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The Tobacco Dependence Clinic: Gender Issues and Possibilities in Cessation Treatment

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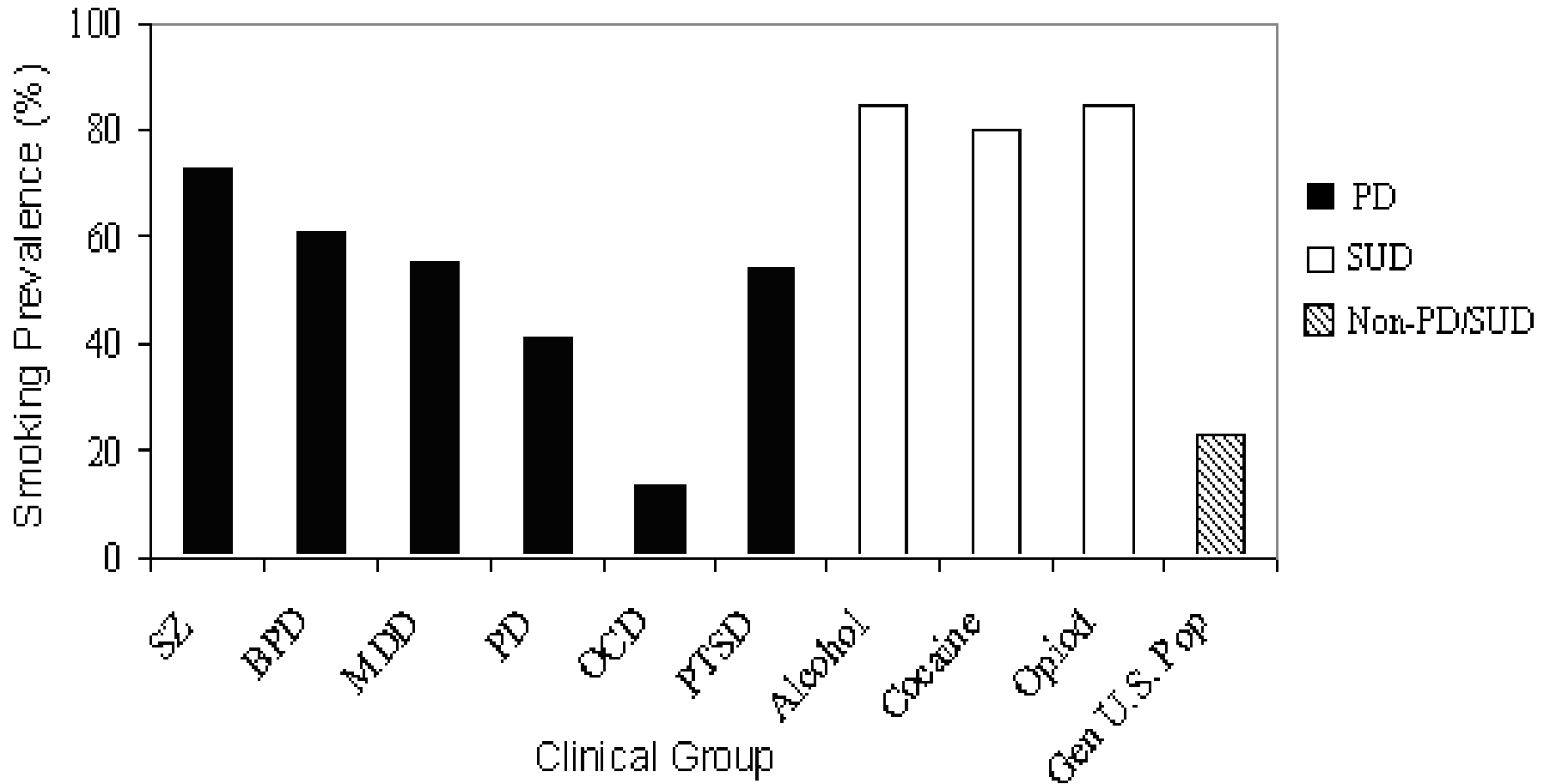
The Tobacco Dependence Clinic: Gender issues and possibilities in Cessation Treatment

Date: April 19th 2012

Chizimuzo Okoli and Milan Khara

iTAG 2012 Annual Spring Meeting

Background & Significance



Program Description

- The Tobacco Dependence Clinic (TDC) is a program that provides **behavioural counselling** and up to **6-7months** of **no-cost pharmacotherapy** for clients through VCH Mental Health and Addiction Services
- Program is run with a team of nurses, counsellors, respiratory therapists, and a physician.
- Currently in 7 Addictions services located in community health centres in Vancouver.

