

Supplementary materials.

Supplementary Table S1. Odds ratio of selected neoplasms among migrants, by region of origin.

Males					Females					Total population				
Cancer	Total	Sum	PMR	Interval	Cancer	Total	Sum	PMR	Interval	Cancer	Total	Sum	PMR	Interval
Head and neck	55	49,18618323	1,118200201	0,85-1,45	Head and neck	26	23,50145131	1,106314655	0,74-1,60	Head and neck	81	72,68763454	1,114357353	0,89-1,38
Colorectum	144	162,1714855	0,887948948	0,73-1,02	Colorectum	217	235,1204	0,9229314	0,81-1,05	Colorectum	361	397,2918855	0,908651833	0,82-1,01
Lymphoma	87	89,65916893	0,970341361	0,78-1,19	Lymphoma	95	111,2716242	0,853766634	0,69-1,04	Lymphoma	182	200,9307931	0,90578451	0,78-1,05
Leukemia	76	77,71586429	0,977921312	0,78-1,22	Leukemia	79	102,738387	0,768943355	0,61-0,95	Leukemia	155	180,4542513	0,858943466	0,73-1,01
Sarcoma	26	22,33324785	1,164183561	0,78-1,68	Sarcoma	24	23,20185591	1,034400011	0,68-1,52	Sarcoma	50	45,53510376	1,098053938	0,82-1,44
Stomach	46	45,80853641	1,004179649	0,74-1,33	Cervix	165	61,84508904	2,667956382	2,28-3,10	Cervix	165	61,84508904	2,667956382	2,28-3,10
Lung	194	174,4042878	1,112357973	0,96-1,28	Stomach	48	49,40054656	0,971649169	0,72-1,28	Stomach	94	95,20908297	0,98730076	0,80-1,20
Prostate	165	177,9897362	0,927019746	0,79-1,08	Lung	137	104,2700176	1,313896393	1,11-1,55	Lung	331	278,6743054	1,187766484	1,07-1,32
Bladder	173	163,0024609	1,06133367	0,91-1,23	Breast	790	847,7103435	0,931922096	0,87-1,00	Breast	790	847,7103435	0,931922096	0,87-1,00
Liver	44	44,3858448	0,99130703	0,73-1,32	Bladder	65	61,42549793	1,05819248	0,82-1,34	Prostate	165	177,9897362	0,927019746	0,79-1,08
					Liver	37	29,82446829	1,240592108	0,89-1,69	Bladder	238	224,4279588	1,060473932	0,93-1,20
										Liver	81	74,21031309	1,091492498	0,87-1,35
1: EU, W/N														
Europe														
Males					Females					Total population				
Cancer	Total	Sum	PMR	Interval	Cancer	Total	Sum	PMR	Interval	Cancer	Total	Sum	PMR	Interval
Head and neck	24	15,13572197	1,585652805	1,02-2,29	Head and neck	16	9,867722395	1,621448128	0,96-2,58	Head and neck	40	25,00344437	1,599779591	1,16-2,16
Colorectum	39	44,97069537	0,86723142	0,63-1,17	Colorectum	88	95,48645348	0,921596696	0,74-1,13	Colorectum	127	140,4571489	0,90419036	0,76-1,07
Lymphoma	29	31,29087908	0,926787641	0,63-1,31	Lymphoma	40	49,74481328	0,804103933	0,58-1,10	Lymphoma	69	81,03569236	0,851476652	0,67-1,07
Leukemia	14	23,76816833	0,589023092	0,34-0,96	Leukemia	32	43,805515	0,730501627	0,51-1,02	Leukemia	46	67,57368333	0,680738384	0,50-0,90
Sarcoma	10	7,721128621	1,295147444	0,66-2,31	Sarcoma	5	10,47446831	0,477351198	0,18-1,06	Sarcoma	15	18,19559693	0,824375263	0,48-1,33

Stomach	14	13,03871631	1,073725332	0,61-1,76
Lung	61	45,95347537	1,327429525	1,02-1,70
Prostate	48	42,23063058	1,136615754	0,85-1,49
Bladder	48	44,56092431	1,077176938	0,80-1,42
Liver	10	12,19647187	0,819909241	0,42-1,46

