



Ontario Tobacco Survey

Follow-up 4 Summary Report: Twenty-Four Month Data

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Study Team for the Ontario Tobacco Survey

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Appendices

Appendix A – [OTS MDS Questionnaire - F4 Cohort 6 \(January – June 2010\)](#)

Appendix B – [OTS Follow-up 4 Data Dictionary \(24-month data\)](#)

Appendix C – Please also refer to the updated Appendices in the OTS Technical Report 2 document:

[OTS Follow-up Question Database \(updated September 2010\)](#)

[OTS Follow-up Question Edits \(.xls, updated September 2010\)](#)

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Overview

The Ontario Tobacco Survey (OTS) is a provincial longitudinal survey of adult smokers and cross-sectional survey of non-smokers on smoking attitudes and behaviours. It was undertaken to evaluate and inform the Smoke-Free Ontario Strategy and to gain a better understanding of the processes of, and influences on, smoking cessation and relapse. The OTS is a unique study as smokers are re-interviewed every six months for up to three years. Data collection for the OTS began in July 2005; at the present time, follow-up data collection is ongoing.

This summary report describes the twenty-four month follow-up sample, as well as provides specifics regarding loss-to-follow-up. This document is an extension to earlier Technical Reports for the OTS: the first technical report outlined the OTS design and baseline data while the second technical report detailed the follow-up study procedures as well as described the six and twelve month data. Further, the Follow-up Three Summary Report outlined the eighteen month follow-up data for all six cohorts in the longitudinal study.

This report outlines specific details regarding the twenty-four month follow-up data for all five cohorts included in the Minimal Data Set (MDS). The MDS was created to increase the number of follow-up interviews from three (18-months) to six (36-months), while making the questionnaire less onerous to complete. It was incepted after the first cohort of longitudinal study participants had completed their follow-up 3 interview, and thus this cohort is not included in the MDS.

Follow-up 4 data were collected from January 2008 through June 2010. Smokers (any smoking in the past six months at baseline) completed twenty-four month follow-up interviews averaging less than 9 minutes in length. The 24-month retention rate for the OTS was 70% of the baseline sample; the contact rate was 93% and the cooperation rate was 98%.

Those using the OTS data should refer to the OTS Technical Report 1, Technical Report 2, and Follow-up 3 Summary Report for specific details regarding the OTS study design as well as specifics regarding the sample at baseline, six and twelve months follow-up, and eighteen month follow-up respectively.

Twenty-Four Month Follow-up Study Data

Follow-up 4 Study Sample and Retention

Table 1 details the twenty-four month follow-up statistics by cohort, including the interviewed sample of recent smokers at F4, contact, cooperation and retention rates, as well as survey length. As seen in Table 1, the recent smoker contact rate at F4 was 93% and the cooperation rate was 98%. The OTS twenty-four month retention rate from baseline was 70%.

Table 1: Twenty-Four-Month Follow-up (F4) Statistics of Recent Smokers in the OTS, by Cohort and Overall

Follow-up 4	Cohort 2	Cohort 3	Cohort 4	Cohort 5	Cohort 6	All Cohorts
Data Collection Period	Jan-Jun 2008	Jul-Dec 2008	Jan-Jun 2009	Jul-Dec 2009	Jan-Jun 2010	Jan '08 – Jun '10
Completed F4 Interviews	519	534	530	533	517	2633
Partial Interviews*	0	1	0	0	0	1
Eligible sample †	599	615	625	620	594	3053
Contact Rate (%) ‡	94.3	93.8	91.7	92.5	93.6	93.2
Cooperation Rate (%) §	97.6	98.0	97.4	97.6	98.3	97.8
Retention from Baseline (%)	69.3	71.1	70.5	70.9	69.0	70.2
Average survey length (minutes)	8.7	8.4	8.0	9.3	8.5	8.6

Note: F4 = follow-up four (twenty-four month follow-up)

* Partial Interviews are those in which respondents began the survey but did not complete the full interview

† Number of participants eligible for F4 (i.e., respondents eligible for F1, F2, or F3, less those who at F3 explicitly asked to be removed from the study, those identified at F3 as being deceased or out of the country, and those who missed two consecutive follow-up interviews

