Evidence tables from the systematic literature search for premature ovarian insufficiency surveillance in female CAYA cancer survivors.

Who needs surveillance?				
Chiarelli et al. Early me	enopause and Infertility in F	emales after Treatment for Childho	od Cancer diagnosed in 1964-1988 in Ontario, C	Canada. Am J Epidemiol
Study design Treatment era Years of follow-up	Participants	Treatment	Main outcomes	Additional remarks
Retrospective cohort study 1964-1988 Follow-up >5 yrs after diagnosis: 5-10 yrs: 25.2% 11-15 yrs: 24.9% 16-20 yrs: 26.3% 21-30 yrs: 23.6%	719 from total cohort of 1,581 female childhood cancers survivors. Median age: 28 yrs (range 18-49). Excluded: sterilising surgery	Alkylating agents: 150 (21%). Antimetabolites: not reported. Platinum compounds: not reported. Radiotherapy involving ovaries: 154 (21%) Alkylating agents + radiotherapy involving ovaries: 71 (10%). RT: < 20 Gy, 20-35 Gy, > 35 Gy abdominal pelvic. CT: AA (number of Alkylating agents, number of months). AA<: 1-13 low, 14-21 medium, >22 high risk.	Outcome definition:Menopausal status based on Telephonequestionnaire: "Have you stopped havingperiods?", "Have you ever used hormonalsupplement pills?"63 women (8.8%) menopausal aftertreatment (29 (46%) surgical menopause).Risk of menopause in multivariate analyses:Alkylating agents and abdominal-pelvic RTvs. non-sterilizing surgery:RR 2.58 (95% CI 1.14-5.80)Alkylating agents vs. non-sterilizing surgery:RR 0.77 (95% CI 0.30-1.97)Other treatments vs. non-sterilizing surgery:RR 0.75 (95% CI 0.34-1.65)Abdominal-pelvic RT vs. non-sterilizingsurgery:<2000 cGy:	Subset not representative for cohort. Based on telephone questionnaire No controls Unclear if patients treated with BMT or TBI were included

	14-21: RR 1.90 (95% CI 0.52-6.92)	
	≥21: RR 3.08 (95% CI 1.15-8.21)	

Abbreviations: Yrs, years; CT, chemotherapy; AA, alkylating agents; RT, radiotherapy; BMT, bone marrow transplantation; TBI, total body irradiation.

Who needs surveillance?					
Byrne et al. Early mend	Byrne et al. Early menopause in long-term survivors of cancer during adolescence. Am J Obstet Gynecol 1992;166:788-793				
Study design Treatment era Years of follow-up	Participants	Treatment	Main outcomes	Additional remarks	
Multi-center cohort	1048 female CCS ≥21	Chemotherapy only:	Outcome definitions:	91% of both groups agreed to be	
study	years of age at study	68 (6.5%)	- Amenorrhea: woman's report of whether	interviewed. At follow-up, 10% of	
	entry; 954 were		she was still having menstrual periods	the survivors and 1% of the	
1945-1974	menstruating before	Alkylating agents and		controls had died.	
	study entry and 94	radiotherapy above diaphragm:	<u>Amenorrhea:</u>		
Follow-up:	became menopausal	38 (3.6%)	- 123/954 (12.9%) menopausal after study	90% of eligible survivors	
>19 yr after cancer	before they were eligible		entry	completed follow-up assessment.	
diagnosis	for the cohort	Alkylating agents and	- 831/954 (87.1%) still menstruating		
		radiotherapy below diaphragm:		Control group not representative	
	<u>Diagnoses:</u>	79 (7.5%)	Age-specific relative risks for amenorrhea	for general population	
	Female genital cancer		survivors vs. controls:		
	(n=90), Hodgkin's	Radiotherapy only:	- All survivors aged 21-25: RR 4.32, 95% Cl		
	disease (n=206), non-	261 (24.9%)	2.28-8.17		
	Hodgkin's lymphoma		- All survivors aged 26-30: RR 1.61, p>0.05		
	(n=31), soft tissue	Surgery only:	- All survivors aged 31-40: RR 0.78, p>0.05		
	sarcoma (n=115),	493 (47.0%)	- All survivors aged 41+: RR 0.98, p>0.05		
	leukaemia (n=15), brain		 Alkylating agents alone aged 21-25: RR 		
	or CNS tumour (n=133),	Sterilizing surgery and	9.17, 95% Cl 2.67-31.49		
	bone cancer (n=65),	chemotherapy and	 Radiotherapy below diaphragm and 		
	other (n=393)	<u>radiotherapy:</u> 25 (2.4%)	alkylating agents aged 21-25: RR 27.39, 95% Cl 12.42-60.35		
	Age at diagnosis:		- Radiotherapy below diaphragm and		
	Mean 13.6 yr	<u>Other treatments:</u> 84 (8.0%)	alkylating agents aged 26-30: RR 4.64, p<0.01		
	Age at follow-up:		- Radiotherapy alone aged 21-25: RR 3.66,		
	Mean 32.3 yr		95% CI 1.34-9.99		
			- Radiotherapy alone aged 26-30: RR 2.41,		
	<u>Controls:</u>		p<0.05		
	1596 menstruating		- Radiotherapy alone aged 31-40: RR 0.90,		
	siblings at age 21 yr;		p>0.05		
	Mean age at follow-up		- Radiotherapy alone aged 41+: RR 1.22,		
	33.0 yr		p>0.05		

