

Supplementary Table 4. Age-dependent incidence rates for cancer types in the entire FCCTX cohort compared to the Danish Lynch syndrome cohort.

Cancer	Age groups	FCCTX per 100000 years			Lynch syndrome per 100000 years			FCCTX vs. Lynch syndrome			
		IR	95% CI lower	95% CI Upper	IR	95% CI lower	95% CI Upper	IRR	95% CI lower	95% CI Upper	P values
Breast cancer	0-29	0.00	0.00	19.08	9.11	0.23	50.77	0.00	0.00	90.25	0.3621
	30-49	153.79	102.99	220.86	150.70	84.34	248.55	1.02	0.45	2.48	1.0000
	50-69	435.03	326.81	567.62	530.28	349.46	771.53	0.82	0.45	1.55	0.3938
	70+	445.01	271.83	687.29	383.20	104.41	981.13	1.16	0.31	7.16	1.0000
Prostate cancer	0-29	0.00	0.00	18.99	0.00	0.00	37.17	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	19.26	0.00	0.00	42.29	NA	0.00	Inf	1.0000
	50-69	210.97	137.81	309.11	391.12	227.84	626.22	0.54	0.24	1.27	0.0549
	70+	742.25	480.35	1095.71	983.36	395.36	2026.09	0.75	0.26	2.77	0.4860
Urothelial cancer	0-29	2.58	0.07	14.35	9.57	1.16	34.57	0.27	0.00	11.07	0.2817
	30-49	2.62	0.07	14.59	42.86	18.51	84.46	0.06	0.00	0.65	0.0009*
	50-69	55.18	30.17	92.59	497.68	365.68	661.81	0.11	0.05	0.24	<0.0001*
	70+	355.87	238.33	511.09	1130.28	669.87	1786.33	0.31	0.14	0.72	0.0003*
Lung cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	13.09	4.25	30.55	37.34	15.01	76.94	0.35	0.06	1.77	0.0707
	50-69	74.75	45.00	116.73	143.60	78.51	240.94	0.52	0.20	1.38	0.0779
	70+	193.14	110.40	313.65	109.68	13.28	396.21	1.76	0.31	33.03	0.7577
Malignant melanoma	0-29	7.73	1.59	22.59	14.36	2.96	41.97	0.54	0.04	6.97	0.4283
	30-49	23.59	10.79	44.79	26.80	8.70	62.53	0.88	0.20	4.87	0.7827
	50-69	27.59	11.09	56.84	20.59	2.49	74.38	1.34	0.18	27.76	1.0000
	70+	60.78	19.73	141.83	165.58	34.15	483.90	0.37	0.05	4.07	0.1618
Non-melanoma skin tumours	0-29	2.58	0.07	14.36	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	5.24	0.63	18.92	48.12	22.01	91.35	0.11	0.01	0.73	0.0012*
	50-69	39.39	18.89	72.44	228.51	143.20	345.96	0.17	0.06	0.46	<0.0001*
	70+	109.83	50.22	208.49	462.53	199.69	911.38	0.24	0.06	0.94	0.0046*
Brain tumours	0-29	7.73	1.59	22.60	9.57	1.16	34.57	0.81	0.05	20.46	1.0000
	30-49	13.10	4.25	30.57	53.46	25.63	98.31	0.25	0.05	1.04	0.0102*
	50-69	31.47	13.59	62.01	92.53	42.31	175.66	0.34	0.09	1.31	0.0283
	70+	72.50	26.61	157.80	0.00	0.00	204.83	NA	0.16	Inf	0.5993
Pancreatic cancer	0-29	0.00	0.00	9.51	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	5.34	0.14	29.73	0.00	0.00	78.01	0.3291
	50-69	27.53	11.07	56.72	71.76	28.85	147.86	0.38	0.08	1.76	0.0746
	70+	169.16	92.48	283.82	274.66	89.18	640.95	0.66	0.18	3.35	0.3872
Gastric cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	15.71	5.76	34.19	21.36	5.82	54.68	0.74	0.12	5.51	0.7383
	50-69	15.73	4.29	40.27	123.79	63.97	216.24	0.13	0.02	0.55	0.0001*
	70+	120.69	57.88	221.96	275.53	89.47	643.00	0.44	0.10	2.38	0.1672