‡ Percentage of the eligible sample that was contacted at F4¹

§ Cooperation rates were calculated according to AAPOR COOP#4

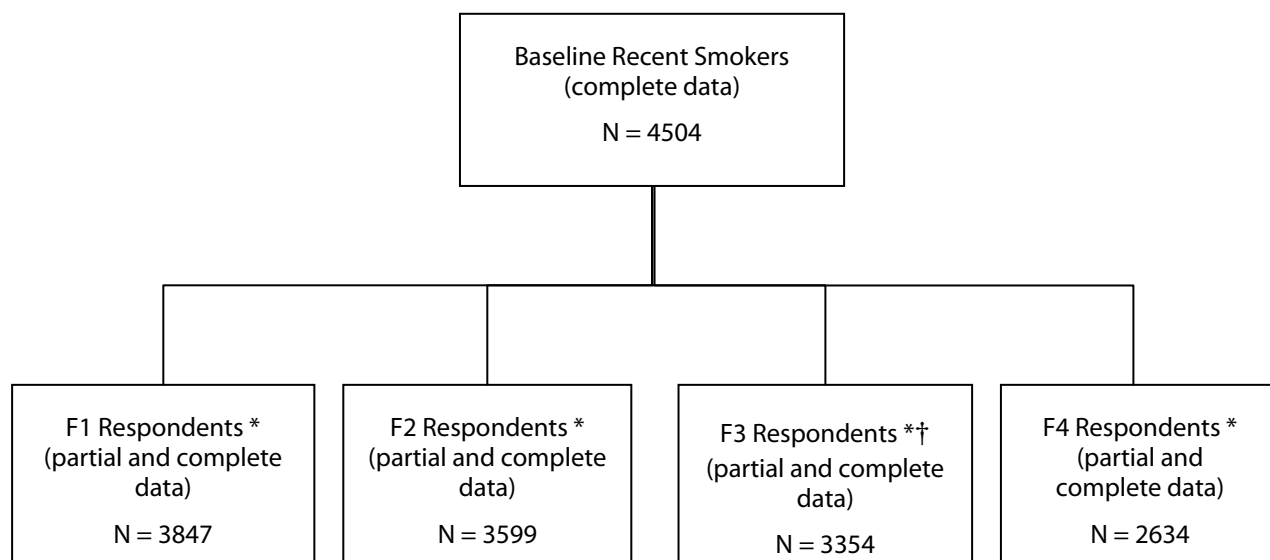
|| Percentage of baseline respondents who were retained at F4, including both completed and partial interviews [e.g., (536+1)/750=71.6%]

Source: OTS Twenty-Four Month Follow-up Data²

Longitudinal Study Participants

Partial interviews (BL N=67; F1 N=12; F2 N=11; F3 N=4; F4 N=1) represent those where the respondent started the interview, but terminated the interview prior to completion. Recent smokers with partial data at baseline are not eligible for follow-up. At baseline, 4504 recent smokers had complete data and were eligible for recontact; at six-month follow-up (F1), data was available on 3847 participants; at twelve-month follow-up (F2), data was available on 3599 participants; at eighteen-month follow-up (F3), data was available on 3354 participants; and at twenty-four month follow-up (F4), data was available on 2634 participants (Figure 1). Overall, 2332 respondents have full data from baseline to twenty-four-month follow-up. Baseline recent smokers eligible for follow-up (n=4504) who only provide partial data during a follow-up interview are recontacted for subsequent interviews unless they explicitly request to be withdrawn from the study, are identified as deceased, incompetent or out of the country. In addition, follow-up participants are withdrawn from the study if they are not successfully contacted for two consecutive interviews.^a

Figure 1: OTS Eligible Baseline Sample for Follow-Up and Interviewed Sample at Six, Twelve, Eighteen, and Twenty-Four Month Follow-Up Interviews



*Eligibility for follow-up is based on complete baseline data, continued consent, and not missing two consecutive follow-up interviews.

†Respondents who had missed two consecutive interviews were recontacted in W4; as a result, 8 respondents were interviewed in F3 who would otherwise been considered ineligible for recontact.

^a Respondents were not to be recontacted if they missed two consecutive follow-up interviews; however, there were eight respondents who met this criterion but were recontacted and interviewed at F3.

Figure 2 shows a flow diagram for OTS respondents with data at each time period to twenty-four months follow-up. Of the 4504 eligible baseline respondents, 451 respondents have no follow-up data, 1721 respondents are missing at least one of F1, F2, F3 or F4 and 2332 respondents have data at baseline, six, twelve, eighteen, and twenty-four months follow-up.