	- Aged 0-12 at diagnosis aged 21-30 at
	follow-up: RR 0.62, p>0.05
	- Aged 13-19 at diagnosis aged 21-30 at
	follow-up: RR 2.32, 95% CI 1.63-3.291

Abbreviations: yr, years; CCS, childhood cancer survivors; CNS, central nervous system.

Who needs surveillance?					
Gracia et al. Impact of	<i>Gracia et al.</i> Impact of cancer therapies on ovarian reserve. Fertil Steril 2012;97:134-140.				
Study design Treatment era Years of follow-up	Participants	Treatment	Main outcomes	Additional remarks	
Single-center cohort	71 postmenarchal	Alkylating agents:	Outcome definitions:	Unclear what proportion of	
study	female cancer survivors 15-39 years of age	63 (88.7%)	 Amenorrhea: woman's report of whether she was still having menstrual periods 	eligible patients were included in the study	
Treatment era not		Pelvic radiation (including TBI):			
mentioned	<u>Diagnoses:</u>	13 (18.3%)	Menstrual characteristics:		
	Hodgkin lymphoma		 Age at menarche: 12.5 yr survivors vs, 		
<u>Follow-up:</u>	(n=15), non-Hodgkin	<u>BMT:</u>	12.4 yr controls (p=0.67)		
>1 yr after cancer	lymphoma (n=9),	16 (22.5%) of which 10 (14.1%)	- Regular cycles: 49 (69.0%) survivors vs. 65		
treatment	leukaemia (n=23),	ТВІ	(91.5%) controls		
	sarcoma (n=10), Wilms'				
	tumour (n=4), breast		Geometric mean (95% CI) reproductive		
	cancer (n=3), other (n=7)		hormone measures survivors vs. controls		
			adjusted for age, race and BMI:		
	Age at diagnosis:		- FSH (MIU/ML): 11.12 (9.47-13.6) VS. 7.25		
	Wedian 11 (0.3-29) yr		(6.0-8.8), p=0.001		
	Ago at follow up		$-E_2$ (pg/IIIL): 24.2 (20.9-28.1) vs. 29.4 (24.7-		
	Age at tonow-up: Moon 25 $7(24, 2, 27, 2)$ yr		34.9 , $\mu = 0.084$		
	Wear 23.7 (24.2-27.2) yr		- Alvin (lig/life). 0.8 (0.0-1.1) vs. 2.9 (2.1-		
	Controls:		$- AEC \cdot 14.6 (10.8 - 18.2) vc 27.2 (22.1 - 21.4)$		
	67 postmenarchal		n<0.001		
	controls: Mean age 27 3		p \0.001		
	(26.1-28.4) vr		Geometric mean (95% CI) reproductive		
	(hormone measures survivors treated with		
			alkylating agent score ≥ 3 or pelvic radiation		
			or TBI vs. other treatment vs. controls		
			adjusted for race and BMI:		
			- FSH (mIU/mL): 10.6 (8.7-12.9) vs. 7.9 (6.6-		
			9.5) vs. 6.9 (6.1-7.9), p<0.001		
			- E ₂ (pg/mL): 10.6 (18.1-29.1) vs. 24.5 (19.9-		
			30.3) vs. 31.8 (27.3-37.1), p<0.05		