Eligibility:

- 19 years or older
- Tobacco dependent
- Have a history of substance use disorder and/or mental illness
- Financially disadvantaged



Combination Pharmacotherapy

Nicotine Replacement Therapy



Patch



Gum



Lozenge



Inhaler

Oral Medications



Zyban



Champix



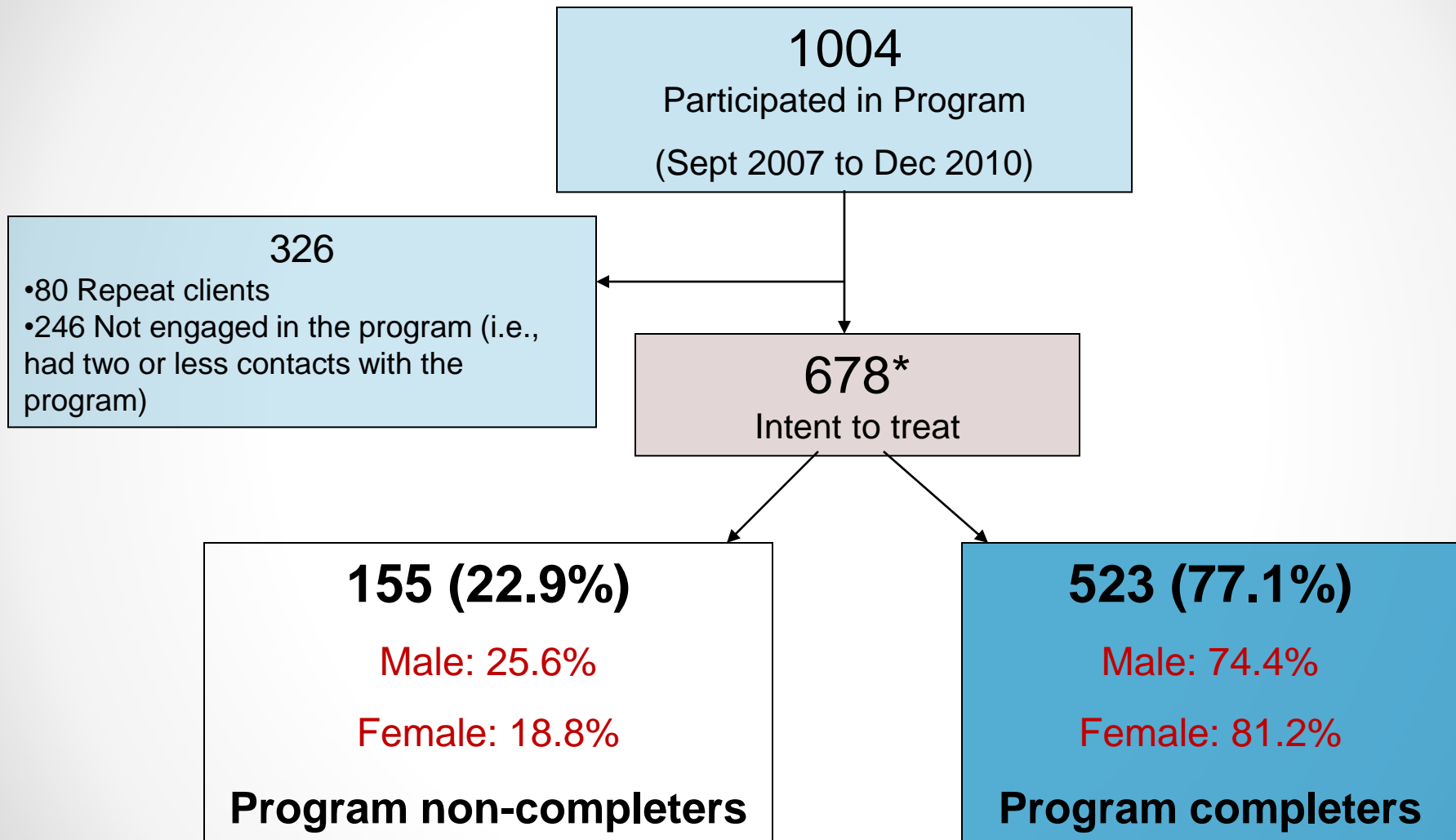
Program philosophy: Quitting smoking is a process and not an event

Aims

- To examine sex/gender differences in factors associated with substance use, psychiatric disorders, and smoking among participants of the TDC program
- To examine predictors of program completion and smoking cessation among participants of the TDC program