Cervix	69	28,14212781	2,45184019	1,92-3,09
Stomach	16	21,87425932	0,731453338	0,43-1,16
Lung	61	43,09396023	1,415511586	1,09-1,81
Breast	338	371,8830734	0,908887831	0,82-1,01
Bladder	40	25,14782838	1,590594599	1,15-2,15
Liver	16	11,68969456	1,368726952	0,81-2,18

Cervix	69	28,14212781	2,45184019	1,92-3,09
Stomach	30	34,91297563	0,859279378	0,59-1,21
Lung	122	89,0474356	1,370056298	1,14-1,63
Breast	338	371,8830734	0,908887831	0,82-1,01
Prostate	48	42,23063058	1,136615754	0,85-1,49
Bladder	88	69,7087527	1,262395275	1,01-1,54
Liver	26	23,88616643	1,088496142	0,72-1,57

2: Balkans, E
Europe
Males

Cancer	Total	Sum	PMR	Interval
Head and neck	14	6,101710413	2,294438617	1,31-3,76
Colorectum	15	15,84232624	0,946830647	0,55-1,53
Lymphoma	8	11,11022022	0,720057735	0,33-1,37
Leukemia	10	8,650346084	1,156023112	0,59-2,06
Sarcoma	5	2,567230426	1,94762416	0,71-4,31
Stomach	8	4,581265146	1,746242521	0,81-3,32
Lung	19	16,58451771	1,145646821	0,71-1,76
Prostate	5	14,05598444	0,355720371	0,13-0,79
Bladder	16	15,93038773	1,004369779	0,59-1,60
Liver	3	4,601574281	0,651950793	0,17-1,78

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	1	4,817153087	0,207591493	0,01-1,02
Colorectum	38	41,72590834	0,910705159	0,65-1,24
Lymphoma	19	24,68003489	0,769853045	0,48-1,18
Leukemia	11	19,39529825	0,567147762	0,30-0,99
Sarcoma	7	5,058936638	1,383689993	0,61-2,74
Cervix	75	14,3258459	5,235292946	4,15-6,52
Stomach	10	9,522280302	1,050168624	0,53-1,87
Lung	31	20,67209975	1,499605767	1,04-2,10
Breast	153	185,8553885	0,823220684	0,70-0,96
Bladder	12	11,37786674	1,054679253	0,57-1,79
Liver	4	4,193927317	0,953759972	0,30-2,30

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	15	10,9188635	1,373769349	0,80-2,22
Colorectum	53	57,56823458	0,92064661	0,70-1,20
Lymphoma	27	35,79025511	0,754395293	0,51-1,08
Leukemia	21	28,04564433	0,748779374	0,48-1,13
Sarcoma	12	7,626167064	1,573529651	0,85-2,67
Cervix	75	14,3258459	5,235292946	4,15-6,53
Stomach	18	14,10354545	1,276274825	1,78-1,98
Lung	50	37,25661746	1,342043465	1,01-1,76
Breast	153	185,8553885	0,823220684	0,70-0,96
Prostate	5	14,05598444	0,355720371	0,13-0,79
Bladder	28	27,30825447	1,025331005	0,69-1,46
Liver	7	8,795501598	0,795861376	0,34-1,57

3: N Africa
Males

Cancer	Total	Sum	PMR	Interval
Head and neck	8	13,56498658	0,589753624	0,27-1,12
Colorectum	56	57,17744353	0,979407202	0,75-1,26
Lymphoma	20	17,18286418	1,163950305	0,73-1,77

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	4	3,176341232	1,259310542	0,40-3,03
Colorectum	40	39,86032755	1,003504047	0,73-1,35
Lymphoma	15	12,3365479	1,215899303	0,71-1,96

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	12	16,74132781	0,716789023	0,38-1,21
Colorectum	96	97,03777108	0,989305493	0,80-1,20
Lymphoma	35	29,51941209	1,18566047	0,83-1,63

Leukemia	16	20,36748897	0,785565664	0,47-1,25
Sarcoma	4	3,99115466	1,002216236	0,32-2,42
Stomach	14	15,50246411	0,903082239	0,51-1,48
Lung	72	66,98519277	1,074864414	0,85-1,35
Prostate	71	79,74873435	0,890296261	0,70-1,12
Bladder	76	58,44186943	1,300437524	1,03-1,62
Liver	14	15,55979903	0,899754552	0,51-1,47