- AMH (ng/mL): 0.5 (0.3-0.9) vs. 1.9 (1.2-
32 vs $31(22-44)$
5.2, 0.0 0.1 (2.2 11)
Geometric mean (95% CI) reproductive
hormone measures survivors treated with
pelvic radiation vs. controls adjusted for
age, race and BMI:
-ESH (mIII/mI): 28.4 vs. 9.4 n < 0.001
AMU(nz/m1): 0.15 + 0.124 + z.0.001
- AIVH (ng/mL): 0.15 vs. 1.24, p<0.001
- AFC: 2.9 vs. 17.5, p=0.001
Effect alkylating agent score in survivors
treated without pelvic radiation corrected
for age, race and DMI:
tor age, race and bin.
- Each unit increase in alkylator score,
geometric mean FSH values increased by
0.91 mIU/mL (p=0.016) and geometric
mean AMH levels decreased by 0.55
ng/ml (n=0.003)
Differences in Frank AFC ware not
- Differences in E ₂ and AFC were not
significant

Abbreviations: yr, years; TBI, total body irradiation; BMT, bone marrow transplantation; FSH, follicle-stimulating hormone; E2, oestradiol; AMH, anti-Müllerian hormone; AFC, antral follicle count; BMI, body mass index.

Sklar et al 2006. Premature Menopause in Survivors of Childhood Cancer: A Report from the Childhood Cancer Survivor Study. J Natl Cancer Inst 2006;98(13):890-6.

Study design				
Treatment era	Participants	Treatment	Main outcomes	Additional remarks
Years of follow-up				
Retrospective,	2,819 female CCS from	Surgery only: 287 (10%)	Outcome definition:	Authors Conclusion
multicentre survey:	total cohort of 6,079	CT only: 287 (10%)	Self-reported: if subjects had not	Risk for non-surgical PM 8% in
self-report	females alive, >18y of	RT only: 2 (<1%)	experienced a spontaneous menses for >6	CCS compared to 0.8% in siblings.
	age at Nov 2000.	CT+RT: 487 (17%)	months and other causes, e.g. pregnancy,	
1970 – 1989	Median age at diagnosis	Surgery+CT: 573 (20%)	use of agents such as injectable	Risk factors for non-surgical PM:
	7 yrs (range 0-20 yrs),	Surgery+RT: 238 (8%)	progesterone and GnRH-a have been	attained age, HL, exposure to
Years of FU:	median age at study 29	Surgery+CT+RT: 942 (33%)	excluded.	increasing doses of AA and/ or RT
not stated. Follow up	yrs (range 18-50 yrs).	SCT: 32 (1%)		to ovaries (any dose).
study: 2000-01 →FU			Premature menopause (<40yrs):	
from diagnosis: 14-30	Diagnoses N (%):	No information reported on	- 15% (RR 1.05, 95% Cl 1.04-1.07, p<0.001)	The highest risk of non-surgical
yrs	Leukaemia 1,025(36); HL	specific chemotherapy agents.	compared to siblings	PM was associated with
	404 (14); tumours of		- Surgical premature menopause ns	treatment including
	bone 324(11); kidney	Radiation dosimetry for each	different in CCS and siblings (RR 0.8, 95% CI	abdominopelvic RT and AA
	297(11); brain 137(5);	ovary separately was calculated	0.52-1.23)	
	sarcomas 271(10); NBI	from institution records	- Non-surgical PM: 8% in CCS, 0.8% in	<u>Comments</u>
	154(5).	(quantified by a single	siblings (RR 13.21, 95% CI 3.26-53.51,	Excellent large study with some
		dosimetrist)	p<0.001)	limitations:
	Exclusion criteria	RT doses grouped as No RT,		- Self-reported
	(n=1,801): diagnosis	1-99,100-999, or ≥1000 cGy	Risk-factors non-surgical premature	- Large number of participants
	associated with ovarian		menopause in multivariate analyses:	were excluded (1801 from 4620)
	dysfunction, primary	Chemotherapy:	- Attained age: RR 1.15, 95% CI 1.09-1.21,	- Among non-menopausal
	amenorrhoea, menses	7 broad classes of CT drugs from	p< 0.001	women 20% of survivors and 24%
	ceased <5y from	treatment records. Total	- RT dose to ovary:	siblings were taking OC (however
	diagnosis, AOF (6%),	exposure to (AA) was calculated	RT 1-99 cGy: RR 4.30, 95% CI 1.20-15.47,	after exclusion of these subjects
	questionnaire	for an individual by the overall	p=0.04)	results were almost identical to
	completed by other than	AA score of 0,1,2 or 3 according	RT 100-999 cGy: RR 5.70, 95% Cl 1.12-	entire cohort)
	participant.	to the dose distribution tertiles	28.99, p=0.04	