Sample



*Three individuals selected 'other' in response to gender and were not included in analyses

Substance Use Disorder & Psychiatric Disorder History (N = 675)

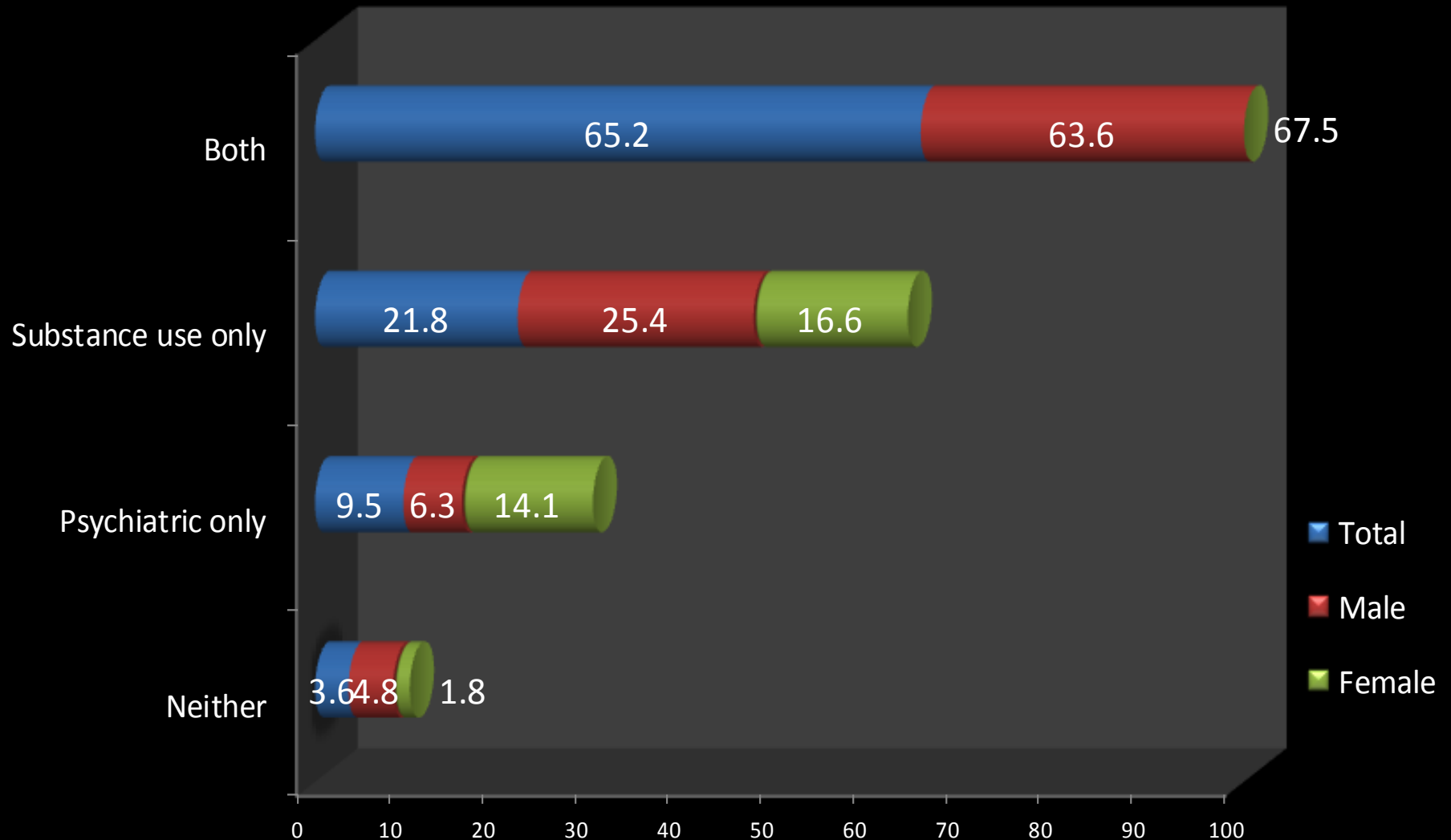
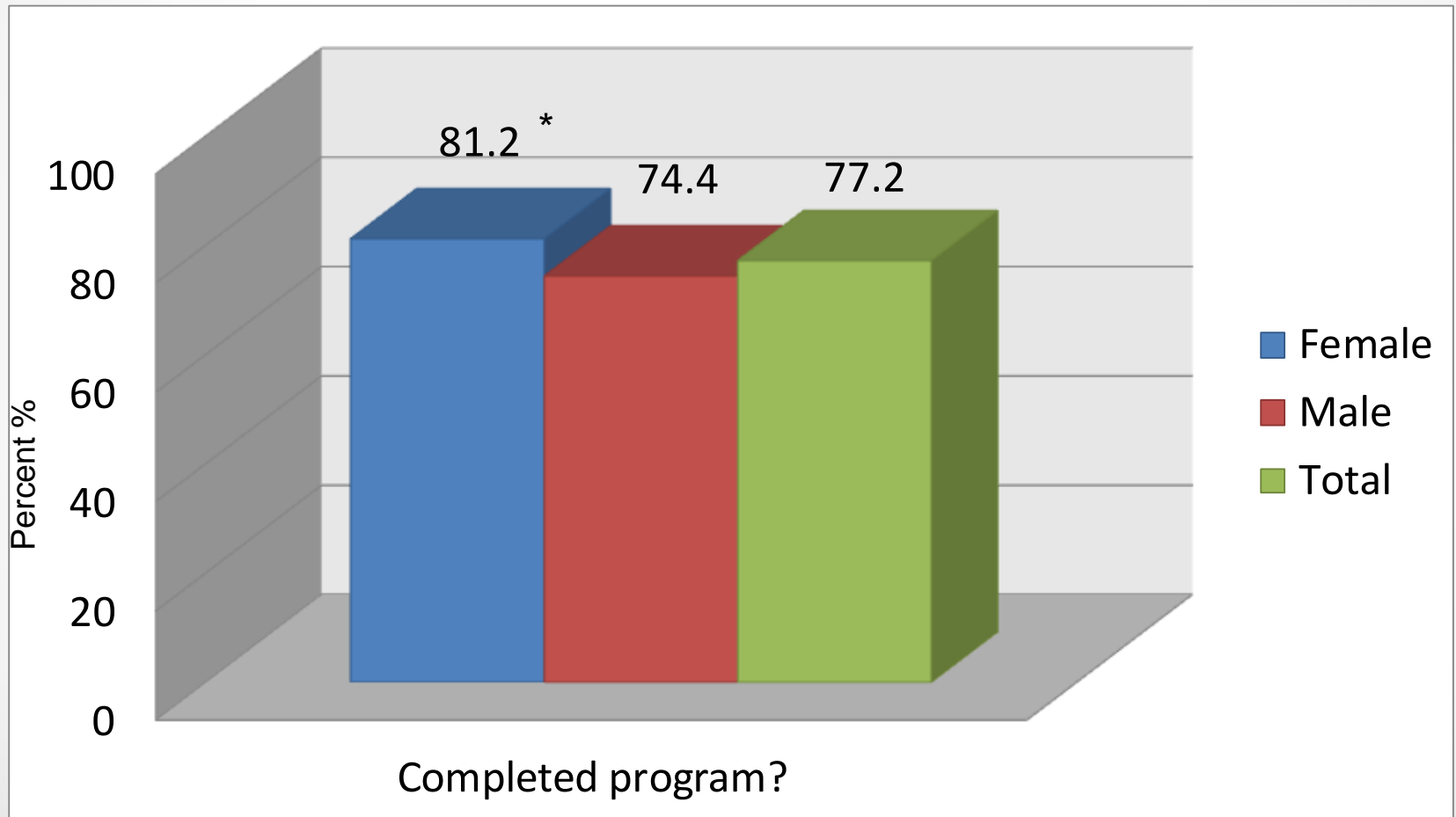