Ovarian cancer	0-29	10.31	1.25	37.26	0.00	0.00	33.61	NA	0.05	Inf	0.5384
	30-49	10.51	1.27	37.95	252.67	163.51	372.99	0.04	0.00	0.22	<0.0001*
	50-69	69.27	31.67	131.49	96.36	31.29	224.86	0.72	0.16	3.98	0.5594
	70+	84.24	22.95	215.70	0.00	0.00	343.62	NA	0.09	Inf	1.0000
Non-Hodgkin's lymphoma	0-29	0.00	0.00	9.50	4.78	0.12	26.66	0.00	0.00	85.61	0.3500
	30-49	7.86	1.62	22.96	5.33	0.14	29.72	1.47	0.07	313.00	1.0000
	50-69	31.52	13.61	62.10	0.00	0.00	37.78	NA	0.43	Inf	0.1164
	70+	48.36	13.18	123.81	0.00	0.00	202.26	NA	0.09	Inf	1.0000
Head and neck tumours	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	5.24	0.63	18.91	0.00	0.00	19.68	NA	0.04	Inf	1.0000
	50-69	35.43	16.20	67.25	10.24	0.26	57.07	3.46	0.34	612.79	0.3020
	70+	48.40	13.19	123.92	55.34	1.40	308.34	0.87	0.05	174.25	1.0000
Endometrial cancer	0-29	0.00	0.00	19.02	0.00	0.00	33.61	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	19.37	688.64	535.80	871.52	0.00	0.00	0.04	<0.0001*
	50-69	53.71	21.59	110.65	1686.10	1355.83	2072.51	0.03	0.01	0.08	<0.0001*
	70+	83.83	22.84	214.63	367.68	100.18	941.39	0.23	0.03	1.92	0.0441
Kidney cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	2.62	0.07	14.59	5.33	0.14	29.72	0.49	0.00	156.30	0.5500
	50-69	23.59	8.66	51.35	102.83	49.31	189.11	0.23	0.05	0.91	0.0038*
	70+	36.18	7.46	105.75	110.52	13.38	399.25	0.33	0.02	8.29	0.2207
Cervical cancer	0-29	0.00	0.00	19.02	9.11	0.23	50.76	0.00	0.00	89.99	0.3614
	30-49	26.34	8.55	61.47	70.21	28.23	144.66	0.38	0.06	1.90	0.1242
	50-69	23.15	4.77	67.64	38.07	4.61	137.51	0.61	0.04	15.40	0.6303
	70+	21.01	0.53	117.05	0.00	0.00	342.71	NA	0.00	Inf	1.0000
Leukemia	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	0.00	0.00	19.68	NA	0.00	Inf	1.0000
	50-69	11.79	2.43	34.45	10.24	0.26	57.08	1.15	0.05	244.51	1.0000
	70+	48.32	13.16	123.71	54.91	1.39	305.96	0.88	0.05	175.31	1.0000
Esophageal cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	5.33	0.14	29.72	0.00	0.00	78.04	0.3292
	50-69	15.72	4.28	40.25	30.74	6.34	89.85	0.51	0.05	6.02	0.4049
	70+	24.17	2.93	87.33	0.00	0.00	202.26	NA	0.02	Inf	1.0000
Connecting tissue tumours	0-29	0.00	0.00	9.50	4.79	0.12	26.67	0.00	0.00	85.58	0.3499
	30-49	5.24	0.63	18.92	5.34	0.14	29.74	0.98	0.02	234.47	1.0000
	50-69	11.80	2.43	34.47	30.76	6.34	89.89	0.38	0.03	4.97	0.3573
	70+	12.06	0.31	67.18	55.57	1.41	309.63	0.22	0.00	69.11	0.3248
Testis cancer	0-29	5.15	0.13	28.69	30.28	6.24	88.48	0.17	0.00	3.75	0.1152
	30-49	26.21	8.51	61.17	34.59	7.13	101.09	0.76	0.10	8.39	0.7113
	50-69	0.00	0.00	29.77	0.00	0.00	84.04	NA	0.00	Inf	1.0000
	70+	0.00	0.00	104.73	0.00	0.00	501.29	NA	0.00	Inf	1.0000