	(none, lower, middle or upper)	RT ≥1000 cGy: RR 109.59, 95% CI 28.15-	
Controls:		426.70, p<0.001	
N=1,065 siblings		- AA score:	
Sibling subset of CCS		AA score 1-2: RR 2.3, 95% Cl1.08-4.90,	
cohort with		p=0.03	
spontaneous		AA score 3 RR 5.78, 95% Cl 2.9-11.55,	
menstruation		p<0.001	
Median age: not		- HL (minimum ovarian RT):	
reported.		No ovarian RT: RR 9.18, 95% CI 1.52-55.24,	
		p=0.02	
		1-99 cGy: RR 12.26, 95% CI 3.41-44.14,	
		p<0.001	
		100-999 cGy: RR 11.41, 95% CI 2.75-47.26,	
		p<0.001	
		≥1000 cGy: RR 6.74, 95% Cl 0.63-71.74,	
		p=0.11	
		(Age at diagnosis not associated, data not	
		shown)	
		Cumulative incidence of non-surgical	
		premature menopause by age 40 years (see	
		<u>figure below):</u>	
		- AA only: ± 15%	
		- Abdominopelvic RT only: ± 5%	
		- AA + abdominopelvic RT: ± 30%	
		Among CCC without DT to evening 111 0.40	
		Among CCS without KT to ovaries, HL 9.18-	
		then other times of concer (05% Cl 1 52	
		than other types of cancer (95% CI 1.52-	
		55.24, p=0.02).	

Abbreviations: FU, follow-up; yrs, years; CCS, childhood cancer survivors; n, number; HL, hodgkin lymphoma; Nbl, neuroblastoma; AOF, acute ovarian failure; CT, chemotherapy; RT, radiotherapy; SCT, stem cell transplantation; PM, premature menopause; AA, Alkylating agents; GnRH-a, gonadotrophin-releasing hormone analogue.

in the childhood cancer survivor study. J Cl	in Endocrinol Metab. 2006;91(5):1723-8.	
Treatment	Main outcomes	Additional remarks
andAlkylating agents:21 yrs at1,684/3,390 (49.7%)Antimetabolites:Included, but percentage not30 Gy,reported.ofPlatinum compounds:eralIncluded, but percentage notreported.Included, but percentage notreported.statisticalAbdominal/pelvic radiotherage832/3,390 (24.5%)Alkylating agents (AA)+abdominal/pelvic radiotherape(RT):393/3,390 (11.6%)Cumulative doses of RT toovaries were calculated andgrouped as follows: <100, 100	Outcome definition: Self-reported: primary amenorrhoea or secondary amenorrhoea <5 years after cancer diagnosis.Prevalence of AOF: 215/ 3,390 (6.3%)Univariate analysis age at diagnosis: ≥ 12 yrs: OR 1.8 (1.4-2.4)DY:Multivariate analyses: Age at diagnosis 0-12 yr: - procarbazine: OR 3.2 (1.3-7.3) - cyclophosphamide: OR 1.2 (0.7-2.1) - ovarian irradiation (cGy) 1-99: OR 3.7 (1.6-10.2) 100-1999: OR 9.0 (3.4-26.5) 1000-1999: OR 95.3 (22.3-157.8) ≥ 2000 : OR 950.1 (352.9-3043.2)D:Age at diagnosis 13-20 yr: - proacarbazine: OR 2.6 (1.4-4.7) - cyclophosphamide: OR 4.9 (2.8-9.2) - ovarian irradiation (cGy) 1-99: OR 2.9 (1.2-8.3) 100-999: OR 90.9 (29.1-323.5) >2000: OR 90.9 (29.1-323.5) >2000: OR 171.2 (55.8-609.8)	Limitation: AOF defined as no spontaneous menses within 5 yr after cancer diagnosis and never spontaneous menses (all self- reported). Median follow-up >2.5 yr (only stated: follow-up 0-5 years)
	in the childhood cancer survivor study. J Cl Treatment and Alkylating agents: 1,684/3,390 (49.7%) Antimetabolites: ia: cranial 30 Gy, of or Platinum compounds: Included, but percentage not reported. iation Abdominal/pelvic radiotherage 832/3,390 (24.5%) Alkylating agents (AA)+ abdominal/pelvic radiotherape (RT): 393/3,390 (11.6%) Cumulative doses of RT to ovaries were calculated and grouped as follows: <100, 100 999, 1000-1999, and 2000cGy	In the childhood cancer survivor study. J Clin Endocrinol Metab. 2006;91(5):1723-8. Treatment Main outcomes and Alkylating agents: 0.400000000000000000000000000000000000

Abbreviations: Yrs, years; CCS, childhood cancer survivors; AOF, acute ovarian failure; AA, alkylating agents; RT, radiotherapy.