Table1. Baseline Characteristics (N = 678)

	Women		Men	
	Mean	SD	Mean	SD
Age of participant (years)**	44.3	11.1	50.7	10.1
Cigarettes smoked per day**	18.7	8.6	21.6	11.3
Age at smoking initiation**	14.4	4.8	15.6	6.4
Importance of quitting (scale of 0 'low' to 10 'high')	9.0	1.3	9.0	1.4
Confidence in quitting** (scale of 0 'low' to 10 'high')	7.0	2.4	7.4	2.4
FTND at Baseline	5.8	2.0	6.1	2.0
CO level**	19.5	12.4	21.8	15.1

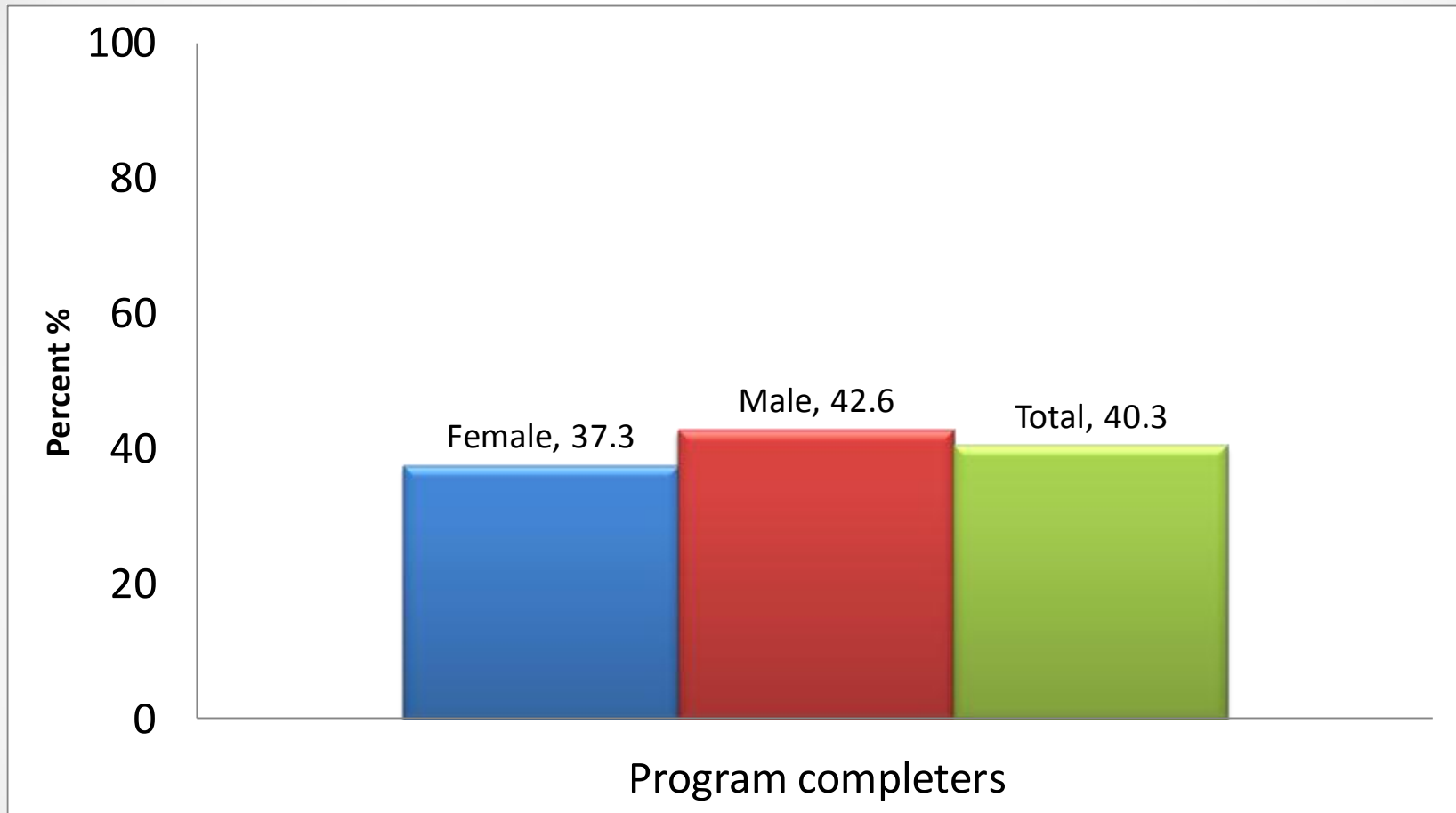
Note. **i indicates significant gender differences

Program Completion (n = 675)



