

Table SI. Characteristics of the included studies (individual patient data).

First author, year, country	Case	Age, years; menopausal status	Presentation (duration of symptoms)	First diagnostic modality	Histological type	Staging	Management	Follow-up (outcome)	(Refs.)
Nasiell ¹ 1964 Sweden	Case 1	39 pre-menopausal	• Irregular vaginal bleeding	Vaginal and cervical smear	Hodgkin's lymphoma	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy, Total abdominal hysterectomy and bilateral salpingo-oophorectomy Secondary: nil 	8 months (alive)	(1)
Moore ² 1965 UK	Case 1	49 perimenopausal ^a	• Irregular vaginal bleeding (2 months)	Examination under anaesthesia	Primary lymphosarcoma	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - pelvis, Secondary: nil 	n/a	(2)
Anderson ³ 1967 Hawaii	Case 1	40 perimenopausal ^a	• Asymptomatic	Incidental-Histopathology of total abdominal hysterectomy and bilateral salpingo-oophorectomy	Hodgkins's lymphoma	n/a	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, Secondary: Radiotherapy - cobalt external radiation therapy pelvis 	12 months (alive)	(3)
Camino ⁴ 1974 Mexico	Case 1	29 pre-menopausal	<ul style="list-style-type: none"> • Dyspareunia (8 months) • Weight loss • Irregular vaginal bleeding (1 week) 	(8 Cervical biopsy	Cervical lymphoma	FIGO Stage IV	<ul style="list-style-type: none"> Initial: Chemotherapy Secondary: Radiotherapy – pelvis, paraaortic chain 	1 month (deceased)	(4)
	Case 2	57 post-menopausal ^a	<ul style="list-style-type: none"> • Vaginal bleeding • Abdominal pain (7 months) 	Cervical cytology	Cervical lymphoma	n/a	<ul style="list-style-type: none"> Initial: Surgery Secondary: Radiotherapy – pelvis, paraaortic chain 	10 months (alive)	

Carr ⁵ 1976 UK	Cas e 1	44 peri- menopausal a	<ul style="list-style-type: none"> • Watery vaginal discharge • Heavy menstrual periods • Inter-menstrual bleeding • Post-coital bleeding (5 months) 	Examination under anaesthesia and biopsy	Extranodal reticulum-cell type lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy - pelvis and para-aortic nodes and cervix, • Secondary: n/a 	36 months (alive)	(5)
Tunca 1979 US	Cas e 1	22 pre- menopausal a	<ul style="list-style-type: none"> • Heavy vaginal bleeding 	Cervical biopsy	Histiocytic lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy - Cobalt-60 whole pelvis, • Secondary: Total abdominal hysterectomy and bilateral salpingo-oophorectomy 	n/a (alive)	(6)
Steinfeld 1979 USA	Cas e 1	29 pre- menopausal	<ul style="list-style-type: none"> • Post-coital bleeding (5 days) 	Cervical biopsy	Diffuse histiocytic lymphoma	IIE	<ul style="list-style-type: none"> • Initial: Radiotherapy - burnette applicator, • Secondary: Radiotherapy - external beam therapy, Chemotherapy - vincristine 	n/a	(7)
Komaki 1984 US	Cas e 1	43 peri- menopausal a	<ul style="list-style-type: none"> • Irregular menstrual periods • Abdominal discomfort • Pelvic discomfort (36 months) 	Cervical cytology	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Abdominal radiotherapy, • Secondary: Radiotherapy - abdomen and supradiaphragmatic lymph nodes 	81 months (alive)	(8)
	Cas e 2	38 pre- menopausal a	<ul style="list-style-type: none"> • Menorrhagia • Low-back pain (3 months) 	Cervical cytology	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Radiotherapy - pelvis and para-aortic lymph nodes, • Secondary: Radiotherapy - pelvis 	84 months (alive)	(8)

	Cas e 3	38 pre-menopausal _a	<ul style="list-style-type: none"> • Prolonged menstruation 	Functional dilatation and curettage	DLBCL		IIE	<ul style="list-style-type: none"> • Initial: Radiotherapy - pelvis and para-aortic lymph nodes, • Secondary: Radiotherapy - pelvis 	36 months (alive)	(8)
Bowen ⁹ 1985 South Africa	Cas e 1	22 pre-menopausal _a	<ul style="list-style-type: none"> • Brown-watery vaginal discharge (6 months) 	IV pycelography	Large-cell lymphoma		IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - modified CHOP (cyclophosphamide and doxorubicin, vincristine, bleomycin, and prednisolone, • Secondary: nil 	n/a	(9)
Gharpure 1985 India	Cas e 1	50 peri-menopausal _a	<ul style="list-style-type: none"> • Foul discharge • irregular vaginal bleeding (2 months) 	Cervical cytology	Diffuse poorly differentiated lymphocytic large-cell type lymphoma		n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy, • Secondary: nil 	8 months (deceased)	(10)
	Cas e 2	45 peri-menopausal _a	<ul style="list-style-type: none"> • Blood-stained vaginal discharge (1 month) 	Cervical cytology	Diffuse histiocytic lymphoma		n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy, • Secondary: nil 	6 months (deceased)	(10)
Taki 1985 Japan	Cas e 1	41 peri-menopausal _a	<ul style="list-style-type: none"> • Irregular vaginal bleeding 	Cervical cytology	Non-Hodgkin's lymphoma	B-cell	n/a	<ul style="list-style-type: none"> • Initial: Simple total hysterectomy and bilateral salpingo-oophorectomy, • Secondary: Radiotherapy - pelvis 	n/a	(11)
Bar 1986 Netherlands	Cas e 1	66 post-menopausal _a	<ul style="list-style-type: none"> • Uterine prolapse and vaginal bleeding 	CXR	Non-Hodgkin's lymphoma	B-cell	IE	<ul style="list-style-type: none"> • Initial: Hysterectomy, part of the parametrial tissue and pelvic lymph nodes, • Secondary: Chemotherapy - CHOP 	4 months (deceased)	(12)

Mann 1987 US	Cas e 1	44 peri- menopausal a	<ul style="list-style-type: none"> • Watery vaginal discharge 	Cervical biopsy	Small-cell non-cleaved lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy, • Secondary: Hysterectomy, Chemotherapy - F. Macop. (5-flurouracile, methotrexate, adriamycin, cytarabine, cyclophosphamide, vincristine, prednisolone) 	10 months (deceased)	(13)
Cardillo 1987 Italy	Cas e 1	37 pre- menopausal	<ul style="list-style-type: none"> • Left submandibular swelling • Leucorrhoea • Inter-menstrual spotting 	Cervical cytology	Low grade plasmacytoid non- Hodgkin's lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Modified radical hysterectomy, bilateral salpingo-oophorectomy, pelvic and periaortic lymph node sampling, • Secondary: Radiotherapy - pelvis 	40 months (alive)	(14)
Shimamoto 1987 Japan	Cas e 1	28 pre- menopausal	<ul style="list-style-type: none"> • Irregular bleeding (2 months) 	Cervical cytology	Diffuse lymphoma	IIE, FIGO Ib	<ul style="list-style-type: none"> • Initial: Surgery – hysterectomy, pelvic, mesenteric, and omental lymph node sampling • Secondary: Chemotherapy – CHOP 	8 months (alive)	(15)
Strang 1988 Sweden	Cas e 1	77 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding 	Cystoscopy	Aneuploid lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Hysterectomy, • Secondary: nil 	36 months (alive)	(16)
Ibrahim 1988 UK	Cas e 1	78 post- menopausal	<ul style="list-style-type: none"> • Intermittent vaginal bleeding (3 months) 	Cervical cytology	Diffuse non-Hodgkin's lymphoma large cell type	n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy - box technique, • Secondary: n/a 	24 months (alive)	(17)
Khong 1989 Singapore	Cas e 1	54 peri- menopausal a	<ul style="list-style-type: none"> • Irregular heavy vaginal bleeding (2 months) 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Surgery, • Secondary: Chemotherapy - CHOP-Mtx 	n/a (alive)	(18)

Khoury 1989 UK	Cas e 1	37 pre- menopausal a	<ul style="list-style-type: none"> Menorrhagia 	Examination under anaesthesia	Non-Hodgkin's lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - pelvis, Secondary: Laparotomy and excision of residual pelvic mass 	96 months (alive)	(19)
	Cas e 2	46 peri- menopausal a	<ul style="list-style-type: none"> Irregular vaginal bleeding (2 months) 	Cystoscopy	Non-Hodgkin's lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Total hysterectomy and bilateral salpingo-oophorectomy, Secondary: Radiotherapy 	102 months (alive)	(19)
Kurup 1989 Poland	Cas e 1	53 peri- menopausal a	<ul style="list-style-type: none"> Irregular vaginal bleeding aggravated by coitus (3 weeks) 	Cervical cytology	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - Cobalt 60 pelvis and para-aortic area, Secondary: Chemotherapy - COP 	n/a	(20)
Hashimoto 1989 Japan	Cas e 1	45 pre- menopausal	<ul style="list-style-type: none"> Vaginal bleeding (3 months) 	MRI	DLBCL		IIAE	<ul style="list-style-type: none"> Initial: Chemotherapy – R-CHOP Secondary: nil 	12 months (alive)	(21)
Campell 1989 UK	Cas e 1	32 pre- menopausal	<ul style="list-style-type: none"> Pelvic discomfort Frequent menstruation (2 months) 	Ultrasound	Diffuse non-Hodgkin's lymphoma		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Radiotherapy - pelvis 	6 months (alive)	(22)
Johnston 1989 USA	Cas e 1	22 pre- menopausal	<ul style="list-style-type: none"> Malodorous vaginal discharge Post-coital bleeding Irregular menstruation (2 months) 	Cervical cytology	Diffuse histiocytic lymphoma of type	of B-Cell	IE	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy and pelvic node sampling, 	33 months (alive)	(23)

