UkrAm Study of Thyroid Cancer and Other Thyroid Diseases in Ukraine Following the Chornobyl Accident

Progress Report for Quarter Beginning **16 May** and Ending **31 August 2000**

Project Manager

Dr. M. Tronko

Table 1. Tracing of the Cohort

	Selection I (Records Selected = 20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Duplicate Record Found	1453		50	67		40	1520		90
Total Subjects	18618	100,0	-50	13954	100,0	-40	32572	100,0	-90
1. Address Found	12828	68,9	-45	5572	39,9	3592	18400	56,5	3547
1.1 Address in the Study Oblasts	11599	62,3	-61	5305	38,0	3411	16904	51,9	3350
1.1.1 Subject is Temporarily Absent	309	1,7	63	107	0,8	70	416	1,3	133
1.2 Address Outside Study Oblasts, Same Country	1229	6,6	16	267	1,9	181	1496	4,6	197
2. Emigrated to Another Country	442	2,4	12	149	1,1	86	591	1,8	98
3. Not Found	5226	28,1	-21	8174	58,6	-3758	13400	41,1	3737
4. Ineligible	-	-	-	-	-	-	-	-	-
5. Deceased	122	0,7	3	59	0,4	40	181	0,6	43

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report

Selection I - the first 20,000 subjects who were originally selected from the dose files

Selection II - the remaining subjects in the dose files who were selected at the April 2000

Address Found - a current address has been found using at least one of the tracing sources

Temporarily Absent - subject is in the military, prison, school, hospital, or on vacation and is temporarily away from his/her permanent address

Address Outside Study Oblasts, Same Country - Includes those whose oblast of residence is known, but full address unknown and those for whom full address is known but it is outside the study oblasts

Not Found - a current address or vital status was unknown by all of the tracing sources (includes subjects known to be living in study oblasts, but full address is unknown)

Ineligible - subjects age at time of accident was determined to be out of the range

Table 2. Results of Contacts with Subjects for Screening Cycle 1 (Baseline Screening Examination Only**)

	Selection I (Records Selected = 20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Address Found in Study Oblasts	11599		-61	5305		3411	16904		3350
Invitation Sent/Subject Contacted	15919		950	2781		2702	18700		3652
1. First Invitation	**10817**	**100,0**	**111**	**2430**	**100,0**	**2351**	**13247**	**100,0**	**2462**
1.1 Accepted	2890	26,7	71	1801	74,1	1727	4691	35,4	1798
1.2 Refused	273	2,5	12	9	0,4	7	282	2,1	19
1.3 Did Not Respond	6547	60,5	-38	212	8,7	212	6759	51,0	174
1.4 Incorrect Address	1010	9,3	58	367	15,1	367	1377	10,4	425
1.5 Temporarily Absent	97	0,9	8	41	1,7	38	138	1,0	46
2. Subsequent Invitation/Contact	**5102**	**100,0**	**839**	**351**	**100,0**	**351**	**5453**	**100,0**	**1190**
2.1 Accepted	1952	38,3	759	218	62,1	218	2170	39,8	977
2.2 Refused	190	3,7	63	2	0,6	2	192	3,5	65
2.3 Did not respond	2045	40,1	-317	108	30,8	108	2153	39,5	-209
2.4 Incorrect address	774	15,2	292	14	4,0	14	788	14,5	306
2.5 Temporarily Absent	141	2,8	42	9	2,6	9	150	2,8	51

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Selection I - the first 19,000 subjects who were selected from the dose files
Selection II - the remaining subjects in the dose files who were selected at the April 2000
Temporarily Absent - subject is in the military, prison, school, hospital, or on vacation and is temporarily away from his/her permanent address
Subsequent Invitation - an invitation was previously sent to a subject and they refused, didn't respond, or the address was incorrect; a second or subsequent invitation was sent, possibly with additional information or corrected address.(this should be the total number of subjects to whom at least one additional invitation has been sent)

** A separate table should be prepared for the second screening examination

Table 3. Results of Previous Contact with Subjects Who Were Screened in Screening Cycle 1 (Baseline Examination Only)