Figure 2: Flow Diagram for Longitudinal Respondents with interview data at Baseline, Six, Twelve, Eighteen, and Twenty-Four Month Follow-up

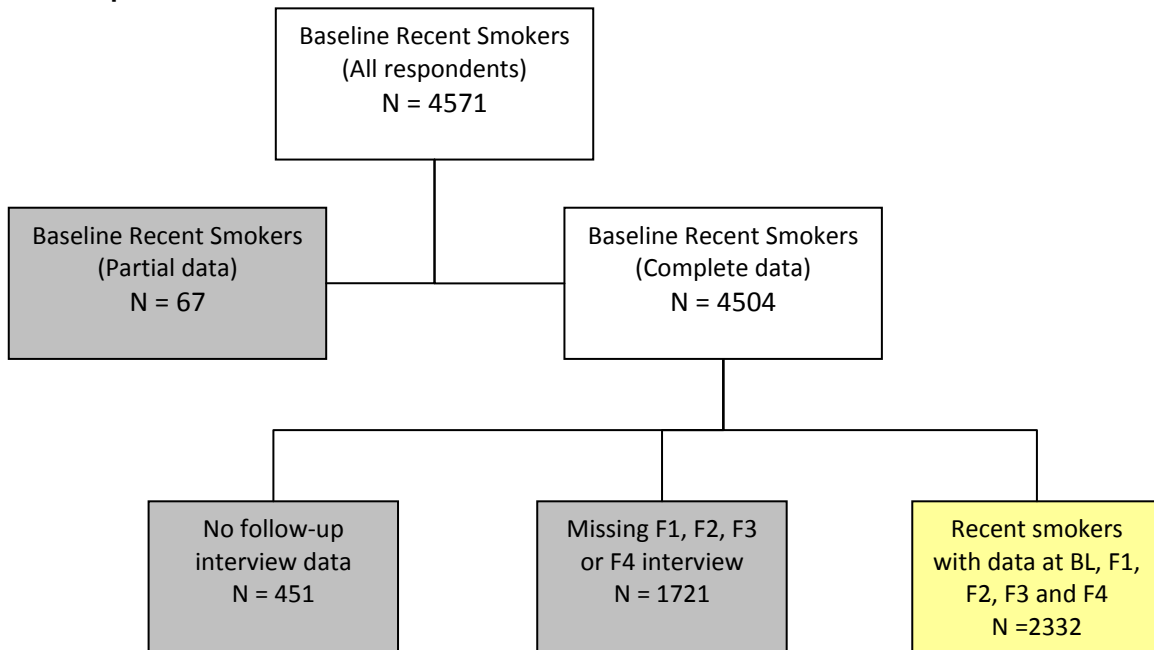


Table 2 provides basic baseline demographic information for the complete baseline recent smoker sample as well as those that are lost to follow up and those that are retained at twenty-four months. At F4, those lost to follow-up were more likely to be younger and single (Table 2).

Table 2: Demographic Characteristics of the OTS Sample of Recent Smokers at Baseline Eligible for Recontact, Respondents Lost-to-Follow-up and Respondents Retained at Twenty-Four Month Follow-up

Demographic	Baseline		24 month Lost to Follow-up		24 month Retained at Follow-up	
	No. of Interviews	Unweighted %	No. of Interviews	Unweighted %	No. of Interviews	Unweighted %
	N = 4504		N = 1870		N = 2634	
Age (years) *						
18-29	1007	22.5	576	31.0	431	16.5
30-44	1428	31.9	596	32.1	832	31.8
45-64	1741	38.9	572	30.8	1169	44.7
65+	298	6.7	112	6.0	186	7.1
Don't know/Refused	30		14		16	
Sex						
Male	2078	46.1	884	47.3	1194	45.3
Female	2426	53.9	986	52.7	1440	54.7
Marital Status *						
Married / Partner	2386	53.0	901	48.2	1485	56.4
Widowed	230	5.1	92	4.9	138	5.2
Divorced	449	10.0	173	9.3	276	10.5
Separated	307	6.8	133	7.1	174	6.6
Never married	1111	24.7	561	30.0	550	20.9
Don't know/Refused	21		10		11	
Regional Status (Area Code)						
807 / 705	1246	27.7	500	26.8	746	28.3
613	1094	24.3	462	24.7	632	24.0
519	1296	28.8	543	29.0	753	28.6
416 / 647 / 905 / 289	868	19.3	365	19.5	503	19.1
Highest Education *						
Less than high school	742	16.5	350	18.7	392	14.9
Completed high school	1360	30.2	587	31.4	773	29.4
Some college or university	506	11.2	189	10.1	317	12.0
Graduated college or university	1831	40.7	716	38.3	1115	42.3
Other	55	1.2	21	1.1	34	1.3
Don't know/Refused	10		7		3	
Smoking Status †						
Current smoking	4064	90.2	1692	90.5	2372	90.1
Formerly smoker	291	6.5	111	5.9	180	6.8
Never smoked	146	3.2	67	3.6	79	3.0
Don't know/Refused	3		0		6	