								<ul style="list-style-type: none"> Secondary: Radiotherapy - external radiation 			
Matsuyama 1989 Japan	Cas e 1	69 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding (3 months) 	Cervical cytology	Large lymphoma	cell-type IIE	<ul style="list-style-type: none"> Initial: Radical hysterectomy with pelvic lymph node dissection and paraaortic lymph node biopsy, Secondary: Radiotherapy - pelvis 	n/a	(24)		
Murotsuki 1989 Japan	Cas e 1	85 post- menopausal	<ul style="list-style-type: none"> Vaginal bleeding (1 month) 	Cervical biopsy	Small, cleaved, diffuse B-cell lymphoma	IE, FIGO Ib	<ul style="list-style-type: none"> Initial: Total hysterectomy and bilateral salpingo-oophorectomy Secondary: nil 	1 year (alive)	(25)		
Stickelmann 1989 Germany	Cas e 1	65 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding 	Cervical cytology	Highly non-Hodgkin's lymphoma- B-cell series (centroblastic lymphoma)	I	<ul style="list-style-type: none"> Initial: Radiotherapy - Cobalt 60 pelvis and parametria, Secondary: Radiotherapy - radium 	9 months (alive)	(26)		
Mathiasen 1990 Denmark	Cas e 1	22 pre- menopausal	<ul style="list-style-type: none"> Vaginal bleeding (2 months) 	Cervical cytology	Centroblastic diffuse B- cell lymphoma	n/a	<ul style="list-style-type: none"> Initial: Radical hysterectomy and BSO and para-aortic lymph nodes and mesenteric lymph nodes, Secondary: Chemotherapy - cisplatin, VP-16, bleomycin, prednisolone 	34 months (alive)	(27)		

Dang 1991 USA	Cas e 1	35 pre- menopausal a	• Vaginal bleeding with clots (7 months)	Cervical cytology	Intermediate grade non- Hodgkin's B-cell lymphoma	n/a	• Initial: Radical abdominal hysterectomy, upper vaginectomy and right salpingo-oophorectomy with right pelvic and periaortic lymph node sampling, • Secondary: n/a	n/a	(28)
Hachisuga 1991 Japan	Cas e 1	60 post- menopausal a	• Post-menopausal bleeding	Cervical cytology	Lymphoma-like lesion	n/a	• Initial: Radical abdominal hysterectomy, upper vaginectomy and right salpingo-oophorectomy with right pelvic and periaortic lymph node sampling, • Secondary: n/a	32 months (alive)	(29)
Pasini 1991 Italy	Cas e 1	35 pre- menopausal a	• Post-coital bleeding (24 months)	Colposcopy	Follicular centre cell derived B-cell lymphoma	IIE	• Initial: Chemotherapy - vincristine, adriamycin, cyclophosphamide, VP16, prednisolone, • Secondary: n/a	12 months (alive)	(30)
Malatskey 1991 USA	Cas e 1	45 peri- menopausal a	• Inter-menstrual bleeding	Ultrasound	Large cell lymphoma	B-cell n/a	• Initial: Total hysterectomy and bilateral salpingo- oophorectomy, • Secondary: nil	n/a	(31)
Perren 1992 UK	Cas e 1	54 peri- menopausal a	• Irregular vaginal bleeding (24 months)	Examination under anaesthesia and cervical biopsy	Diffuse small cleaved cells and large cell lymphoma without sclerosis	IIEA	• Initial: Radiotherapy, • Secondary: n/a	216 months (deceased)	(32)

	Cas e 2	47 peri-menopausal ^a	<ul style="list-style-type: none"> • Pre-menstrual vaginal discharge • Malaise • Weight loss • Night sweats (9 months) 	Examination under anaesthesia cervical biopsy endometrial curettage	Diffuse small cleaved cells and large cell lymphoma without sclerosis	IEEB	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP, • Secondary: n/a 	60 months (alive)	(32)
	Cas e 3	53 peri-menopausal ^a	<ul style="list-style-type: none"> • Urinary frequency and hesitancy (3 months) 	Examination under anaesthesia vaginal biopsy	Diffuse large cleaved cell lymphoma without sclerosis	IEA	<ul style="list-style-type: none"> • Initial: Radiotherapy - whole pelvis, • Secondary: n/a 	240 months (alive)	(32)
	Cas e 4	41 peri-menopausal ^a	<ul style="list-style-type: none"> • Offensive vaginal discharge (1 month) 	Examination under anaesthesia and biopsy	Diffuse small cleaved cells and large cell lymphoma with some sclerosis	IEA	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP, • Secondary: Radiotherapy - pelvis and two caesium insertions 	96 months (alive)	(32)
	Cas e 5	35 pre-menopausal	<ul style="list-style-type: none"> • Post-coital bleeding (3 months) • Right loin pain (1 month) (4 months) 	Examination under anaesthesia and biopsy	Diffuse lymphoma with marked sclerosis	IEA	<ul style="list-style-type: none"> • Initial: Radiotherapy - external beam pelvis and para-aortic nodes, • Secondary: Chemotherapy - cyclophosphamide, vincristine, prednisolone 	38 months (alive)	(32)
Maryniak 1993 Poland	Cas e 1	72 post-menopausal	<ul style="list-style-type: none"> • Vaginal bleeding 	n/a	High grade B -cell lymphoma	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy mitomycin C (peritoneal injection), • Secondary: Radiotherapy 	18 months (deceased)	(33)
	Cas e 2	53 post-menopausal	<ul style="list-style-type: none"> • Pelvic discomfort 	n/a	High-grade lymphoma	B-cell IIE	<ul style="list-style-type: none"> • Initial: Total hysterectomy, • Secondary: Radiotherapy 	38 months (alive)	(33)
	Cas e 3	24	<ul style="list-style-type: none"> • Vaginal bleeding 	n/a	Low grade lymphoma	B-cell IIE	<ul style="list-style-type: none"> • Initial: Total hysterectomy and 	20 months	(33)

		pre-menopausal							bilateral salpingo-oophorectomy, (deceased)		
Aozasa 1993 Japan	Case 1	71 post-menopausal	• Genital bleeding	n/a	DLBCL		NA		• Secondary: Radiotherapy		
	Case 2	30 pre-menopausal	• Genital bleeding	n/a	Diffuse predominantly noncleaved cell	large	II		• Initial: Surgery, Radiotherapy	12 months (deceased)	(34)
	Case 3	41 peri-menopausal	• Genital bleeding	n/a	Diffuse predominantly cell type	large cleaved	II		• Secondary: Radiotherapy	2 months (deceased)	(34)
	Case 4	71 post-menopausal	• Genital bleeding	n/a	Diffuse and lymphoma	mixed large small cell	I		• Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy and pelvic lymph node dissection,	8 months (deceased)	(34)
Broekmans 1993 Netherlands	Case 1	45 pre-menopausal	• Slight post-coital bleeding	Cervical cytology	Non-Hodgkin's lymphoma	B-cell	IE		• Secondary: nil	24 months (deceased)	(34)
Makarewicz 1993 Poland	Case 1	37 pre-menopausal	• Heavy menstrual bleeding • Post-coital bleeding	Cervical biopsy	Centroblastic non-Hodgkin's lymphoma	B-cell	IEA		• Initial: Hysterectomy, Radiotherapy	36 months (alive)	(35)
									• Secondary: nil	96 months (alive)	(36)

	Cas e 2	33 pre-menopausal	<ul style="list-style-type: none"> Offensive vaginal discharge Post-coital bleeding 	Cervical biopsy	Centroblastic centrocytic diffuse B-cell non-Hodgkin's lymphoma	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - external beam whole pelvis, Secondary: nil 	42 months (alive)	(36)
	Cas e 3	65 post-menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding 	Cervical biopsy	Lymphoblastic lymphoma	B-cell IEA	<ul style="list-style-type: none"> Initial: Radiotherapy, Secondary: nil 	36 months (alive)	(36)
Rodier 1993 France	Cas e 1	55 post-menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding (3 months) 	Cervical biopsy	Non-Hodgkin's lymphoma type B	B-cell n/a	<ul style="list-style-type: none"> Initial: Chemotherapy, Secondary: Radiotherapy 	n/a (alive)	(37)
Kasales 1994 USA	Cas e 1	20 pre-menopausal _a	<ul style="list-style-type: none"> Vaginal bleeding 	Cervical biopsy	Anaplastic lymphoma	large-cell n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - external whole pelvis regional cobalt irradiation, Secondary: n/a 	8 months (alive)	(38)
	Cas e 2	31 pre-menopausal _a	<ul style="list-style-type: none"> Deep pelvic pain Vaginal bleeding 	Cervical biopsy	Mixed lymphoma	histiocytic n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - pelvis, Secondary: nil 	36 months (alive)	(38)
	Cas e 3	53 peri-menopausal _a	<ul style="list-style-type: none"> 10-pound weight gain TV 	CT pelvis	Mixed cell lymphoma	small and large non-Hodgkin's n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - external pelvis, Secondary: Radiotherapy - Cobalt 60 high dose intracavitary 	72 months (alive)	(38)
Cuykx 1994 Belgium	Cas e 1	40 peri-menopausal _a	<ul style="list-style-type: none"> Intermenstrual bleeding (5 months) 	Ultrasound	Extranodal Hodgkin's lymphoma	non-B-cell n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Radiotherapy 	12 months (alive)	(39)
Awwad 1994 Lebanon	Cas e 1	27 pre-menopausal	<ul style="list-style-type: none"> Post-coital bleeding Irregular menses (3 months) 	Cervical biopsy	Lymphoma	IIA	<ul style="list-style-type: none"> Initial: Chemotherapy - pro-MACE and CytoBOM, Secondary: nil 	n/a	(40)