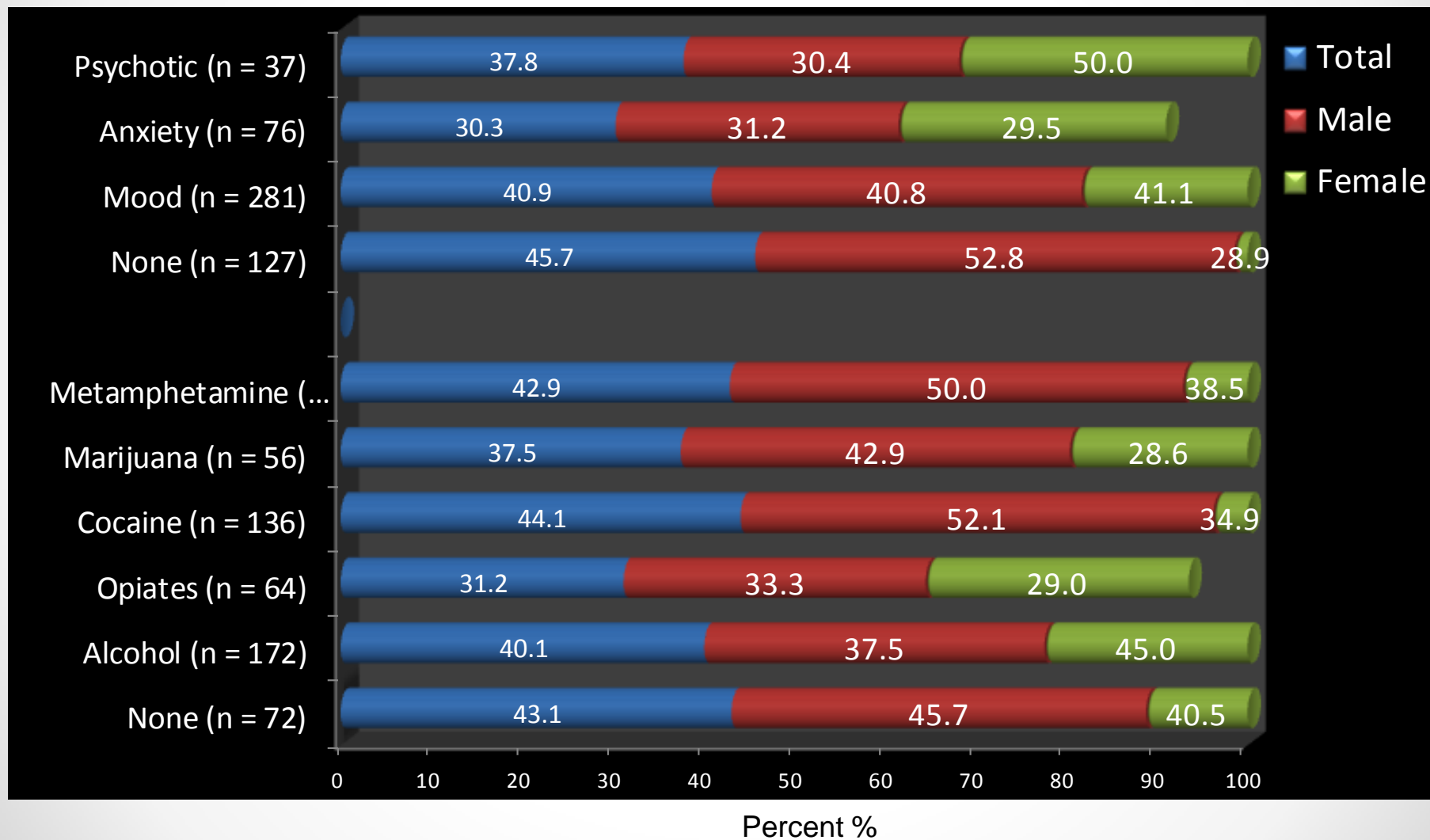
* Statistically significant differences by gender

Smoking Cessation* Outcomes at end-of-treatment (n = 521)