* $p < 0.05$ for difference between the sample lost to follow-up, and those responding to twenty-four-month follow-up

† Smoking status is based on the derived variable dvTSsmk3 as outlined in the OTS Technical Reports 1 and 2 Derived Variables document in Appendix C: current smokers are respondents who have smoked within the past month and have smoked 100+ lifetime cigarettes; former smokers are those who have smoked 100+ lifetime cigarettes but last smoked more than 30 days ago; never smokers are those who have not smoked 100+ cigarettes in their lifetime.

‡ Source: Ontario Tobacco Survey: Baseline and Twenty-Four Month Data³

Table 3 outlines key baseline smoking indicators among current smokers at baseline, as well as those that are lost to follow up and those that are retained at twenty-four months. Please refer to the OTS F4 Data Dictionary (Appendix B) for detailed codebook and variable frequencies.

Among current smokers at baseline, respondents who were lost to follow-up at the twenty-four month (F4) interview were more likely to smoke fewer cigarettes, although there was no difference in the proportion that reported being daily smokers at baseline (Table 3). In addition, there were no significant differences for time to first cigarette, and intention to quit at baseline between responders and those lost to follow-up at F4 (Table 3).

Table 3: Key Smoking Indicators among Current Smokers[†] at Baseline Eligible for Recontact, Respondents Lost-to-Follow-up and Respondents Retained at Twenty-Four Month Follow-up

Smoking Indicator	Baseline		24-Month Lost to Follow-up		24-Month Retained at Follow-up	
	No. of Interviews	Unweighted %	No. of Interviews	Unweighted %	No. of Interviews	Unweighted %
	N = 4064		N = 1692		N = 2372	
% Self-report daily smokers	3554	87.5	1470	86.9	2084	87.9
Average cigarettes smoked per day						
Less than 10	1276	31.8	554	33.3	722	30.7
10 – 20	1726	43.0	673	40.4	1038	44.1
More than 20	1016	25.3	438	26.3	593	25.2
Don't know/Refused	46		27		19	
Intention to Quit						
Within 6 months	1580	40.6	663	40.7	917	40.5
In the future, beyond 6 months	1366	35.1	589	36.2	777	34.3
Not planning to quit	914	23.5	363	22.3	551	24.3
I have already quit	32	0.8	14	0.9	18	0.8
Don't know/Refused	172		63		109	
Time to First Cigarette (minutes) ‡						
Less than 5 minutes	337	9.5	142	9.7	195	9.4
5 – 30 minutes	1902	53.5	766	52.4	1136	54.8
More than 30 minutes	1299	36.6	554	37.9	744	35.9
Don't know/Refused	526		230		297	

† Current smoking is determined from the derived variable dvTSsmk3 (see Appendix C- OTS Technical Reports 1 and 2) – self-defined daily, almost every day, or occasional smokers who have smoked within the past month and have smoked 100+ lifetime cigarettes

‡ Time to first cigarette measured for self-report daily/almost daily smokers only

§ Source: Ontario Tobacco Survey: Baseline and Twenty-Four Month Data³

References

- ¹ American Association for Public Opinion Research. Standard definitions: *Final dispositions of case codes and outcome rates for surveys. 5th edition*. Lenexa, Kansas: AAPOR, 2008.
- ² Ontario Tobacco Research Unit. *Ontario Tobacco Survey: Twenty-Four Month Follow-up Data* [computer file]. Toronto, ON: Ontario Tobacco Research Unit [producer], 2010.
- ³ Ontario Tobacco Research Unit. *Ontario Tobacco Survey: Baseline and Twenty-Four Month Data* [computer file]. Toronto, ON: Ontario Tobacco Research Unit [producer], 2010.