Huh 1994 South Korea	Cas e 1	36 pre- menopausal	<ul style="list-style-type: none"> • Irregular vaginal bleeding • Pelvic discomfort (3 months) 	Cervical cytology	Intermediate grade diffuse small cleaved cell lymphoma	IEA	<ul style="list-style-type: none"> • Initial: Supracervical hysterectomy and bilateral salpingo-oophorectomy, • Secondary: Chemotherapy - CHOP, Radiotherapy 	48 months (alive)	(41)
Patsner 1994 USA	Cas e 1	38 pre- menopausal	<ul style="list-style-type: none"> • Irregular vaginal bleeding 	Cervical cytology	cervical non-Hodgkin's B-cell lymphoma	IE	<ul style="list-style-type: none"> • Initial: Leuprolide acetate, • Secondary: Chemotherapy - CHOP, Radiotherapy - whole pelvis 	36 months (alive)	(42)
Makarewicz 1995 Poland	Cas e 1	37 pre- menopausal ^a	<ul style="list-style-type: none"> • Menorrhagia • Post-coital bleeding 	Cervical biopsy	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: Emergency hysterectomy and left salpingo-oophorectomy, • Secondary: Radiotherapy 	36 months (alive)	(43)
	Cas e 2	33 pre- menopausal ^a	<ul style="list-style-type: none"> • Offensive vaginal discharge • Post-coital bleeding 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Radiotherapy, • Secondary: n/a 	42 months (alive)	(43)
	Cas e 3	65 post- menopausal ^a	<ul style="list-style-type: none"> • Postmenopausal bleeding 	Cervical biopsy	B-cell lymphoblastic lymphoma	IEA	<ul style="list-style-type: none"> • Initial: Hysterectomy, • Secondary: Radiotherapy 	96 months (alive)	(43)
Kawakami 1995 USA	Cas e 1	60 post- menopausal ^a	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	Pleomorphic medium sized and large cell non- Hodgkin's B-cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	n/a	(44)
	Cas e 2	37 pre- menopausal	<ul style="list-style-type: none"> • Abnormal vaginal bleeding (1 month) 	Pelvic ultrasound	Non-Hodgkins T- cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	n/a	(44)
	Cas e 3	63 post- menopausal ^a	<ul style="list-style-type: none"> • Abnormal vaginal bleeding (2 months) 	Cervical biopsy	Small lymphocytic non- Hodgkin's B-cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: nil 	n/a (alive)	(44)

	Cas e 4	66 post-menopausal	<ul style="list-style-type: none"> Asymptomatic 	Cervical cytology	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Surgery, Secondary: Chemotherapy 	n/a (alive)	(44)
Gupta 1995 Saudi Arabia	Cas e 1	38 pre-menopausal	<ul style="list-style-type: none"> Irregular prolonged menstrual bleeding (10 months) Heavy vaginal bleeding (2 days) (10 months + 2 days) 	Histology from emergency total abdominal hysterectomy	Non-Hodgkin's lymphoma type B		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - cyclophosphamide, vincristine, prednisone, Secondary: Radiotherapy - Cobalt 60 external whole pelvis 	3 months (alive)	(45)
Holweg 1995 Germany	Cas e 1	48 pre-menopausal	<ul style="list-style-type: none"> Inter-menstrual bleeding (12 months) 	Cervical cytology	Non-Hodgkin's lymphoma	B-cell	FIGO IB IEA	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, Secondary: n/a 	n/a	(46)
	Cas e 2	35 pre-menopausal	<ul style="list-style-type: none"> Heavy menstrual bleeding (2 months) 	Cervical cytology	Centrocytic-centroblastic Hodgkin's lymphoma	non-B-cell	FIGO IIB IEA	<ul style="list-style-type: none"> Initial: Chemotherapy - COP (cyclophosphamide, vincristine, prednisone), Secondary: Radiotherapy - external whole pelvis 	n/a	(46)
Plewicka 1995 Poland	Cas e 1	56 post-menopausal ^a	<ul style="list-style-type: none"> Abdominal pain lumbosacral spine discomfort Oedema of lower extremities (3months) 	Cervical biopsy	Lymphoma		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP (including 3 with Adriamycin), Secondary: Chemotherapy - nitrogranulogen and vepesid and steroid therapies 	12 months (alive)	(46)

Papadopoulos 1996 UK	Cas e 1	36 pre- menopausal a	<ul style="list-style-type: none"> • Irregular bleeding 1 episode of post-coital bleeding (1 month) • Heavy vaginal bleeding and night sweats (1 month) 	Ultrasound pelvis	High grade lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Embolisation of branches of the right uterine artery and branch vessels of the anterior division of the right internal iliac artery and distal branches of the left uterine artery, • Secondary: Chemotherapy - cyclophosphamide, etoposide, adriamycin, cytosine arabinoside, bleomycin, vincristine, methotrexate 	48 months (alive)	(48)
	Cas e 2	69 post- menopausal	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	Diffuse small cleaved B-cell lymphoma	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	12 months (alive)	(48)
Abbas 1996 USA	Cas e 1	25 pre- menopausal a	<ul style="list-style-type: none"> • Heavy vaginal bleeding 	CT scan pelvis and abdomen	Non-Hodgkin's lymphoma	B-cell n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	1.5 months (alive)	(49)
Dhimes 1996 Spain	Cas e 1	69 post- menopausal	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	Diffuse small cleaved B-cell lymphoma	IE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy, • Secondary: nil 	12 months (alive)	(50)
Fianza 1996 Italy	Cas e 1	58 post- menopausal	<ul style="list-style-type: none"> • Menorrhagia (2 months) 	Cervical biopsy	Centroblastic Hodgkin's lymphoma	non- B-cell IIE, FIGO IIb	<ul style="list-style-type: none"> • Initial: Chemotherapy - cyclophosphamide, cortisone • Secondary: nil 	132 months (alive)	(51)
	Cas e 2	22 pre- menopausal	<ul style="list-style-type: none"> • Leucorrhoea • Menorrhagia 	US pelvis	Large B-cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - CycLOBEAP • Secondary: nil 	12 months (alive)	(51)

al-Talib 1996 UK	Cas e 1	45 peri- menopausal a	<ul style="list-style-type: none"> • Post-coital bleeding 	Cervical cytology	High grade Hodgkin's lymphoma	non- B-cell	n/a	<ul style="list-style-type: none"> • Initial: abdominal hysterectomy, Total 24 months (alive) • Secondary: Chemotherapy - CHOP, Radiotherapy - pelvis 	(52)
	Cas e 2	20 pre- menopausal a	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	DLBCL		n/a	<ul style="list-style-type: none"> • Initial: Radical hysterectomy and bilateral salpingo-oophorectomy, 9 months (alive) • Secondary: n/a 	(52)
Biswal 1997 India	Cas e 1	45 pre- menopausal	<ul style="list-style-type: none"> • Post-coital bleeding • Offensive vaginal discharge • Dysuria • Lower abdominal pain (6 months) 	Examination under anaesthesia	DLBCL		n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - cyclophosphamide, doxorubicin, vincristine, prednisone, 5 months (alive) • Secondary: Radiotherapy - external whole pelvis 	(53)
el Ghazi 1997 Morocco	Cas e 1	61 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding • Vaginal discharge 	Cervical biopsy	Centroblastic Hodgkin's lymphoma	non- B-cell	1E (IIIA FIGO)	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP-like (cyclophosphamide, epirubicin, vincristine, prednisolone), 28 months (alive) • Secondary: Radiotherapy 	(54)
Lee 1998 Singapore	Cas e 1	67 post- menopausal a	<ul style="list-style-type: none"> • Post-coital bleeding 	Polypectomy	Non-Hodgkin's lymphoma	B-cell	1EA	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, n/a (alive) • Secondary: Radiotherapy, Chemotherapy - CHOP 	(55)

	Cas e 2	65 post-menopausal ^a	• Vaginal bleeding with clots (2 months)	Cervical biopsy	Non-Hodgkin's lymphoma	B-cell	IEA	• Initial: Chemotherapy - CHOP chemotherapy (cyclophosphamide, doxorubicin, vincristine and prednisolone), • Secondary: nil	n/a (alive)	(55)
Chandy 1998 India	Cas e 1	50 post-menopausal	• Post-menopausal vaginal bleeding	Vaginal biopsy	Extranodal Hodgkin's lymphoma	non-B-cell	IE	• Initial: Total hysterectomy and bilateral salpingo-oophorectomy with resection of right common and external iliac nodes, • Secondary: Radiotherapy	n/a (alive)	(56)
Clarke 1998 UK	Cas e 1	28 pre-menopausal ^a	• Post-coital bleeding (3 months)	Cystoscopy	High grade Hodgkin's lymphoma	non-B-cell	IEA	• Initial: Total hysterectomy and bilateral salpingo-oophorectomy with paraaortic node sampling and pelvic lymphadenectomy, • Secondary: Radiotherapy	6 months (alive)	(57)
Kaito 1998 Japan	Cas e 1	28 pre-menopausal	• Irregular bleeding (2 months)	MRI pelvis	DLBCL		n/a	• Initial: Chemotherapy - CHOP • Secondary: Radiotherapy	11 months (alive)	(58)
Bilgin 1999 Turkey	Cas e 1	74 post-menopausal	• Post-menopausal vaginal bleeding (7 months)	Cervical biopsy	Non-Hodgkin's lymphoma	B-cell	IIIE	• Initial: Chemotherapy - CHOP, • Secondary: nil	24 months (alive)	(59)
Grace 1999 Ireland	Cas e 1	52	• Asymptomatic	Colposcopy	Follicular Hodgkin's lymphoma	non-B-cell	IIIE	• Initial: nil, • Secondary: nil	4 months (alive)	(60)

