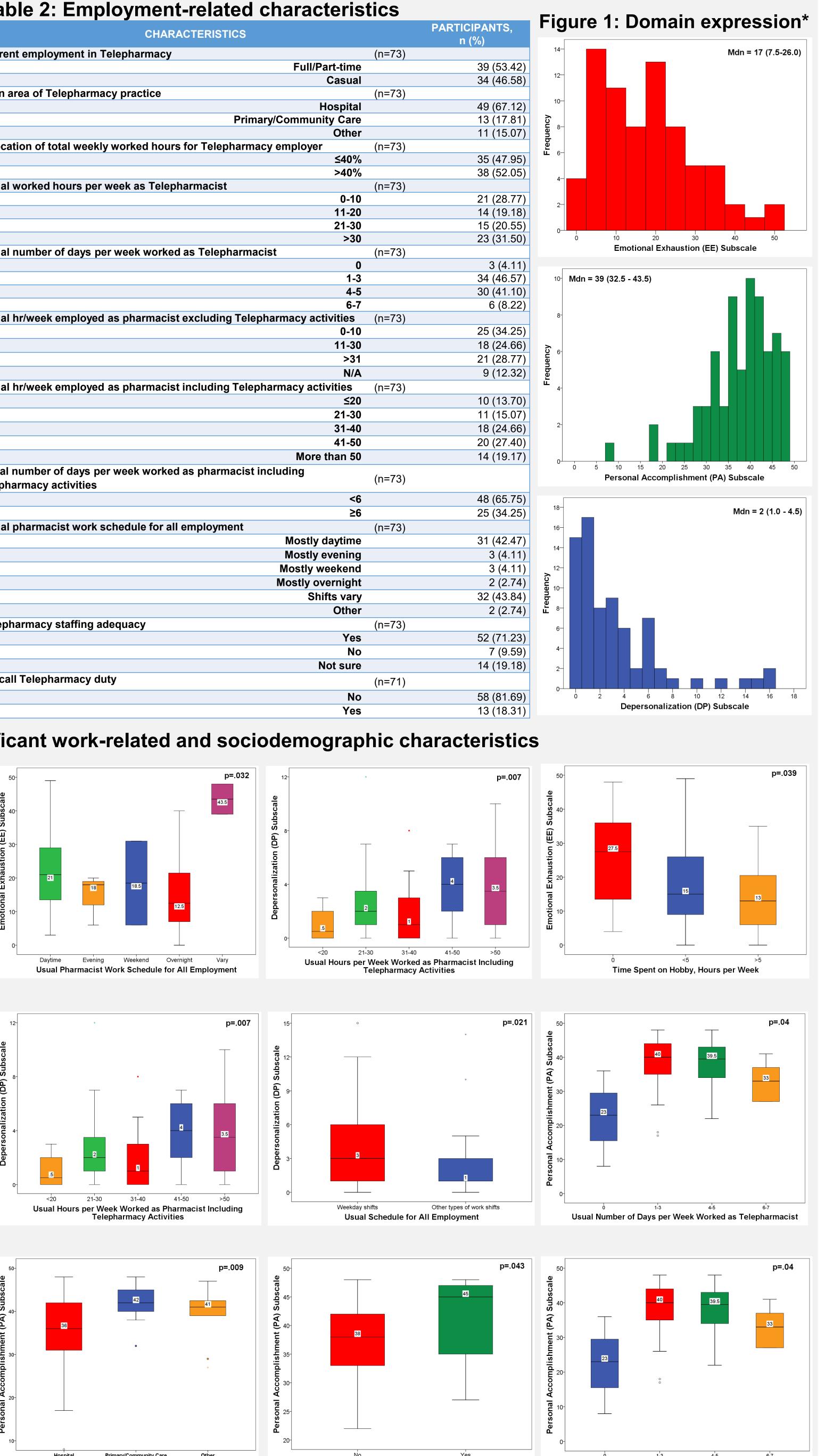
Table 1: Socio	demographic characte	eristics		Table 2: Employm
	CHARACTERISTICS		PARTICIPANTS, n (%)	C
Age (years)		(n=73)		Current employment in Telepharn
	25-44	(13 (17.81)	
	35-44		22 (30.14)	Main area of Telepharmacy practi
	45-54		22 (30.14)	
	>54		11 (15.07)	
	Prefer not to say		5 (6.85%)	
Gender		(n=73)	0 (0.0070)	Allocation of total weekly worked
	Female	(11 7 0)	45 (66.18)	
	Male		23 (33.82)	Usual worked hours per week as
	Prefer not to say		5	Usual worked hours per week as
Highest level of pharmacy education		(n=73)		
	(11 7 0)	35 (47.95)		
		17 (23.29)		
		7 (9.59)	Usual number of days per week w	
	Entry level Pharm D Masters of Pharmacy		7 (9.59)	
	Prefer not to say		7 (9.59)	
Accredited Canadian pharmacy residency		(n=73)	7 (0.00)	
Completed		(11-7-0)	25 (34.25)	Usual hr/week employed as pharr
	Not completed		48 (65.75)	
Years of practice as a licensed pharmacist		(n=73)	+0 (00.70)	
Up to 5		(11-7-0)	5 (6.85)	
	6-10		11 (15.07)	Usual hr/week employed as pharr
11-15 >15 Enrolled			13 (17.81)	
			44 (60.27)	
			14 (20.29)	
Relationship Married/in a relationship Single/divorced/separated Prefer not to say		(n=73)		
		(11-73)	54 (73.97)	
			12 (16.44)	Usual number of days per week w
			7 (9.59)	Telepharmacy activities
Children		(n=73)	1 (0.00)	
No		(11 7 0)	23 (31.51)	Usual pharmacist work schedule
Yes			50 (68.49)	
Primary school model	<18 y.o living in household	Δ	7 (94.00)	
,, ,	In-person/hybrid learning		31 (65.96)	
	Virtual learning		8 (17.02)	
	Homeschooling		7 (14.89)	Telepharmacy staffing adequacy
	Other		1 (2.13)	
	>18 y.o living in household	2	24 (48.00)	
	In-person learning		15(62.50)	On coll Telephermesou dut
	Virtual learning		7 (29.17)	On-call Telepharmacy duty
	Other		2 (8.33)	