	Selection I (Records Selected = 20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Who Came to Screening Examination	**7766**	**100.0**	**531**	**2931**	**100.0**	**2363**	**10697**	**100.0**	**2894**
1. Accepted Invitation	2294	29,5	711,0	525	17,9	505	2819	26,4	1216
2. Refused Invitation	100	1,3	22,0	24	0,8	22	124	1,2	44
3. Did Not Respond	2285	29,4	-504,0	576	19,7	534	2861	26,7	30
4. Other	3087	39,8	302,0	1806	61,6	1302	4893	45,7	1604

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Selection I - the first 19,000 subjects who were selected from the dose files
Selection II - the remaining subjects in the dose files who were selected at the April 2000

Table 4. Place of Screening for Subjects Who Were Screened in Screening Cycle 1 (Baseline Examination Only)

	Selection I (Records Selected =20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Who Came to Screening Examination	7766	100.0	531	2931	100.0	2363	10697	100.0	2894
1. Examined at Fixed Center in Kiev	1879	24,1	180	772	26,3	537	2651	24.8	717
2. Examined by Mobile Team	5887	75,9	351	2159	73,7	1826	8046	75.2	2177

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Selection I - the first 19,000 subjects who were selected from the dose files
Selection II - the remaining subjects in the dose files who were selected at the April 2000

Table 5. Status of Screening Activities for Subjects Who Were Screened in Screening Cycle 1 (Baseline Examination Only)

	Selection I (Records Selected =20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Who Came to Screening Examination	7766	**100,0**	531	2931	**100,0**	2363	10697	**100,0**	2894
1. Subject had Complete Screening Examination	7405	95,3	518	2841	96,9	2307	10246	95,7	2825
2. Subject Missed Only One Station	325	4,2	12	85	2,9	53	410	3,8	65
2.1 Subject Missed Blood Draw Only	28	0,4	0	6	0,2	1	34	0,3	1
2.2 Subject Missed Urine Collection Only	193	2,5	8	75	2,6	51	268	2,5	59
2.3 Subject Missed Dosimetry Interview Only	99	1,3	4	4	0,1	1	103	1,0	5
2.4 Subject Missed Only One Other Station	5	0,1	0	0	0,0	0	5	0,0	0
3 Subject Missed More than One Station	36	0,5	1	5	0,2	3	41	0,4	4
4. Subject participated in Exit Interview									

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Selection I - the first 19,000 subjects who were selected from the dose files
Selection II - the remaining subjects in the dose files who were selected at the April 2000

Table 6. Preliminary Results of Screening Examination for Subjects Who Were Screened in Screening Cycle 1 (Baseline Examination Only - from the preliminary endocrine summary completed on the day of the examination)

	Selection I (Records Selected =20,071)			Selection II (Records Selected = 14,021)			Total (# of Records = 34,092)		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Who Came to Screening Examination		**100.0**			**100.0**		10697	**100.0**	2894
1. No Thyroid Abnormalities (Follow in 2 Years)							9143	85,47	2388
2. Diffuse Goiter							1305	12,20	448
3. Nodular Goiter							205	1,91	52
3.1 At least 1 nodule > 10 mm							78	0,73	18
3.2 At least 1 nodule > 5 mm but none > 10 mm							127	1,18	34
4. Lymphadenopathy							-	-	-
5. Thyroiditis (Yes or Suspicion)							35	0,33	6
6. Thyroid Function Disturbance (Yes or Suspicion)							-	-	-
7. Parathyroid Disturbance (Yes or Suspicion)							-	-	-
8. Other Thyroid or Neck Pathology (Yes or Suspicion)							-	-	-
9. History of Thyroid Surgery Prior to Screening							2	0,02	-
9.1 Thyroid Cancer							2	0,02	-
9.2 Thyroid Adenoma							-	-	-
10. History of Other Thyroid Diagnosis Prior to Screening							1	0,01	-
11. Insufficient Information to Complete Preliminary Summary							6	0,06	-

Definitions:

Selection I - the first 20,000 subjects who were selected from the dose files

Selection II - the remaining subjects in the dose files who were selected at the April 2000