		peri-menopausal ^a											
	Cas e 2	36 pre-menopausal ^a	<ul style="list-style-type: none"> • Intermenstrual bleeding • Post-coital bleeding (6 months) 	Colposcopy	High grade Hodgkin's lymphoma	non-B-cell	IAE	<ul style="list-style-type: none"> • Initial: n/a • Chemotherapy - CHOP (vinblastine), • Secondary: nil 	n/a	(60)			
Wang 1999 Taiwan	Cas e 1	35 pre-menopausal ^a	<ul style="list-style-type: none"> • Asymptomatic 	Radical abdominal hysterectomy	Low grade Hodgkin's lymphoma	non-B-cell	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	n/a	(61)			
Isosaka 1999 Japan	Cas e 1	67 post-menopausal ^a	<ul style="list-style-type: none"> • Heavy vaginal bleeding (4 days) 	CT pelvis	DLBCL		IE	<ul style="list-style-type: none"> • Initial: Chemotherapy – R-CHOP • Secondary: Radiotherapy 	24 months (alive)	(62)			
Mhaweck 2000 USA	Cas e 1	30 pre-menopausal ^a	<ul style="list-style-type: none"> • Lower abdominal pain • Vaginal bleeding 	CT scan pelvis and abdomen	NK-cell lymphoma		IE	<ul style="list-style-type: none"> • Initial: Radiotherapy - whole pelvis, • Secondary: nil 	n/a	(63)			
	Cas e 2	45 peri-menopausal ^a	<ul style="list-style-type: none"> • Increasing back and bone pain (4 months) 	n/a	Blastoid lymphoma/leukaemia	NK-cell	n/a	<ul style="list-style-type: none"> • Initial: Total hysterectomy and bilateral salpingo-oophorectomy, • Secondary: nil 	n/a	(63)			
Agarossi 2000 Italy	Cas e 1	38 pre-menopausal ^a	<ul style="list-style-type: none"> • Compelling fever • Weakness • Weight loss • Malodorous vaginal leucorrhoea • Vaginal spotting 	Colposcopy	Extranodal Hodgkin's lymphoma	non-B-cell	IE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy, • Secondary: nil 	3 months (deceased)	(64)			
Kostopoulos 2000 Greece	Cas e 1	64 post-menopausal	<ul style="list-style-type: none"> • Lower abdominal pain • Vaginal bleeding 	n/a	DLBCL		IE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, 	n/a	(65)			

Yokoyama 2000 Japan	Cas e 1	55 post- menopausal	<ul style="list-style-type: none"> • Watery vaginal discharge (1 month) 	MRI pelvis	Large cleaved cell diffuse lymphoma	IIIEA	<ul style="list-style-type: none"> • Secondary: Chemotherapy - cyclophosphamide, doxorubicin, vincristine, prednisone • Initial: Cervical conization, 12 months (alive) 	(66)
Piura 2001 Israel	Cas e 1	20 pre- menopausal ^a	<ul style="list-style-type: none"> • Asymptomatic 	Colposcopy	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Secondary: n/a • Initial: Nil, 52 months (alive) • Secondary: n/a 	(67)
	Cas e 2	23 pre- menopausal ^a	<ul style="list-style-type: none"> • Post-coital bleeding (2 months) 	Cervical cytology	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - CEOP (cyclophosphamide, epirubicin, vincristine, prednisolone), 18 months (alive) • Secondary: Radiotherapy - pelvis 	(67)
Sharin-Mansouri 2001 USA	Cas e 1	34 pre- menopausal ^a	<ul style="list-style-type: none"> • Inter-menstrual bleeding • Post-coital bleeding (8 months) 	Colposcopy	Intermediate grade non-Hodgkin's B-cell lymphoma	IAE	<ul style="list-style-type: none"> • Initial: Chemotherapy - mitoxantrone, cyclophosphamide, vincristine, prednisolone, 48 months (alive) • Secondary: Chemotherapy 	(68)
Kaneko 2001 Japan	Cas e 1	72 post- menopausal	<ul style="list-style-type: none"> • Abdominal pain (1 month) 	MRI pelvis	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, 3 months (deceased) • Secondary: Chemotherapy - mitoxantrone, etoposide, carboplatin, 	(69)

Vang 2001 USA	Cas e 2	65 post- menopausal	<ul style="list-style-type: none"> • Reduced urine output • Fever (2 weeks) 	urine	CT abdomen pelvis	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP, prednisolone and another with dexamethasone • Secondary: Chemotherapy mitoxantrone, etoposide, carboplatin, prednisolone, and another with dexamethasone 	6 months (deceased)	(69)
	Cas e 3	45 peri- menopausal a	<ul style="list-style-type: none"> • Asymptomatic 		Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Hysterectomy, Chemotherapy CHOP • Secondary: Radical abdominal hysterectomy, bilateral salpingo-oophorectomy and pelvic lymph node dissection, Chemotherapy CHOP 	59 months (alive)	(69)
	Cas e 1	30 pre- menopausal	<ul style="list-style-type: none"> • Abnormal vaginal bleeding 		n/a	NK-cell	IE	<ul style="list-style-type: none"> • Initial: Radical abdominal hysterectomy, bilateral salpingo-oophorectomy and pelvic lymph node dissection, Chemotherapy CHOP • Secondary: Chemotherapy CHOP 	n/a	(70)
	Cas e 2	39 pre- menopausal	<ul style="list-style-type: none"> • Asymptomatic 		n/a	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy-proMECE/CytaBOM (cyclophosphamide, epirubicin, etoposide, prednisone, cytarabine, vincristine, bleomycin, methotrexate), 	7 months (alive)	(70)

Cas e 3	46 peri-menopausal _a	• Adnexal and mass pain	n/a	DLBCL	IE	<ul style="list-style-type: none"> • Secondary: Total abdominal hysterectomy and bilateral salpingo-oophorectomy • Initial: Chemotherapy - cyclophosphamide, doxorubicin, vincristine, and prednisolone, 66 months (alive) • Secondary: Radiotherapy - pelvis 	(70)
Cas e 4	53 peri-menopausal _a	• Asymptomatic	n/a	Marginal zone lymphoma	B-cell IE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy, 120 months (alive) • Secondary: n/a 	(70)
Cas e 5	57 post-menopausal _a	• Abnormal uterine bleeding	n/a	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, 60 months (alive) • Secondary: n/a 	(70)
Cas e 6	57 post-menopausal _a	• Abnormal uterine bleeding	n/a	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Cervical conization, 72 months (alive) • Secondary: n/a 	(70)
Cas e 7	61 post-menopausal _a	• Abnormal uterine bleeding	n/a	Grade 1 Lymphoma	Follicular IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy, 12 months (deceased) • Secondary: Radiotherapy 	(70)
Cas e 8	65 post-menopausal	• Abnormal uterine bleeding	n/a	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy, 108 months 	(70)
Cas e 9	67 post-menopausal	• Asymptomatic	n/a	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy, 108 months 	(70)

	Cas e 10	67 post- menopausal	<ul style="list-style-type: none"> Abnormal uterine bleeding 	n/a	DLBCL	IE	<ul style="list-style-type: none"> Secondary: Radiotherapy Initial: abdominal hysterectomy and bilateral salpingo-oophorectomy, Secondary: Chemotherapy, Radiotherapy 	Total 60 months (alive)	(deceased) (70)
Jha 2001 Ireland	Cas e 1	67 post- menopausal	<ul style="list-style-type: none"> Nausea Haematuria Lower abdominal pain (4 days) 	Transabdominal ultrasound	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy, Secondary: n/a 	66 months (alive)	(71)
Rossi 2001 Italy	Cas e 1	46 pre- menopausal	<ul style="list-style-type: none"> Inter-menstrual bleeding 	Colposcopy and cervical polypectomy	High grade large B-cell MALT-type lymphoma	IV	<ul style="list-style-type: none"> Initial: conization, Secondary: Chemotherapy 	Cervical 36 months (alive)	(72)
Liro 2001 Poland	Cas e 1	58 post- menopausal	<ul style="list-style-type: none"> Vaginal spotting (6months) Heavy vaginal bleeding Vaginal discharge (2 months) Vaginal bleeding (2 weeks) 	Cervical biopsy	Non-Hodgkin's B-cell lymphoma type B	n/a	<ul style="list-style-type: none"> Initial: conization, Secondary: Chemotherapy, Radiotherapy 	Cervical n/a (alive)	(73)
Bode 2002 Finland	Cas e 1	46 peri- menopausal	<ul style="list-style-type: none"> Vaginal bleeding (2 weeks) 	Transabdominal and transvaginal ultrasound	Follicular lymphoma	IE	<ul style="list-style-type: none"> Initial: Embolization of both uterine arteries using polyvinyl alcohol particles, Secondary: Chemotherapy - CEOP, Radiotherapy 	10 months (alive)	(74)
Marin 2002 Spain	Cas e 1	63 post- menopausal	<ul style="list-style-type: none"> Asymptomatic 	Cervical cytology	B-cell lymphoblastic NHL (Non-Hodgkin Lymphoma)	n/a	<ul style="list-style-type: none"> Initial: Radical hysterectomy and pelvic lymphadenectomy, 	n/a	(75)