Usual Pharmacist Work Schedule for All Employment





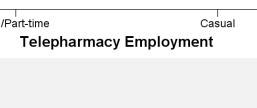




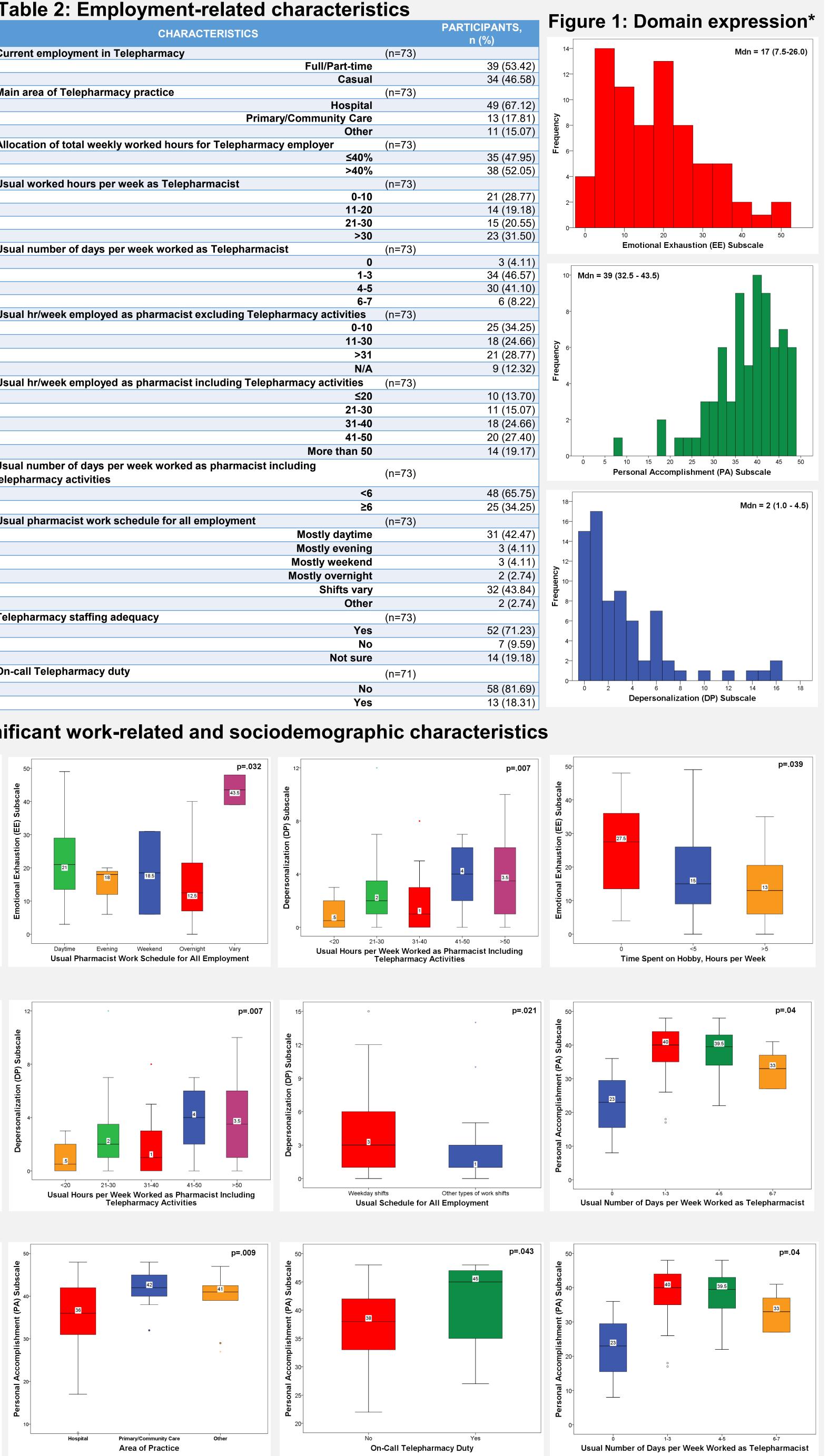




Telepharmacy Staffing Adequacy







* Note: Elevated EE and DP Domain Scores indicate higher expression of burnout, conversely, lower PA Domain Scores indicate higher expression of burnout

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Results

Sociodemographic and work-related factors that were related to burnout domain expression

North West

- Pharmacists who provide hospital services significantly predicted lower PA compared to other types of Telepharmacy practice (B=2.792, p=.026)
- Current Telepharmacy employment status significantly predicted EE (B= -6.434, p= .020).
 - Part\full-time employees have a higher expression of EE compared to casual Telepharmacy employment
- Pharmacist practice hours excluding Telepharmacy activities for more than 10 hours/week significantly predicts higher DP expression (B = .918, p= .033)
- Pharmacists who worked \geq 40 hours per week in total for all pharmacy practice predicts higher DP expression (B= .714, p= .013)
- Telepharmacists who usually work evening, weekend, overnight or variable shifts have significantly higher PA expression compared to those who typically work weekday shifts (B= .233, p= .047)
- Telepharmacy work schedules that do not include weekday shifts may prevent the overexpression of DP (B=-2.051, p=.022)
- A Telepharmacy work schedule that is primarily weekend shifts may decrease expression of EE compared to primarily weekday shifts (B= -9.633, p= .040)
- A Telepharmacy work schedule that is typically weekend shifts is more likely to express higher PA (B= 9.983, p= .004)
- Pharmacist time spent on a hobby (excluding physical activity) are less likely to express high EE (B= -5.592, p= .007)

Conclusions

- To the author's knowledge, this is the first reported data on the expression of burnout in pharmacists who provide Telepharmacist services in Canada amidst a global pandemic
- Several significant differences in burnout domain expression were found between workrelated and sociodemographic characteristics
- Some work-related and sociodemographic factors may contribute to, and some may lessen the expression of burnout
- Variable work schedule, 40 hours or less per week of pharmacy practice, and allotting time for hobbies may reduce expression of burnout
- By using the same assessment tool, larger and longitudinal studies among this and similar cohorts of pharmacists could help to identify work-related and sociodemographic factors that could be addressed to decrease the expression of burnout

Disclosure Summary

Authors of this poster have the following to disclose concerning possible personal or financial relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation:

Newman P (author 1) – Employed by Northwest Telepharmacy Solutions Polyakova O (author 2) – Employed by Northwest Telepharmacy Solutions Dhaliwall S (author 3) – Employed by Northwest Telepharmacy Solutions McDonald K (author 4) – Director, Northwest Telepharmacy Solutions