Jadoul et al 2011. Clinical and biologic evaluation of ovarian function in women treated by bone marrow transplantation for various indications during childhood or adolescence. Fertil Steril 2011;96(1):126-133.

Study design				
Treatment era	Participants	Treatment	Main outcomes	Additional remarks
Years of follow-up				
Cross-sectional,	35 (of 59 eligible)	Alkylating agents:	Outcome definition:	Authors' Conclusion:
single-centre study	females >16 yrs who	35 (100%): busulfan +	Absence of pubertal development or	- After BMT ovarian function is
	underwent BMT at age ,	cyclophosphamide, busulfan +	progression and secondary amenorrhea,	impaired in the majority of
Treatment era	<19 yrs, in complete	melfalan, cyclophosphamide	confirmed by menopausal FSH levels.	women even without clinical
not reported	remission for ≥3 yrs	only, melfalan only		signs of ovarian failure (as judged
			Whole Cohort	by AMH)
Years of FU from	23 (66%) diagnosed with	Antimetabolites:	16/35 (45.7%) persistent ovarian function,	- This impairment is mainly
BMT:	a malignancy, 12 (34%)	0 (0.0%)	but 85% low AMH levels (<1.2 ug/L).	related to older age at BMT
Mean (range) 15.5yrs	diagnosed with a benign			(>10y) and TBI
(3.3-33.7)	disease.	Platinum compounds:	Persistent ovarian function:	
FU from diagnosis		0 (0.0%)	BMT for malignancy 8/23 (35%) v BMT	
not reported	66% pre-menarcheal		benign disease 8/12 (67%) (p =0.07). After	<u>Comments</u>
	at BMT	Radiotherapy involving ovaries:	10y post- BMT 5/21 (24%) v 7/12	 Multivariate analyses: only p-
	Mean age at BMT	18 (51.4%) TBI (4-12Gy)	respectively, significant (p 0.047).	values shown.
	(range): 9.8 +/-5.2y (1.2-			- Fractionation of TBI not stated.
	19.0)	<u>BMT:</u>	Clinically proven ovarian failure and	Single fraction TBI generally has
	Mean age at study:	19 (54%) allogeneic; 16 (46%)	hormone measurement:	greater adverse effect on ovarian
	25.3+/-7.2y (16.6-46.4)	autologous	Prevalence POI post-BMT:	function.
	Mean years of follow up		21 (60.0%) (immediate 19, subsequently 2)	- Previous cranial or other
	from BMT:	All patients with malignancy had	35 (100%) low oestradiol and high FSH	radiation not stated.
	15.5+/-5.5y (3.3-33.7)	appropriate previous CT for	35 (100%) low AMH 0.16-1.03 microg/L	- Small numbers but all had
		their disease.	(median 0.5).	hormonal assessment
				 No separate analyses for group
			AMH 0.25-2.83 microg/L (median 0.90)	with BMT for malignant disease
			No significant difference in AMH levels	
			between patients treated for a malignant	We only reported risk factors in
			disease and those transplanted for a benign	multivariate analyses
			pathology.	
			Persistence of ovarian function by	
			treatment (not analysed for malignant	
			disease separately)	
			TBI + alkylating agents:4/18 (22%)	

Alkylating agents only:
12/17 (71%) (p<0.005); this remained
significant at 10 yrs nost-RMT ($n=0.01$)
Significant at 10 yrs post birt (p=0.01)
Multivariate regression analysis:
independent negative effect of TBI on
p_{1}
AMH levels and pregnancy N/S difference
(other variables within the model: not
reported).
Age and menarcheal status
Multivariate regression analysis:
independent protective effect of young age
at BMT ($p=0.004$)
100% girls >10y at Bivit with TBI had
irreversible premature ovarian failure vs.
40% girls <10y at BMT spontaneous puberty
(other variables in the model not reported)
(other variables in the moder not reported).
Age at evaluation and time since BMT: Not
significant (p-value not reported).