Lyman 2002 USA	Cas e 1	38 pre- menopausal	<ul style="list-style-type: none"> Abdominal pain Vaginal bleeding 	Histology from hysterectomy	T-cell lymphoblastic leukaemia	acute	n/a	<ul style="list-style-type: none"> Secondary: Radiotherapy Initial: n/a (deceased) Secondary: n/a 	(76)
el Mrabet 2002 Morocco	Cas e 1	66 post- menopausal	<ul style="list-style-type: none"> Postmenopausal bleeding (5 months) 	Cervical biopsy	Non-Hodgkin's lymphoma type B	B-cell	1E (1A FIGO)	<ul style="list-style-type: none"> Initial: 26 months (alive) Secondary: n/a Initial: 96 months (alive) 	(77)
Au 2003 China	Cas e 1	45 peri- menopausal a	<ul style="list-style-type: none"> Foul vaginal discharge 	Cervical cytology	DLBCL		IIEB	<ul style="list-style-type: none"> Initial: 96 months (alive) Secondary: nil 	(78)
	Cas e 2	50 post- menopausal	<ul style="list-style-type: none"> Vaginal bleeding 	Cervical cytology	Lymphoma-like lesion		n/a	<ul style="list-style-type: none"> Initial: Large Loop 12 months (alive) Secondary: nil 	(78)
	Cas e 3	35 pre- menopausal a	<ul style="list-style-type: none"> Yellowish blood- stained vaginal discharge 	Cervical cytology	Lymphoma-like lesion		n/a	<ul style="list-style-type: none"> Initial: Large Loop 60 months (alive) Secondary: Cone biopsy 	(78)
Baxter 2003 UK	Cas e 1	75 post- menopausal	<ul style="list-style-type: none"> Post-menopausal vaginal bleeding 	Ultrasound	Large cell lymphoma	follicular	n/a	<ul style="list-style-type: none"> Initial: 6 months (alive) Secondary: nil 	(79)
Gabriele 2003 Italy	Cas e 1	40 peri- menopausal a	<ul style="list-style-type: none"> Heavy uterine bleeding 	Cervical cytology	Extranodal Hodgkin's lymphoma	large non- B-cell	n/a	<ul style="list-style-type: none"> Initial: 27 months (alive) Secondary: nil 	(80)

Kahlifa 2003 USA	Cas e 1	32 pre- menopausal a	<ul style="list-style-type: none"> Menorrhagia LLQ pain Weight loss (3 weeks) 	CT pelvis	DLBCL	n/a	<ul style="list-style-type: none"> Initial: 10 months (alive) Chemotherapy: CHOP, Secondary: Radiotherapy - pelvis 	(81)
Szantho 2003 USA	Cas e 1	56 post- menopausal	<ul style="list-style-type: none"> Bloody discharge 	Ultrasound	Non-Hodgkin's lymphoma	B-cell IE	<ul style="list-style-type: none"> Initial: 60 months (alive) Chemotherapy: CHOP (cyclophosphamide, doxorubicin, vincristine, prednisolone), Secondary: n/a 	(82)
Quattrini 2003 Italy	Cas e 1	57 post- menopausal a	<ul style="list-style-type: none"> Vaginal bleeding 	Colposcopy and cervical biopsy	B-cell lymphocytic leukaemia/small lymphocytic lymphoma (B-CLL/SLL)	chronic n/a	<ul style="list-style-type: none"> Initial: n/a, n/a (deceased) Secondary: n/a 	(83)
Sun 2003 China	Cas e 1	72 post- menopausal	<ul style="list-style-type: none"> Heavy vaginal bleeding Low grade fever 	CT abdomen pelvis	lymphoma	n/a	<ul style="list-style-type: none"> Initial: n/a (84) Chemotherapy: CHOP 1 (cyclophosphamide, adriamycin, vincristine, prednisone), Secondary: Radical hysterectomy with bilateral salpingo-oophorectomy and lymph node resection 	
Thyagarajan 2004 UK	Cas e 1	41 peri- menopausal a	<ul style="list-style-type: none"> Urinary symptoms and menorrhagia 	Cervical biopsy	High grade non-Hodgkin's lymphoma	B-cell n/a	<ul style="list-style-type: none"> Initial: 7 months (alive) Chemotherapy, Secondary: Radiotherapy 	(85)
KendrickJETH 2005 USA	Cas e 1	66 post- menopausal a	<ul style="list-style-type: none"> Abdominal bloating Early satiety (1 month) 	CT pelvis	Intermediate grade non-Hodgkin's lymphoma	B-cell IV	<ul style="list-style-type: none"> Initial: n/a, 18 months (alive) Secondary: n/a 	(86)

Chan 2005 USA	Cas e 2	47 peri- menopausal a	<ul style="list-style-type: none"> Malodorous vaginal discharge 	Cervical biopsy	Intermediate grade non-Hodgkin's B-cell lymphoma	n/a	<ul style="list-style-type: none"> Initial: Bilateral pelvic lymphadenectomy, Secondary: nil 	16 months (alive)	(86)
	Cas e 1	62 post- menopausal	<ul style="list-style-type: none"> Vaginal discharge Pelvic pain 	n/a	High grade small-cell non-Burkitt	IEA	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP with rituxan, Secondary: nil 	72 months (deceased)	(87)
	Cas e 2	40 pre- menopausal	<ul style="list-style-type: none"> Vaginal bleeding Abdominal pain 	n/a	DLBCL	IVEA	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: nil 	12 months (alive)	(87)
	Cas e 3	41 pre- menopausal	<ul style="list-style-type: none"> Severe weakness Abdominal pain Weight loss Fever Night sweats 	n/a	DLBCL	IIIEB	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP with rituxan, Secondary: Total abdominal hysterectomy, chemotherapy 	11 months (deceased)	(87)
	Cas e 4	49 pre- menopausal	<ul style="list-style-type: none"> Vaginal bleeding Abdominal pain 	n/a	High lymphoblastic lymphoma	grade IVEA	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy and pelvic lymphadenectomy, Secondary: Radiotherapy - pelvis 	36 months (alive)	(87)
	Cas e 5	76 post- menopausal	<ul style="list-style-type: none"> Asymptomatic 	n/a	DLBCL	IEA	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP and rituxan, Secondary: nil 	14 months (alive)	(87)
	Cas e 6	52 post- menopausal	<ul style="list-style-type: none"> Vaginal bleeding Weight loss Fatigue 	n/a	Intermediate predominantly large-cell lymphoma	grade IVEB	<ul style="list-style-type: none"> Initial: Abdominal hysterectomy and bilateral salpingo-oophorectomy, 	12 months (alive)	(87)

Garavaglia 2005 Italy	Cas e 1	38 pre- menopausal a	• Asymptomatic	Cervical cytology	Non-Hodgkin's large B- cell lymphoma	IE	<ul style="list-style-type: none"> Secondary: Chemotherapy CHOP - Initial: Chemotherapy CHOP, - 120 months (alive) Secondary: nil 	(88)
	Cas e 2	38 pre- menopausal a	• Asymptomatic	Cervical cytology	DLBCL	IIE	<ul style="list-style-type: none"> Initial: Chemotherapy MACOP-B - 84 months (alive) (methotrexate, adriamycin, cyclophosphamide, vincristine, prednisone, and bleomycin), Secondary: nil 	(88)
	Cas e 3	35 pre- menopausal a	• Abnormal vaginal bleeding (3 months)	Ultrasound pelvis	DLBCL	IIE	<ul style="list-style-type: none"> Initial: Chemotherapy MACOP-B - 72 months (alive) (methotrexate, adriamycin, cyclophosphamide, vincristine, prednisone, and bleomycin), Secondary: Abdominal hysterectomy and bilateral salpingo- oophorectomy and pelvic lymphadenectomy 	(88)
Dursun 2005 Turkey	Cas e 1	51 peri- menopausal a	• Vaginal discharge (24 months)	Radiological evaluation of cervix	Non-Hodgkin's B-cell lymphoma	IE	<ul style="list-style-type: none"> Initial: Chemotherapy CHOP, - 19 months (alive) Secondary: Abdominal 	(89)

	Cas e 2	49 post-menopausal	• Asymptomatic	Cervical cytology	Non-Hodgkin's lymphoma	B-cell	IE	<ul style="list-style-type: none"> Initial: hysterectomy and bilateral salpingo-oophorectomy, Bilateral ovarian transplantation with aortic and renal lymphadenectomy Chemotherapy-epirubicin, cyclophosphamide, vincristine, Secondary: Radiotherapy involved field 	22 months (alive)	(89)
Alameda 2005 Spain	Cas e 1	37 pre-menopausal ^a	• Asymptomatic	Polypectomy	Large lymphoma-like reaction	B-cell	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy CHOP, Secondary: Radiotherapy Cobalt 60 external whole pelvis 	48 months (alive)	(90)
Goker 2005 Turkey	Cas e 1	55 post-menopausal	• Pelvic pain	n/a	Burkitt lymphoma		IE	<ul style="list-style-type: none"> Initial: Chemotherapy - m-CHOP, Secondary: Radiotherapy - Cobalt 60 external whole pelvis 	108 months (deceased)	(91)
Murad 2005 Pakistan	Cas e 1	62 post-menopausal ^a	• Irregular vaginal bleeding (1 month)	MRI pelvis	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Hysterectomy, Secondary: n/a 	n/a	(92)
Heredia 2005 Chile	Cas e 1	32 pre-menopausal ^a	<ul style="list-style-type: none"> Bloody vaginal discharge Post-coital bleeding (2.5 months) 	Cervical biopsy	Mixed small and large B-cell non-Hodgkin's lymphoma		IEA	<ul style="list-style-type: none"> Initial: Supracervical hysterectomy and bilateral salpingo-oophorectomy and omentectomy, 	61 months (alive)	(93)