Leukemia	11	15,12310696	0,727363764	0,38-1,27
Sarcoma	5	2,461425955	2,031342844	0,74-4,51
Cervix	6	5,47746609	1,095397014	0,44-2,28
Stomach	11	8,601474074	1,278850567	0,67-2,22
Lung	14	15,37922864	0,910318738	0,52-1,49
Breast	87	91,76830702	0,948039719	0,76-1,16
Bladder	7	9,805385505	0,7138934	0,31-1,41
Liver	9	6,428953171	1,39991687	0,68-2,57

Leukemia	27	35,49059593	0,760764909	0,51-1,09
Sarcoma	9	6,452580615	1,394790788	0,68-2,56
Cervix	6	5,47746609	1,095397014	0,44-2,28
Stomach	25	24,10393819	1,037174913	0,68-1,50
Lung	86	82,36442141	1,044140158	0,84-1,28
Breast	87	91,76830702	0,948039719	0,76-1,16
Prostate	71	79,74873435	0,890296261	0,70-1,12
Bladder	83	68,24725493	1,216166131	0,95-1,50
Liver	23	21,9887522	1,045989322	0,67-1,54

4: Sub-Saharan

Africa

Males

Cancer	Total	Sum	PMR	Interval
Head and neck	1	3,461293003	0,288909375	0,01-1,42
Colorectum	3	10,50696258	0,285524953	0,07-0,77
Lymphoma	10	9,826771394	1,017628232	0,51-1,81
Leukemia	10	7,116181784	1,405247969	0,70-2,50
Sarcoma	3	2,760605181	1,086718239	0,27-2,95
Stomach	3	2,931510588	1,023363181	0,26-2,78
Lung	11	11,1012098	0,990882994	0,52-1,73
Prostate	11	11,48130465	0,958079272	0,50-1,66
Bladder	7	10,61336637	0,659545686	0,29-1,34
Liver	8	2,911504508	2,747720286	1,27-5,22

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	0	1,096242728	0	0,00-2,74
Colorectum	4	11,63694736	0,343732757	0,11-0,82
Lymphoma	5	4,852965723	1,030297819	0,37-2,28
Leukemia	4	4,571460157	0,874993954	0,27-2,11
Sarcoma	1	0,962466966	1,038996698	0,05-5,13
Cervix	2	2,448204882	0,816925093	0,13-2,70
Stomach	2	0,332235645	6,01982368	1,01-20,02
Lung	8	5,017138812	1,594534315	0,74-3,03
Breast	45	36,33197181	1,238578524	0,91-1,64
Bladder	2	3,005293211	0,665492469	0,11-2,19
Liver	0	1,606729382	0	0,00-1,87

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	1	4,557535731	0,219416821	0,01-1,08
Colorectum	7	22,14390994	0,316114002	0,13-0,62
Lymphoma	15	14,67973712	1,021816663	0,59-1,64
Leukemia	14	11,68764194	1,197846415	0,68-1,96
Sarcoma	4	3,723072147	1,074381543	0,34-2,59
Cervix	2	2,448204882	0,816925093	0,13-2,70
Stomach	5	3,263746233	1,531981852	0,56-3,4
Lung	19	16,11834861	1,178780808	0,73-1,80
Breast	45	36,33197181	1,238578524	0,91-1,64
Prostate	11	11,48130465	0,958079272	0,50-1,66
Bladder	9	13,61865958	0,66085799	0,32-1,21
Liver	8	4,51823389	1,770603336	0,82-3,36

5: W Asia

Males

Cancer	Total	Sum	PMR	Interval
Head and neck	0	0,277639035	0	0,00-11,09

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	0	0,081299107	0	0,00-37,44

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	0	0,358938142	0	0,00-8,55

Colorectum	1	1,368275913	0,730846747	0,03-3,62
Lymphoma	0	0,391307027	0	0,00-7,68
Leukemia	2	1,244136225	1,607541007	0,27-5,32
Sarcoma	0	0,2809417	0	0,00-10,69
Stomach	0	0,366110131	0	0,00-8,32
Lung	0	1,597317481	0	0,00-1,88
Prostate	3	1,845404079	1,625660219	0,41-4,43
Bladder	3	1,406064716	2,133614453	0,54-5,83
Liver	0	0,426944105	0	0,00-7,13