Biliary tract cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	5.24	0.63	18.91	5.33	0.14	29.72	0.98	0.02	234.61	1.0000
	50-69	7.86	0.95	28.39	10.24	0.26	57.07	0.77	0.02	183.36	1.0000
	70+	12.06	0.31	67.18	54.83	1.39	305.50	0.22	0.00	70.03	0.3280
Eye tumours	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	10.68	1.29	38.57	0.00	0.00	5.71	0.1082
	50-69	19.66	6.38	45.88	10.25	0.26	57.11	1.92	0.14	366.93	1.0000
	70+	0.00	0.00	44.53	0.00	0.00	202.26	NA	0.00	Inf	1.0000
Multiple myeloma	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	5.33	0.14	29.72	0.00	0.00	78.02	0.3292
	50-69	3.93	0.10	21.89	10.25	0.26	57.11	0.38	0.00	122.07	0.4774
	70+	48.28	13.16	123.62	109.67	13.28	396.18	0.44	0.04	10.26	0.2966
Laryngeal cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	0.00	0.00	19.68	NA	0.00	Inf	1.0000
	50-69	15.73	4.28	40.27	30.79	6.35	89.99	0.51	0.05	6.02	0.4047
	70+	12.08	0.31	67.32	0.00	0.00	202.67	NA	0.00	Inf	1.0000
Hepatocellular cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	5.33	0.14	29.72	0.00	0.00	78.02	0.3292
	50-69	15.72	4.28	40.24	30.76	6.34	89.89	0.51	0.05	6.02	0.4048
	70+	0.00	0.00	44.48	109.67	13.28	396.16	0.00	0.00	2.56	0.0325
Small bowel cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	2.62	0.07	14.59	42.73	18.45	84.20	0.06	0.00	0.66	0.0009*
	50-69	3.93	0.10	21.90	93.04	42.54	176.62	0.04	0.00	0.43	0.0001*
	70+	12.06	0.31	67.20	110.95	13.44	400.80	0.11	0.00	4.47	0.0843
Vaginal and vulva cancer	0-29	0.00	0.00	19.02	0.00	0.00	33.61	NA	0.00	Inf	1.0000
	30-49	5.25	0.13	29.25	0.00	0.00	36.79	NA	0.00	Inf	1.0000
	50-69	7.67	0.19	42.76	37.44	4.53	135.25	0.20	0.00	8.43	0.2045
	70+	20.96	0.53	116.79	0.00	0.00	339.29	NA	0.00	Inf	1.0000
Thyroid cancer	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	5.33	0.14	29.72	0.00	0.00	78.03	0.3292
	50-69	3.93	0.10	21.90	10.25	0.26	57.12	0.38	0.00	122.09	0.4774
	70+	12.07	0.31	67.24	54.84	1.39	305.55	0.22	0.00	70.09	0.3282
Pleural mesothelioma	0-29	0.00	0.00	9.50	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	0.00	0.00	19.68	NA	0.00	Inf	1.0000
	50-69	3.93	0.10	21.89	0.00	0.00	37.78	NA	0.00	Inf	1.0000
	70+	0.00	0.00	44.48	54.84	1.39	305.55	0.00	0.00	34.96	0.1802
Bone cancer/osteosarcoma	0-29	2.58	0.07	14.35	4.79	0.12	26.68	0.54	0.00	171.33	1.0000
	30-49	0.00	0.00	9.66	0.00	0.00	19.68	NA	0.00	Inf	1.0000
	50-69	0.00	0.00	14.49	0.00	0.00	37.78	NA	0.00	Inf	1.0000
	70+	0.00	0.00	44.48	0.00	0.00	202.26	NA	0.00	Inf	1.0000

Hodgkin's lymphoma	0-29	2.58	0.07	14.36	0.00	0.00	17.65	NA	0.00	Inf	1.0000
	30-49	0.00	0.00	9.66	0.00	0.00	19.68	NA	0.00	Inf	1.0000
	50-69	0.00	0.00	14.49	10.24	0.26	57.07	0.00	0.00	60.99	0.2772
	70+	0.00	0.00	44.48	0.00	0.00	202.26	NA	0.00	Inf	1.0000
Nose and sinuses	0-29	0.00	0.00	55.74	0.00	0.00		NA	0.00	Inf	1.0000
	30-49	0.00	0.00	34.66	0.00	0.00		NA	0.00	Inf	1.0000
	50-69	0.00	0.00	43.13	0.00	0.00		NA	0.00	Inf	1.0000
	70+	35.17	0.89	195.98	0.00	0.00		NA	0.00	Inf	1.0000

*Significant p values following Bonferoni corrections