	Cas e 2	31 pre-menopausal ^a	<ul style="list-style-type: none"> • Vaginal bloody discharge (2 months) 	Colposcopy	Diffuse mixed small and large B-cell non-Hodgkin's lymphoma	IIEA	<ul style="list-style-type: none"> • Secondary: Chemotherapy - R-CHOP • Initial: Chemotherapy - R-CHOP, 15 months (alive) • Secondary: Radiotherapy - external beam pelvis and cervix 	(93)
VanRenterghem 2005 Belgium	Cas e 1	38 pre-menopausal	<ul style="list-style-type: none"> • Heavy menstrual bleeding • Lower abdominal pain • Lower back pain (4 months) 	Transvaginal ultrasound	DLBCL	IIE Bulky disease	<ul style="list-style-type: none"> • Initial: Chemotherapy, 48 months (alive) • Secondary: n/a 	(94)
	Cas e 2	45 peri-menopausal ^a	<ul style="list-style-type: none"> • Malodorous watery vaginal discharge • Vaginal spotting 	Cervical polypectomy	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: Chemotherapy - Cyclophosphamide, epirubicin, Vincristine and Prednisolone, 18 months (alive) • Secondary: n/a 	(94)
Huang 2005 Taiwan	Cas e 1	42 peri-menopausal ^a	<ul style="list-style-type: none"> • Vaginal spotting • Abdominal pain • Nausea • Vomiting (1 week) 	Transabdominal ultrasound	Burkitt's lymphoma	IE	<ul style="list-style-type: none"> • Secondary: n/a • Initial: Chemotherapy - ACVBP (adriamycin, Cyclophosphamide, Vincristine, Bleomycin, Prednisolone) followed by consolidation IV methotrexate, Itostamide VP 16, Ara-C, n/a (deceased) 	(95)
Bellefqih 2006	Cas e 1	23	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> • Secondary: n/a • Initial: Chemotherapy, n/a 	(96)

Gupta 2006 India	Cas e 1	35 pre- menopausal	<ul style="list-style-type: none"> • Irregular vaginal bleeding (24 months) • White discharge (3 months) 	CXR	Extranodal Hodgkin's lymphoma	non- B-cell	IVAE	<ul style="list-style-type: none"> • Initial: abdominal hysterectomy, • Secondary: Chemotherapy - R-CHOP 	Total 24 months (alive)	(99)
Semczuk 2006 Poland	Cas e 1	43 pre- menopausal	<ul style="list-style-type: none"> • n/a 	Ultrasound	High grade Hodgkin's lymphoma	non- B-cell	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy MCP-842 (cyclophosphamide, vincristine, doxorubicin, methotrexate, and cytosine arabinoside), • Secondary: Chemotherapy - (mitoxantrone, cyclophosphamide, vincristine, bleomycin, VP-16) 	10 months (alive)	(100)
Hariprasad 2006 India	Cas e 1	47 peri- menopausal ^a	<ul style="list-style-type: none"> • Irregular vaginal bleeding (2 months) 	CT abdomen and pelvis	DLBCL		IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP (adriamycin omitted due to cardiotoxicity), • Secondary: Radiotherapy 	n/a (alive)	(101)
	Cas e 2	80 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding • Anorexia (9 months) 	CXR	DLBCL		IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: nil 	n/a (alive)	(101)
D cantu de Leon 2006 Mexico	Cas e 1	56 post- menopausal ^a	<ul style="list-style-type: none"> • Lower abdominal pain • Arthralgia • Vaginal bleeding (6 months) 	Colposcopy	DLBCL		IIE	<ul style="list-style-type: none"> • Initial: laparoscopic hysterectomy and bilateral salpingo-oophorectomy, 	Total 6 months (alive)	(102)

								<ul style="list-style-type: none"> • Secondary: Chemotherapy CHOP - 			
Paul 2006 India	Cas e 1	44 peri- menopausal a	<ul style="list-style-type: none"> • Heavy menstrual bleeding (6 months) • Irregular menstruation • Increased vaginal discharge (3 months) (9 months) 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: hysterectomy and bilateral salpingo-oophorectomy, • Secondary: Chemotherapy CHOP - 	Total and	36 months (alive)	(103)	
Wannesson 2006 Canada	Cas e 1	46 peri- menopausal a	<ul style="list-style-type: none"> • Watery vaginal discharge • Vaginal bleeding (3 weeks) • Vaginal bleeding 	Cervical cytology	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	n/a (alive)	(104)		
Bural 2007 USA	Cas e 1	35 pre- menopausal a	<ul style="list-style-type: none"> • Vaginal bleeding 	CT pelvis	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: abdominal hysterectomy 	Total	n/a	(105)	
Cohn 2007 USA	Cas e 1	64 post- menopausal a	<ul style="list-style-type: none"> • Asymptomatic 	CT pelvis	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP with rituximab, • Secondary: nil 	13 months (alive)	(106)		
	Cas e 2	46 peri- menopausal a	<ul style="list-style-type: none"> • Abdominal fullness • Vaginal bleeding • Vaginal discharge (2 months) 	Abdominal and transvaginal ultrasound	DLBCL	IV	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP and rituximab, • Secondary: nil 	24 months (deceased)	(106)		
	Cas e 3	36 pre- menopausal a	<ul style="list-style-type: none"> • Asymptomatic 	Cervical Biopsy	Follicular nodular lymphoma	cutaneous B-cell	IE	<ul style="list-style-type: none"> • Initial: Radiotherapy, • Secondary: nil 	50 months (alive)	(106)	

Signorelli 2007 Italy	Cas e 4	22 pre- menopausal a	<ul style="list-style-type: none"> • Pelvic pressure • Dysmenorrhoea • Abnormal vaginal bleeding 	Ultrasound pelvis	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: Radiotherapy - whole pelvis 	n/a	(106)
	Cas e 1	56 post- menopausal a	• n/a	Cervical biopsy	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP , • Secondary: Radiotherapy - external beam pelvis 	168 months (alive)	(107)
	Cas e 2	29 pre- menopausal	• n/a	Cervical biopsy	DLBCL	IIIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: Cervical conisation, Chemotherapy - CHOP 	130 months (alive)	(107)
	Cas e 3	32 pre- menopausal	• n/a	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - ABVD, • Secondary: n/a 	91 months (alive)	(107)
	Cas e 4	45 peri- menopausal a	• n/a	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: n/a 	38 months (alive)	(107)
	Cas e 5	44 peri- menopausal a	• n/a	Cervical biopsy	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: n/a 	84 months (alive)	(107)
	Cas e 6	46 peri- menopausal a	• n/a	Cervical biopsy	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: n/a 	246 months (alive)	(107)
	Cas e 7	58	• n/a	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: n/a 	228 months (alive)	(107)

		post-menopausal ^a						<ul style="list-style-type: none"> • Secondary: Total abdominal hysterectomy and bilateral salpingo-oophorectomy 			
	Cas e 8	33 pre-menopausal	<ul style="list-style-type: none"> • n/a 	Cervical biopsy	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: 227 months (alive) • Secondary: Total abdominal hysterectomy and bilateral salpingo-oophorectomy 	Chemotherapy - CHOP,		(107)	
	Cas e 9	54 peri-menopausal ^a	<ul style="list-style-type: none"> • n/a 	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> • Initial: 118 months (alive) • Secondary: Radiotherapy - pelvis 	Chemotherapy - CHOP,		(107)	
Korcum 2007 Turkey	Cas e 1	67 post-menopausal	<ul style="list-style-type: none"> • Vaginal bleeding • Back pain (2 months) 	Transvaginal ultrasound	Low-grade follicular non-Hodgkins's lymphoma	IIE	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, • Secondary: Chemotherapy - CHOP 	Radiotherapy - pelvis	n/a (alive)	(108)	
Lorusso 2007 Italy	Cas e 1	29 pre-menopausal	<ul style="list-style-type: none"> • Post-coital bleeding (2 months) 	Cervical biopsy	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, • Secondary: Chemotherapy - CHOP 	Chemotherapy - CHOP	n/a	(109)	
Mihalievic 2007 Serbia	Cas e 1	64 post-menopausal ^a	<ul style="list-style-type: none"> • Malaise • Pyrexia • Weight loss 	Transabdominal ultrasound	Hodgkins Lymphoma nodular sclerosis type	n/a	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and 	Chemotherapy - CHOP	n/a (deceased)	(110)	

Coon 2008 UK	Cas e 1	56 post- menopausal a	<ul style="list-style-type: none"> • Vaginal spotting 	Endometrial and cervical biopsy	Extranodal zone B-cell of mucosa	marginal lymphoma	n/a	<ul style="list-style-type: none"> • Secondary: n/a • Initial: 28 months (alive) 	<ul style="list-style-type: none"> • Secondary: n/a 	<ul style="list-style-type: none"> • Initial: 28 months (alive) 	(111)
AbHamid 2008 Malaysia	Cas e 1	43 pre- menopausal	<ul style="list-style-type: none"> • Prolonged menses (3 months) • Post-coital bleeding (1 month) (4 months) 	Cervical biopsy	DLBCL		IE	<ul style="list-style-type: none"> • Secondary: n/a • Initial: Total n/a (alive) 	<ul style="list-style-type: none"> • Secondary: n/a 	<ul style="list-style-type: none"> • Initial: Total n/a (alive) 	(112)
Okudaira 2008 Japan	Cas e 1	68 post- menopausal	<ul style="list-style-type: none"> • Abnormal vaginal bleeding 	Colposcopy	DLBCL		IIE	<ul style="list-style-type: none"> • Initial: n/a, 60 months (alive) • Secondary: nil 	<ul style="list-style-type: none"> • Secondary: nil 	<ul style="list-style-type: none"> • Initial: n/a, 60 months (alive) 	(113)
Hanprasertpong 2008 Thailand	Cas e 1	25 pre- menopausal a	<ul style="list-style-type: none"> • Post-coital bleeding • Increasing vaginal discharge (2 weeks) 	Cervical biopsy	DLBCL		IE	<ul style="list-style-type: none"> • Initial: 36 months (alive) 	<ul style="list-style-type: none"> • Secondary: nil 	<ul style="list-style-type: none"> • Initial: 36 months (alive) 	(114)
Su 2008 Taiwan	Cas e 1	69 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding (1 month) 	Abdominal ultrasound	DLBCL		IV (post- operative stage)	<ul style="list-style-type: none"> • Initial: nil, 36 months (alive) • Secondary: nil 	<ul style="list-style-type: none"> • Secondary: nil 	<ul style="list-style-type: none"> • Initial: nil, 36 months (alive) 	(115)
Kohler 2008 Brazil	Cas e 1	30 pre- menopausal	<ul style="list-style-type: none"> • Asymptomatic 	Cervical biopsy	Non-Hodgkin's lymphoma type B	B-cell	1E	<ul style="list-style-type: none"> • Initial: 30 months (alive) 	<ul style="list-style-type: none"> • Secondary: Radiotherapy 	<ul style="list-style-type: none"> • Initial: 30 months (alive) 	(116)
	Cas e 2	57 post- menopausal	<ul style="list-style-type: none"> • Foul smelling vaginal discharge (12 months) 	Cervical biopsy	Non-Hodgkin's lymphoma type B	B-cell	1E	<ul style="list-style-type: none"> • Initial: Total 18 months (alive) 	<ul style="list-style-type: none"> • Secondary: Radiotherapy 	<ul style="list-style-type: none"> • Initial: Total 18 months (alive) 	(116)