Colorectum	1	1,077070028	0,928444738	0,04-4,60
Lymphoma	1	0,275375674	3,631402827	0,18-18,27
Leukemia	0	0,373035601	0	0,00-8,09
Sarcoma	0	0,05783321	0	0,00-59,91
Cervix	0	0,132844153	0	0,00-23,04
Stomach	0	0,24915299	0	0,00-12,48
Lung	0	0,357303294	0	0,00-8,55
Breast	1	2,181441	0,458412581	0,02-2,26
Bladder	1	0,255279168	3,917280075	0,20-19,73
Liver	0	0,183117355	0	0,00-16,64

Colorectum	2	2,44534594	0,817880189	0,13-2,70
Lymphoma	1	0,666682701	1,499963923	0,07-7,47
Leukemia	2	1,617171826	1,236726963	0,20-4,10
Sarcoma	0	0,33877491	0	0,00-9,07
Cervix	0	0,132844153	0	0,00-23,04
Stomach	0	0,61526312	0	0,00-4,49
Lung	0	1,954620775	0	0,00-1,53
Breast	1	2,181441	0,458412581	0,02-2,26
Prostate	3	1,845404079	1,625660219	0,41-4,43
Bladder	4	1,661343885	2,407689363	0,76-5,81
Liver	0	0,610061459	0	0,00-4,91

6: Other Asia excl. Japan

Males

Cancer	Total	Sum	PMR	Interval
Head and neck	4	3,200070704	1,249972382	0,39-3,01
Colorectum	8	8,040381494	0,994977664	0,46-1,88
Lymphoma	2	5,86501063	0,34100535	0,05-1,12
Leukemia	9	4,150605906	2,168358115	1,05-3,98
Sarcoma	2	1,376639571	1,452813098	0,24-4,82
Stomach	3	2,316398909	1,295113716	0,33-3,53
Lung	11	8,379048929	1,312798158	0,69-2,28
Prostate	4	7,250588799	0,551679334	0,17-1,33
Bladder	2	8,011953801	0,249627001	0,04-0,82
Liver	3	2,274502645	1,318969669	0,33-3,59

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	1	0,897308078	1,114444441	0,05-5,54
Colorectum	11	7,804464544	1,409449673	0,74-2,45
Lymphoma	1	5,120319079	0,195300329	0,01-0,96
Leukemia	9	4,835039151	1,861412022	0,90-3,41
Sarcoma	2	1,144964892	1,746778451	0,29-5,79
Cervix	4	2,881128173	1,388345037	0,44-3,35
Stomach	3	0,145138369	20,66993045	5,45-58,32
Lung	3	3,906349577	0,767980423	0,19-2,09
Breast	34	37,71242185	0,901559707	0,63-1,24
Bladder	0	2,103930352	0	0,00-1,42
Liver	2	0,811858546	2,463483337	0,41-8,15

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	5	4,097378782	1,220292354	0,44-2,71
Colorectum	19	15,84484604	1,199128092	0,74-1,83
Lymphoma	3	10,98532971	0,273091485	0,06-0,74
Leukemia	18	8,985645057	2,003195083	1,22-3,10
Sarcoma	4	2,521604463	1,586291609	0,50-3,82
Cervix	4	2,881128173	1,388345037	0,44-3,35
Stomach	6	2,461537279	2,437501171	0,98-5,07
Lung	14	12,28539851	1,139564174	0,64-1,86
Breast	34	37,71242185	0,901559707	0,63-1,24
Prostate	4	7,250588799	0,551679334	0,17-1,33
Bladder	2	10,11588415	0,197708868	0,03-0,65
Liver	5	3,086361191	1,620030739	0,59-3,59

**7: N America, Oceania,
Japan**

Males

Females

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	2	2,785480391	0,718009004	0,12-2,37
Colorectum	12	11,32186216	1,059896317	0,57-1,80
Lymphoma	7	5,086830116	1,376102571	0,60-2,72
Leukemia	6	5,778778853	1,038281643	0,42-2,16
Sarcoma	0	1,50679939	0	0,00-1,99
Stomach	2	3,374738889	0,592638443	0,09-1,96
Lung	8	10,664202	0,750173337	0,34-1,42
Prostate	11	10,18002072	1,080547899	0,56-1,87
Bladder	13	11,19600148	1,161128821	0,64-1,93
Liver	1	2,859016123	0,349770675	0,01-1,73