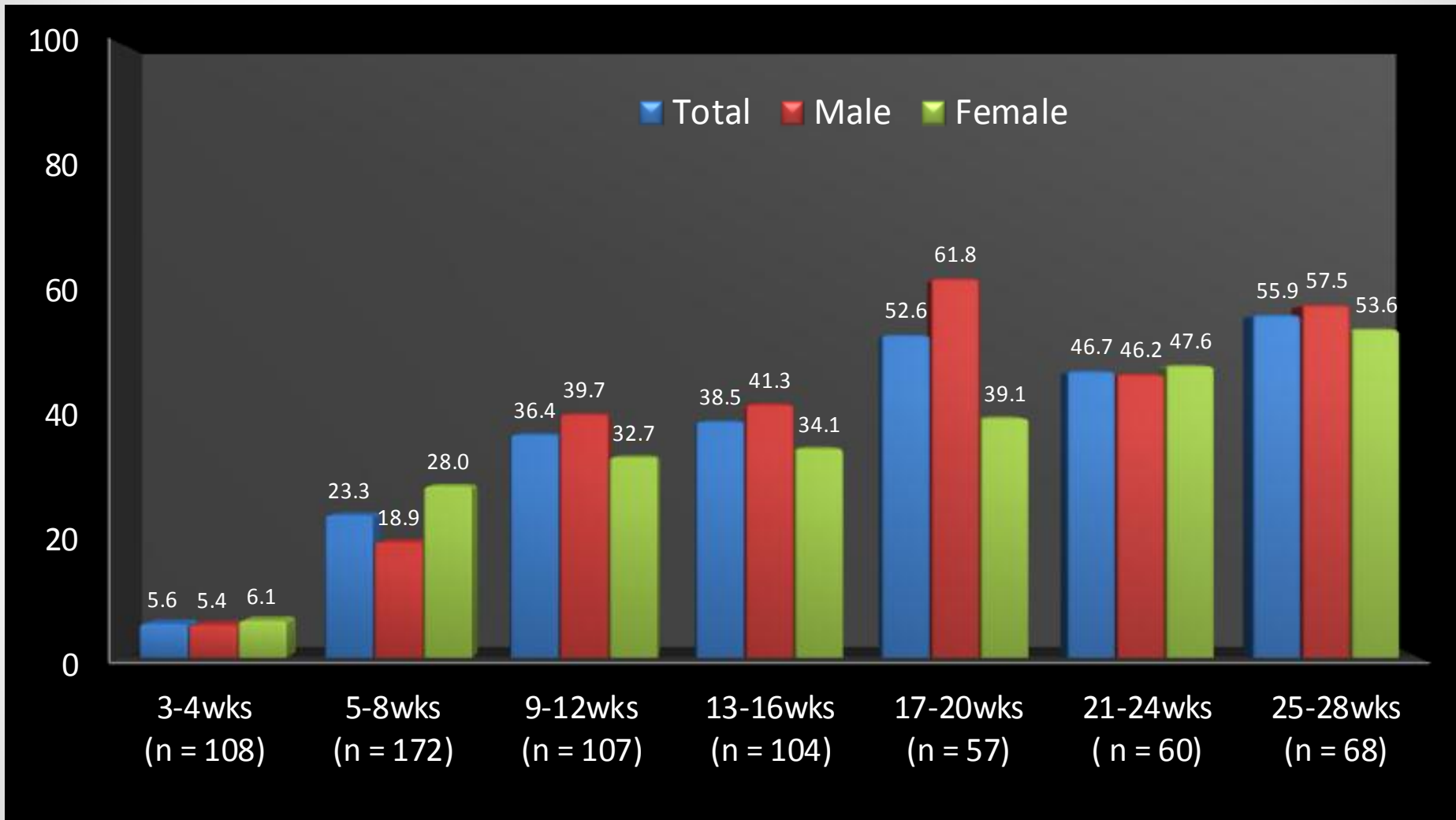
*Smoking cessation at end-of-treatment (i.e., anytime between 8 weeks to 26 weeks) verified by expired CO levels