Abbreviations: Yrs, years; FU, follow up; TBI, total body irradiation; BMT, bone marrow transplantation; FSH, follicle-stimulating hormone; AMH, anti-Müllerian hormone; CT, chemotherapy; v, versus; POI, premature ovarian insufficiency; N/S, not significant.

Wallace et al. The radiosensitivi	ty of the human oocyte.	. Hum Reprod 2003;18(1):117-121.
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Study design Treatment era Years of follow-up	Participants	Treatment	Main outcomes	Additional remarks
Retrospective study	Two cohorts (n=27):	Cohort 1: CT +TBI, 14.4 Gy in 8	Cohort 1: POI 6/8	Not based on exact radiation
		fractions over 2 days, leukaemia	Cohort 2: POI 18/19	dose received by each ovary,
Cohort 1:	Cohort 1 (n=8)	(1 st or second remission),		homogeneous, small sample.
Treatment era not	Median age: 17.1 yr	median 11.5 yrs (4.9-15.1), no	Based on Faddy-Gosden mathematical	
reported, Scotland	(15.4-21.5), leukaemia,	shields to the ovaries.	model :	
	Scotland		LD50 (Dose of radiation required to destroy	
Cohort 2: treatment		Cohort 2: whole abdominal RT	50% of the oocytes) = 1.99 Gy.	
1966-1975, UK	Cohort 2 (n=19): intra-	(30 Gy, 16-26 fractions), surgery		
	abdominal tumour	and CT. median age at		
Years of follow-up		treatment 4 yrs (1.3-13.1), 8 pts		
not reported.		no CT, remaining 11		
		vincristine/adriamycin/actinomy		
		cin D.		

Abbreviations: UK, United Kingdom; yr(s), year(s); CT, chemotherapy; TBI, total body irradiation; RT, radiotherapy; POI, premature ovarian insufficiency.

Study design Treatment era Years of follow-up	Participants	Treatment	Main outcomes	Additional remarks
Retrospective study	Two cohorts $(n-27)$:	Cobort 1: CT +TBL 14 4 Gy in 8	Cohort 1: POL6/8 (reported previously)	Small sample n=27 mathematical
Refrospective study		fractions over 2 days leukaemia	Cohort 2: POI 18/19 (reported previously)	model
Cohorts previously	Cohort 1 $(n=8)$	$(1^{st} \text{ or second remission})$ no		modeli
described in Wallace	Median age at	shields to the ovaries	Based on Faddy-Gosden mathematical	-estimation
et al. 2003	treatment 11.5 vrs (4.9-		model (estimation):	-cohort 1: TBL cohort 2:
	15.1), median age at	Cohort 2: whole abdominal RT	Effective sterilizing dose (POI occurs	abdominal irradiation
Cohort 1:	assessment: 17.1 (15.4-	(30 Gy, 16-26 fractions), surgery	immediately after treatment in 97.5% of	(comparable?)
Treatment era not	21.5), leukaemia,	and CT, 8 pts no CT, remaining	patients):	
reported, Scotland	Scotland	11	At birth: 20.3 Gy; at 10 yrs: 18.4 Gy; at 20	
		vincristine/adriamycin/actinomy	yrs: 16.5 Gy; at 30 yrs: 14.3 Gy	
Cohort 2: treatment	Cohort 2 (n=19): intra-	cin D.		
1966-1975, UK	abdominal tumour,		Dy/day x = -y[0.0595 + 3.716 / (11.780 + y)]	
	median age at		X=age, y(x)=population at age x,	
Years of follow-up	treatment 4 yrs (1.3-		y(0)=population at birth	
not reported.	13.1), median age at			
	follow-up not stated.		Surviving % oocyte population = log(10)	
			g(z)=2-0.15z. Z= dose (Gy)	
			Using average oocyte population at x(chron)	
			-> calculating age at menopause.	
			95% CI= (age at menopause) ± (1.96xSD)	
			(see table for age at POI below)	

Wallace et al. Predicting age of ovarian failure after radiation to the field that includes the ovaries. Int J Radiation Oncology Biol Phys 2005;62(3):738-744.

Abbreviations: UK, United Kingdom; yr(s), year(s); CT, chemotherapy; TBI, total body irradiation; RT, radiotherapy; POI, premature ovarian insufficiency.