Demuynck 2009 France	Cas e 1	26 pre- menopausal a	<ul style="list-style-type: none"> Menorrhagia (3 months) 	Transparietal ultrasound pelvis	BCL1-cell lymphoma	IVE	<ul style="list-style-type: none"> bilateral salpingo-oophorectomy, Secondary: Chemotherapy - RCVP (rituximab, cyclophosphamide, vincristine, prednisolone) 	18 months (alive)	(117)
Hanley 2009 USA	Cas e 1	52 peri- menopausal a	<ul style="list-style-type: none"> Abnormal vaginal bleeding 	Ultrasound	DLBCL	IV	<ul style="list-style-type: none"> Initial: Radiotherapy - cervix Chemotherapy - CHOP-R, Secondary: Radiotherapy - pelvis 	n/a (alive)	(118)
	Cas e 2	88 post- menopausal a	<ul style="list-style-type: none"> Asymptomatic 	Cervical cytology	Non-Hodgkin's lymphoma	B-cell n/a	<ul style="list-style-type: none"> Initial: Radiotherapy - pelvis Chemotherapy - CHOP, Secondary: n/a 	n/a (alive)	(118)
Baijal 2009 India	Cas e 1	44 pre- menopausal	<ul style="list-style-type: none"> Vaginal bleeding Foul smelling discharge (2 months) 	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> Initial: Chemotherapy - vincristine, doxorubicin, cyclophosphamide, Secondary: Total abdominal hysterectomy and bilateral salpingo-oophorectomy 	15 months (alive)	(119)
Amna 2009 UK	Cas e 1	46 peri- menopausal a	<ul style="list-style-type: none"> Heavy inter-menstrual bleeding Post-coital bleeding 	Asymptomatic	Follicular non-Hodgkins's lymphoma	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy, Secondary: n/a 	12 months (alive)	(120)

Liu 2009 China	Cas e 1	35 pre- menopausal a	• n/a	n/a	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Surgery, Secondary: n/a 	18 months (alive)	(121)
	Cas e 2	36 pre- menopausal a	• n/a	n/a	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Surgery, Secondary: Chemotherapy 	17 months (alive)	(121)
	Cas e 3	37 pre- menopausal a	• n/a	n/a	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Surgery, Secondary: Chemotherapy CHOP 	12 months (alive)	(121)
Naki 2010 Turkey	Cas e 1	82 post- menopausal	• Vaginal discharge (12 months)	Cervical cytology	DLBCL	IE	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo- oophorectomy, Secondary: Chemotherapy - R- CHOP 	n/a (alive)	(122)
Ustaalioglu 2010 Turkey	Cas e 1	65 post- menopausal	<ul style="list-style-type: none"> Vaginal bleeding Fever Weight loss (4 months) 	Abdominal and transvaginal ultrasound	DLBCL	IEB	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: Radiotherapy - external whole pelvis 	10 months (alive)	(123)
Novotny 2011 USA	Cas e 1	82 post- menopausal	<ul style="list-style-type: none"> Fever Altered mental status Abdominal pain (3 weeks) 	CT pelvis	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: n/a 	0.5 months (deceased)	(124)
Upanal 2011 Australia	Cas e 1	49 peri- menopausal a	<ul style="list-style-type: none"> Abdominal fullness Change to bowel habit Vaginal discharge (3.5 months) 	Transvaginal ultrasound	DLBCL	IEA	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: n/a 	20 months (alive)	(125)

	Cas e 2	51 peri-menopausal ^a	<ul style="list-style-type: none"> Abdominal pain Dyspareunia Difficulty with urination (2 months) 	Transabdominal ultrasound	DLBCL	IIEA	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	19 months (alive)	(125)
Venizelos 2011 Greece	Cas e 1	33 pre-menopausal	<ul style="list-style-type: none"> Vaginal bleeding (2 months) 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	60 months (alive)	(126)
Dyer 2011 France	Cas e 1	27 pre-menopausal	<ul style="list-style-type: none"> Asymptomatic 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	108 months (alive)	(127)
	Cas e 2	23 pre-menopausal	<ul style="list-style-type: none"> Post-coital bleeding (6 months) 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> Initial: nil, Secondary: nil 	60 months (alive)	(127)
Valizadeh 2011 Iran	Cas e 1	45 peri-menopausal ^a	<ul style="list-style-type: none"> Change to vaginal discharge (12 months) Blood-stained vaginal discharge (3 months) (15 months) 	Transabdominal ultrasound	B-cell lymphoproliferative disorder	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Radiotherapy - pelvis 	12 months (alive)	(128)
Kim 2011 South Korea	Cas e 1	57 post-menopausal ^a	<ul style="list-style-type: none"> Weight loss 6kg (12 months) 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Radiotherapy - pelvis 	n/a	(129)
	Cas e 2	53 peri-menopausal ^a	<ul style="list-style-type: none"> Uncomfortable feeling in the abdomen 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: n/a 	n/a	(129)
	Cas e 3	66 post-menopausal ^a	<ul style="list-style-type: none"> Vaginal bleeding and discharge 	Ultrasound pelvis	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: n/a 	n/a	(129)
Chraiet 2012 Tunisia	Cas e 1	62 post-menopausal ^a	<ul style="list-style-type: none"> Postmenopausal bleeding Lower abdominal bleeding 	Ultrasound pelvis	DLBCL	IV	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: nil 	12 months (alive)	(130)

			(1 month)									
	Cas e 2	38 pre-menopausal ^a	<ul style="list-style-type: none"> Menorrhagia Vaginal discharge 	Cervical cytology	DLBCL		IE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: n/a 	120 months (alive)		(130)	
	Cas e 3	34 pre-menopausal ^a	<ul style="list-style-type: none"> Irregular vaginal bleeding pelvic pain (3 months) 	MRI pelvis	DLBCL		IE	<ul style="list-style-type: none"> Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy, Secondary: Chemotherapy - CHOP 	12 months (alive)		(130)	
Park 2012 Korea	Cas e 1	53 post-menopausal	<ul style="list-style-type: none"> Asymptomatic 	Transvaginal ultrasound	High grade non-Hodgkin's lymphoma		IV	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Radiotherapy - external beam pelvis 	n/a		(131)	
Binesh 2012 Iran	Cas e 1	85 post-menopausal	<ul style="list-style-type: none"> Postmenopausal vaginal bleeding (1 month) 	Cervical biopsy	DLBCL		IE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-ACVBP (rituximab, doxorubicin, cyclophosphamide, vindesine, bleomycin, and prednisone), Secondary: nil 	5 months (deceased)		(132)	
Calli 2012 Turkey	Cas e 1	65 post-menopausal	<ul style="list-style-type: none"> Urinary incontinence Menometrorrhagia (1 month) 	Cervical cytology	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Radiotherapy, Secondary: Radiotherapy - field box technique 	n/a (alive)		(133)	
Ramalingam 2012 USA	Cas e 1 ^a	25 pre-menopausal	<ul style="list-style-type: none"> n/a 	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - cyclophosphamide, vinblastine, prednisolone, 	7 months (alive)		(134)	

	Cas e 2	19 pre-menopausal ^a	• n/a	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Secondary: n/a • Initial: n/a • Secondary: Chemotherapy - R-CHOP, high dose methotrexate, cytarabine, Radiotherapy 	n/a	(134)
	Cas e 3	24 pre-menopausal ^a	• n/a	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	21 months (alive)	(134)
	Cas e 4	27 post-menopausal ^a	• n/a	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: Radiotherapy 	n/a (alive)	(134)
	Cas e 5	25 pre-menopausal ^a	• n/a	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	6 months (alive)	(134)
	Cas e 6	19 pre-menopausal ^a	• n/a	Loop electrosurgical excision procedure (LEEP)	Lymphoma-like lesion	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	n/a	(134)
Jastaniyah 2012 Canada	Cas e 1	54 peri-menopausal ^a	• Persistent vaginal bleeding	Endocervical curettage and biopsy	Nodular lymphocyte predominant Hodgkin lymphoma	IIIA	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	18 months (alive)	(135)
Kanaan 2012 Brazil	Cas e 1	80 post-menopausal	<ul style="list-style-type: none"> • Cough • Nausea • Vomiting • Headache • Appetite loss 	Ultrasound	DLBCL	IIIA	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	n/a (deceased)	(136)