Smoking cessation by SUD and PD among program completers (n = 521)*



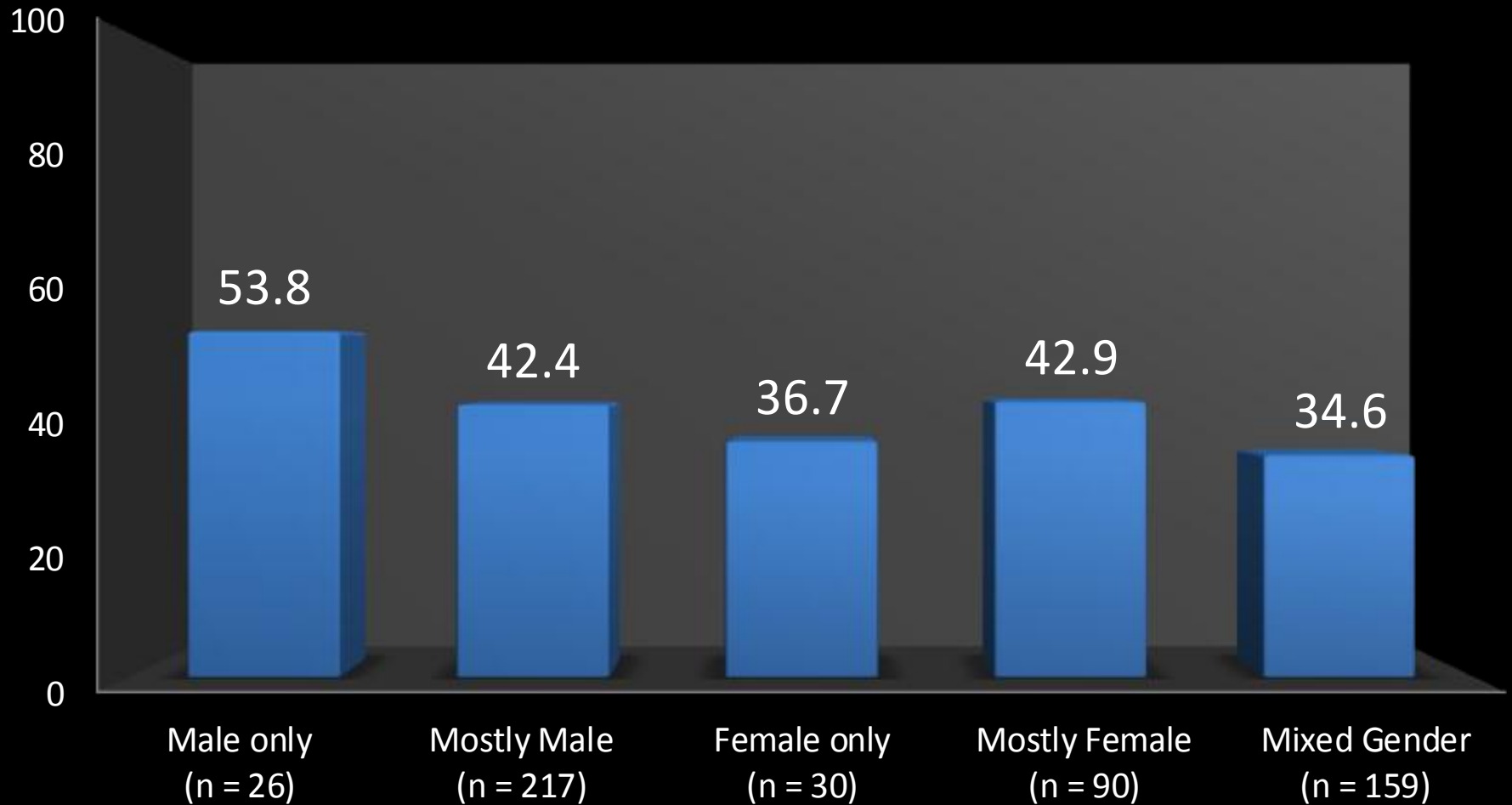
* No statistically significant differences between groups