Cumulative Total - the cumulative total up to the ending date on the title page of this report

Total Subjects Screened - total number of subjects who came to the first screening examination

History of thyroid surgery prior to screening - subject had thyroid surgery before coming to the first screening examination

Table 7. Fine Needle Aspiration Results from Screening Cycle 1 (Baseline Examination Only)

	Cumulative Total		Change Since Previous Quarter
	#	%	#
1. Subject referred for FNA	205	100.0	52
1.1 Subject was screened at Kiev Fixed Center	36	17,56	6
1.2 Subject was screened by Mobile Team	169	82,44	46
1.1a. Subject has NOT undergone FNA	62*	30,24	11
1.1a.1 Subject was screened at Kiev Fixed Center	0	0	0
1.1a.2 Subject was screened by Mobile Team	62*	30,24	11
1.1b. Subject HAS undergone FNA	143	69,76	41
1.1b.1 FNA positive or suspicious for cancer	19	9,27	8
1.1b.2 FNA not suspicious for cancer	86	41,95	22
1.1b.3 Sample(s) Inadequate for Diagnosis	38	18,54	11

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report

*- In 15 patients out of 62 patients screened by Mobile Team and referred for FNA during ultrasound examination at the Institute there were no indications for FNA (no thyroid nodules).

Table 8. Laboratory Tests Processed

	Cumulative Total		Change Since Previous Quarter
	#	%	#
1. Blood Samples Received	10626	100.0	2885
1.1 Blood Samples Processed for TSH	6954	65,44	1250
1.1.1 Blood Samples Processed for Free T4	80	0,75	-
1.2 Blood Samples Processed for anti TPO	6759	63,61	1250
1.2.1 Blood Samples Processed for anti Tg	-	-	-
1.3 Blood Samples Processed for Tg	5715	53,78	1250
1.4 Blood Samples Processed for Ca^{++}	9011	84,80	2271
1.4.1 Blood Samples Processed for PTH	171	1,61	-
2. Urine Samples Received	10384	100.0	2830
2.1 Urine Samples Processed	4000	38,52	350

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Samples Received - the number of subjects for whom samples have been received by the laboratory
Samples Processed - the number of subjects for whom each specific laboratory analyses has been completed

Table 9. Final Endocrine Summary Results *

	Selection I			Selection II			Total		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Subjects Screened							10697		2894
Final Endocrine Summary Report Completed		100.0			100.0		5475	100.0	1391
1. No thyroid abnormality (Follow in 2 years)							4190	76.53	1008
2. Thyroid abnormality (ICD-9 Code)							1285	23.47	383
2.1 Malignant neoplasm of thyroid gland (193)	16 (s)		2 (s)	2 (s)		2 (s)	18 (s)	0.33	4 (s)
2.2 Benign neoplasm of thyroid gland (226)	5 (s)		-	1 (s)		1 (s)	6 (s)	0.11	1 (s)
2.3 Simple and unspecified goiter (240)							903	16.49	230
2.4 Nontoxic nodular goiter (241)							42	0.77	8
2.4.1 Uninodular (241.0)							33 (3s)	0.60	7 (1s)
2.4.2 Multinodular (241.1)							9 (2s)	0.17	1
2.5 Thyrotoxicosis with or without goiter (242)							2 (1s)	0.04	1
2.5.1 Toxic diffuse goiter (242.0)							2 (1s)	0.04	1
2.5.2 Toxic uninodular goiter (242.1)							-	-	-
2.5.3 Toxic multinodular goiter (242.2)							-	-	-
2.5.4 Thyrotoxicosis without goiter (242.4 - 242.9)							-	-	-
2.6 Hypothyroidism (244)							267	4.87	124
2.7 Other Thyroid Disorders (237.4,245, 246)							47	0.86	15
2.7.1 Autoimmune thyroiditis (245.2)							47	0.86	15
3. Hyperparathyroidism (252.0)							-	-	-
4. Hypercalcemia (275.42)							10	0.18	4
Subject Has Been Notified of Examination Results									

Definitions:

Selection I - the first 20,000 subjects who were selected from the dose files

Selection II - the remaining subjects in the dose files who were selected at the April 2000

Cumulative Total - the cumulative total up to the ending date on the title page of this report

Total Subjects Screened - total of the number of subjects who came to the first screening examination

Final Endocrine Summary/Pathology Completed -- the total number of subjects for whom the final endocrine summary report has been completed, and Hospitalization Form (if applicable) and Pathology Form (if applicable) have been completed

*** Results from final endocrine summary after all laboratory testing is complete and pathology reports obtained (for subjects with FNA/surgery) - Do not include thyroid abnormalities or malignancies diagnosed prior to the first screening**

** - (s) - cases after surgery

Table 9. Final Endocrine Summary Results *

	Selection I			Selection II			Total		
	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter	Cumulative Total		Change Since Previous Quarter
	#	%	#	#	%	#	#	%	#
Total Subjects Screened							10697		2894
Final Endocrine Summary Report Completed		100.0			100.0		5475	100.0	1391
1. No thyroid abnormality (Follow in 2 years)							4190	76.53	1008
2. Thyroid abnormality (ICD-9 Code)							1285	23.47	383
2.1 Malignant neoplasm of thyroid gland (193)	16		2	2		2	18	0.33	4
2.2 Benign neoplasm of thyroid gland (226)	5		-	1		1	6	0.11	1
2.3 Simple and unspecified goiter (240)							903	16.49	230
2.4 Nontoxic nodular goiter (241)							42	0.77	8
2.4.1 Uninodular (241.0)							33	0.60	7
2.4.2 Multinodular (241.1)							9	0.17	1
2.5 Thyrotoxicosis with or without goiter (242)							2	0.04	1
2.5.1 Toxic diffuse goiter (242.0)							2	0.04	1
2.5.2 Toxic uninodular goiter (242.1)							-	-	-
2.5.3 Toxic multinodular goiter (242.2)							-	-	-
2.5.4 Thyrotoxicosis without goiter (242.4 - 242.9)							-	-	-
2.6 Hypothyroidism (244)							267	4.87	124
2.7 Other Thyroid Disorders (237.4,245, 246)							47	0.86	15
2.7.1 Autoimmune thyroiditis (245.2)							47	0.86	15
3. Hyperparathyroidism (252.0)							-	-	-
4. Hypercalcemia (275.42)							10	0.18	4
Subject Has Been Notified of Examination Results									

Definitions:

Selection I - the first 20,000 subjects who were selected from the dose files

Selection II - the remaining subjects in the dose files who were selected at the April 2000

Cumulative Total - the cumulative total up to the ending date on the title page of this report

Total Subjects Screened - total of the number of subjects who came to the first screening examination

Final Endocrine Summary/Pathology Completed – the total number of subjects for whom the final endocrine summary report has been completed, and Hospitalization Form (if applicable) and Pathology Form (if applicable) have been completed

*** Results from final endocrine summary after all laboratory testing is complete and pathology reports obtained (for subjects with FNA/surgery) - Do not include thyroid abnormalities or malignancies diagnosed prior to the first screening**

Table 10. Data Management

	Cumulative Total		Change Since Previous Quarter
	#	%	#
Total Subjects Screened	10697	100.0	2894
Screening Forms Key Entered	4000	37,39	-
Dosimetry Questionnaires Key Entered	10575	98,86	2862
Urine Processing Forms Key Entered	2877	26,90	-
Blood Processing Forms Key Entered	4001	37,40	-
Final Endocrine Summary Forms Key Entered	3989	37,29	-
FNA Results Forms Key Entered	43	0,40	-
Pathology Forms Key Entered	-	-	-

Definitions:

Cumulative Total - the cumulative total up to the ending date on the title page of this report
Current Quarter - total number for this quarter beginning and ending with the dates on the front page of this report
Total Subjects Screened - total of the numbers reported for Fixed Center and Mobile Teams for Selections I and II from Table 3
Screening Forms Key Entered - total number of subjects for whom all forms filled out on the day of screening (from registration through preliminary endocrine summary) have been key-entered