Cancer	Total	Sum	PMR	Interval
Head and neck	4	1,416737154	2,823388931	0,90-6,84
Colorectum	15	15,86579192	0,945430274	0,54-1,52
Lymphoma	7	5,331856493	1,312863542	0,57-2,59
Leukemia	7	6,042885246	1,158387048	0,50-2,29
Sarcoma	0	1,202354989	0	0,00-2,49
Cervix	2	3,295939611	0,606807234	0,10-2,01
Stomach	2	3,739251687	0,534866376	0,08-1,77
Lung	7	6,317601477	1,108015443	0,48-2,19
Breast	46	48,31340571	0,952116691	0,70-1,25
Bladder	0	4,071658387	0	0,00-0,73
Liver	4	2,17688261	1,837489988	0,58-4,44

Cancer	Total	Sum	PMR		
Head and neck	6	4,202217545	1,427817559	0,57-2,97	
Colorectum	27	27,18765408	0,99309782	0,66-1,42	
Lymphoma	14	10,41868661	1,343739429	0,76-2,20	
Leukemia	13	11,8216641	1,099675976	0,61-1,83	
Sarcoma	0	2,709154379	0	0,00-1,10	
Cervix	2	3,295939611	0,606807234	0,10-2,01	
Stomach	4	7,113990576	0,562272322	0,17-1,35	
Lung	15	16,98180347	0,88329841	0,51-1,42	
Breast	46	48,31340571	0,952116691	0,70-1,25	
Prostate	11	10,18002072	1,080547899	0,56-1,87	
Bladder	13	15,26765986	0,85147299	0,47-1,42	
Liver	5	5,035898733	0,992871435	0,36-2,20	

8: Latin America

Males

Cancer	Total	Sum	PMR	Interval
Head and neck	2	4,659281135	0,429250767	0,07-1,42
Colorectum	10	12,94353826	0,772586274	0,39-1,37
Lymphoma	11	8,905286286	1,235221378	0,64-2,14
Leukemia	9	6,64015814	1,355389406	0,66-2,48
Sarcoma	2	2,128748301	0,939519247	0,15-3,11
Stomach	2	3,697332323	0,540930548	0,09-1,79
Lung	12	13,13932374	0,913289012	0,49-1,55
Prostate	12	11,19706853	1,071709078	0,58-1,82
Bladder	8	12,84189303	0,622961115	0,28-1,18
Liver	5	3,556032235	1,406061495	0,51-3,12

Females

Cancer	Total	Sum	PMR	Interval
Head and neck	0	2,148647525	0	0,00-1,39
Colorectum	20	21,66343677	0,923214549	0,57-1,40
Lymphoma	7	8,929711108	0,78389994	0,34-1,55
Leukemia	5	8,592046645	0,581933526	0,21-1,29
Sarcoma	4	1,839404945	2,174616314	0,69-5,27
Cervix	7	5,14153242	1,361461803	0,59-2,69
Stomach	4	4,936754169	0,810248974	0,25-1,95
Lung	13	9,526335844	1,364638011	0,75-2,27
Breast	86	73,66433423	1,167457779	0,93-1,43
Bladder	3	5,65825618	0,530198687	0,13-1,44
Liver	2	2,733305356	0,731714807	0,12-2,42

Total population

Cancer	Total	Sum	PMR	Interval
Head and neck	2	6,80792866	0,293775111	0,04-0,97
Colorectum	30	34,60697503	0,866877269	0,59-1,22
Lymphoma	18	17,83499739	1,009251619	0,61-1,56
Leukemia	14	15,23220478	0,91910529	0,52-1,50
Sarcoma	6	3,968153245	1,512038379	0,61-3,15
Cervix	7	5,14153242	1,361461803	0,59-2,69
Stomach	6	8,634086492	0,694920071	0,28-1,44
Lung	25	22,66565958	1,102990182	0,72-1,60
Breast	86	73,66433423	1,167457779	0,93-1,43
Prostate	12	11,19706853	1,071709078	0,58-1,82
Bladder	11	18,50014921	0,594589799	0,31-1,03
Liver	7	6,28937591	1,112994795	0,48-2,20