Smoking Cessation by length of stay in the program (n = 675)*



* Statistically significant differences between week categories in total sample and by gender

Smoking Cessation by type of group cohort (n = 523)*



* **No Statistically significant differences between groups**

Multivariate predictors^a of program completion (n = 675^b)

Predictors	Total Sample		Males		Females	
	Odds Ratio	95% CI	Odds Ratio	95% CI	Odds Ratio	95% CI
Gender			--	--	--	--
Male (referent)	1.0	-				
Female	1.78**	1.19-2.65				
Age	1.03**	1.01-1.05	1.03**	1.01-1.06	--	--
Importance to quit	-	-	-	-	1.26*	1.01-1.56

- a. Employing a two-step model building process in which variables associated with smoking cessation (at alpha < 1.0) in the unadjusted analyses are included in a second-step for adjusted analyses. Only variables which were significantly predictive of smoking cessation in the final adjusted multivariate model are shown.

- b. Analysis includes repeat clients to the TDC

* = p < .05, ** = p < .001, *** = p < .001

Multivariate predictors^a of smoking cessation among program completers at end of treatment (n = 494)

Predictors	Total Sample		Males		Females	
	Odds Ratio	95% CI	Odds Ratio	95% CI	Odds Ratio	95% CI
History of PD					--	--
None (referent)	1.00	-	1.00	-		
Mood	.86	.55-1.36	.68	.39-1.19		
Anxiety	.53*	.28-1.00	.41*	.16-1.00		
Psychotic	.64	.28-1.45	.28*	.10-.80		
FTND	.89*	.80-.99	.88*	.78-.99	--	--
Total Visits	1.07***	1.03-1.10	1.08***	1.04-1.12	1.05*	1.01-1.09

a. Employing a two-step model building process in which variables associated with smoking cessation (at alpha < 1.0) in the unadjusted analyses are included in a second-step for adjusted analyses. Only variables which were significantly predictive of smoking cessation in the final adjusted multivariate model are shown.

* = p < .05, ** = p < .001, *** = p < .001

Summary of Key Findings

- Associations with gender:
 - Women were more likely to have a history of a mental illness and complete the program.
 - Men were more likely to have a substance use disorder, be older, smoke more cigarettes per day, and have greater confidence in their ability to quit
- Associations with smoking cessation in stratified analysis:
 - Among men, poor smoking cessation was associated with having an **anxiety or psychotic disorder** (as compared to no psychiatric disorder), **higher nicotine dependence** at baseline, and **less visits to the program**.
 - Among women, poor smoking cessation was associated with **less visits to the program**.