Ledwich 2012 USA	Cas e 1	37 pre- menopausal	<ul style="list-style-type: none"> • Vaginal bleeding 	Transvaginal ultrasound	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	26 months (deceased)	(137)
Parnis 2012 Malta	Cas e 1	54 post- menopausal	<ul style="list-style-type: none"> • Postmenopausal bleeding (3 months) 	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	17 months (alive)	(138)
Yalta 2012 Turkey	Cas e 1	56 post- menopausal a	<ul style="list-style-type: none"> • Asymptomatic 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo- oophorectomy and pelvic lymph node dissection, • Secondary: n/a 	n/a	(139)
Yin 2012 China	Cas e 1	17 pre- menopausal	<ul style="list-style-type: none"> • Abdominal pain • Nausea and vomiting (9 months) 	CT abdomen and pelvis	ALK-positive Large B- cell lymphoma	III	<ul style="list-style-type: none"> • Initial: Chemotherapy - E- CHOP (cyclophosphamide, doxorubicin, vincristine, prednisolone, etoposide), • Secondary: Chemotherapy 	4 months (alive)	(140)
Bull 2013 UK	Cas e 1	47 peri- menopausal a	<ul style="list-style-type: none"> • Malodorous discharge brown colour (3 weeks) • Lower abdominal pain (1 week) 	Ultrasound	DLBCL	IIEB	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo- oophorectomy, • Secondary: n/a 	n/a	(141)
Anagnostopoulos 2013 UK	Cas e 1	65 post- menopausal	<ul style="list-style-type: none"> • Asymptomatic 	Transvaginal ultrasound	Low grade follicular lymphoma	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R- CHOP, • Secondary: nil 	15 months (alive)	(142)
Groszmann 2013 USA	Cas e 1	25 pre- menopausal	<ul style="list-style-type: none"> • Vaginal spotting 	Transvaginal ultrasound	Large B- cell non- Hodgkins's lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	12 months (alive)	(143)

Mouhajir 2013 India	Cas e 1	49 peri- menopausal a	<ul style="list-style-type: none"> • Post-coital bleeding (>2 months) • Heavy menstrual bleeding • Post-coital bleeding (8 months) 	Cervical biopsy	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP, • Secondary: Radiotherapy external beam pelvis 	192 - months (alive)	(144)
Santos 2013 Brazil	Cas e 1	41 peri- menopausal a	<ul style="list-style-type: none"> • Vaginal bleeding 	Cervical cytology	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Hysterectomy, • Secondary: nil 	n/a	(145)
Cao 2014 China	Cas e 1	20 pre- menopausal a	<ul style="list-style-type: none"> • n/a 	n/a	DLBCL	IEA	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	84 months (alive)	(146)
	Cas e 2	58 post- menopausal a	<ul style="list-style-type: none"> • n/a 	n/a	DLBCL	IEA+X	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP, • Secondary: nil 	56 - months (alive)	(146)
Bellevicine 2014 Italy	Cas e 1	79 post- menopausal a	<ul style="list-style-type: none"> • Abnormal vaginal bleeding 	Colposcopy	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy CHOP+RT, • Secondary: nil 	n/a	(147)
DeGreve 2014 Belgium	Cas e 1	75 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding • Right groin pain (2 weeks) 	Cervical cytology	High grade diffuse large cell B-cell non- Hodgkin's lymphoma	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: n/a 	20 - months (alive)	(148)
Igwe 2014 USA	Cas e 1	22 pre- menopausal	<ul style="list-style-type: none"> • Left lower extremity oedema • Pelvic pain • Prolonged menses (2 months) 	CT abdomen pelvis	DLBCL	IIE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP', • Secondary: nil 	n/a - (alive)	(149)
Korivi 2014 USA	Cas e 1	43	<ul style="list-style-type: none"> • Asymptomatic 	CT abdomen pelvis	Blastic lymphoma	B-cell n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - EPOCH (etoposide, 	n/a - (alive)	(150)

		peri-menopausal ^a						prednisone, vincristine, cyclophosphamide, and doxorubicin) and immunotherapy ofatumumab, dose reductions of bortezomib and vincristine,			
Mandato 2014 Italy	Case 1	44 peri-menopausal ^a	<ul style="list-style-type: none"> Abnormal vaginal bleeding (1 month) 	Hysteroscopy and endometrial biopsy	Diffuse large B-cell extranodal lymphoma	IVEA	<ul style="list-style-type: none"> Secondary: Radiotherapy - intensity-modulated radiation therapy (IMRT) to cervix 	<ul style="list-style-type: none"> Initial: Vaginal myomectomy, Secondary: Chemotherapy - R-CHOP 	24 months (alive)	(151)	
Rubido 2014 Spain	Case 1	28 Pre-menopausal	<ul style="list-style-type: none"> Dyspareunia Vaginal bleeding (6 months) 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> Secondary: Radiotherapy 	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP Secondary: Chemotherapy - R-CHOP 	120 months (alive)	(152)	
Adachi 2015 Japan	Case 1	69 post-menopausal	<ul style="list-style-type: none"> Lower abdominal discomfort Back pain Sudden haematuria (1 month) 	Cystoscopy	DLBCL	n/a	<ul style="list-style-type: none"> Secondary: Chemotherapy - R-CHOP 	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Chemotherapy - R-CHOP 	36 months (alive)	(153)	
Wang 2015 China	Case 1	54 peri-menopausal ^a	<ul style="list-style-type: none"> Difficulty in micturition 	in Ultrasound	Nasal type NK/T cell lymphoma	n/a	<ul style="list-style-type: none"> Secondary: Nil 	<ul style="list-style-type: none"> Initial: Total laparoscopic hysterectomy and bilateral salpingo-oophorectomy, Secondary: Nil 	n/a	(154)	

Pather 2015 South Africa	Cas e 1	44 peri- menopausal	• Vaginal bleeding	n/a	Plasmablastic lymphom a	n/a	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	2 months (deceased)	(155)
	Cas e 2	35 pre- menopausal	• Vaginal bleeding	n/a	DLBCL	n/a	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	n/a (alive)	(155)
	Cas e 3	69 post- menopausal	• Blood-stained vaginal discharge	n/a	ALK- positive large B- cell lymphoma	n/a	• Initial: Chemotherapy - COP, • Secondary: n/a	n/a (deceased)	(155)
	Cas e 4	34 pre- menopausal	• Vaginal bleeding	n/a	Plasmablastic lymphom a	n/a	• Initial: Chemotherapy CHOP, • Secondary: n/a	0.5 months (deceased)	(155)
	Cas e 5	32 pre- menopausal	• Incidental	n/a	DLBCL	n/a	• Initial: Chemotherapy CHOP, • Secondary: n/a	n/a -	(155)
	Cas e 6	36 pre- menopausal	• Asymptomatic	n/a	Plasmablastic lymphom a	n/a	• Initial: Chemotherapy COP, • Secondary: n/a	n/a -	(155)
Agarwal 2015 India	Cas e 1	55 post- menopausal	• Vaginal mass (6 months) • Abdominal pain (4 months) • Post-menopausal bleeding (20 days) • Dysuria (11 months)	Transabdomina l ultrasound	B-cell lymphoma	n/a	• Initial: n/a, • Secondary: n/a	18 months (alive)	(156)
Kasai 2015 Japan	Cas e 1	67 post- menopausal	• Lower abdominal pain	MRI pelvis	DLBCL	IV	• Initial: n/a, • Secondary: n/a	46 months (alive)	(157)
	Cas e 2	77	• Lower abdominal pain	MRI pelvis	DLBCL	IV	• Initial: abdominal	Total 9 months (alive)	(157)

Bilimoria 2016 USA	Case 1	69 post-menopausal	<ul style="list-style-type: none"> • Postmenopausal vaginal bleeding 	Ultrasound pelvis	DLBCL in a background of follicular lymphoma	n/a	<ul style="list-style-type: none"> • hysterectomy and bilateral salpingo-oophorectomy, • Secondary: nil • Initial: n/a 	n/a	(158)
Dobrosavljevic 2016 Serbia	Case 1	37 pre-menopausal ^a	<ul style="list-style-type: none"> • Inter-menstrual bleeding • Post-coital bleeding (2 months) 	Cervical Cytology	Follicular low grade non-Hodgkin's B-cell lymphoma	IEA	<ul style="list-style-type: none"> • Secondary: nil • Initial: Hysterectomy with bilateral salpingo-oophorectomy, 	12 months (alive)	(159)
Okamura 2016 USA	Case 1	26 pre-menopausal ^a	<ul style="list-style-type: none"> • Asymptomatic 	Cervical Cytology	Atypical lymphoid hyperplasia	n/a	<ul style="list-style-type: none"> • Secondary: nil • Initial: Total hysterectomy, • Secondary: Chemotherapy - R-CHOP 	6 months (alive)	(160)
Fratoni 2016 Italy	Case 1	39 pre-menopausal ^a	<ul style="list-style-type: none"> • Vaginal bleeding 	Colposcopy	DLBCL with a prominent spindle cell component (sarcomatoid variant)	1EA	<ul style="list-style-type: none"> • Initial: Large Loop Excision of the Transformation Zone (LLETZ), • Secondary: Chemotherapy - chlorambucil and immunotherapy with Obinutuzumab 	48 months (alive)	(161)
Hilal 2016 Germany	Case 1	73 post-menopausal ^a	<ul style="list-style-type: none"> • Asymptomatic 	Colposcopy	Extranodal B-Chronic lymphocytic leukaemia	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	n/a	(162)
Omori 2016 Japan	Case 1	65 post-menopausal ^a	<ul style="list-style-type: none"> • Vaginal bleeding (1 month) 	Cervical biopsy	Extranodal nasal type NK/T cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: Chemotherapy - dexamethasone, cytarabine, methotrexate 	4 months (deceased)	(163)

Kabaca 2016 Turkey	Cas e 1	49 peri- menopausal a	<ul style="list-style-type: none"> Asymptomatic 	Cervical biopsy	lymphoma	n/a	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	n/a	(164)
Sharma 2016 India	Cas e 1	61 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding Weight loss 6kg (3 months) 	CT chest abdomen pelvis	DLBCL	IVBEX	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP and etoposide, Secondary: nil 	n/a	(165)
Sun 2016 China	Cas e 1	63 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding 	MRI pelvis	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: n/a 	n/a	(166)
Vijayakumar 2016 USA	Cas e 1	67 post- menopausal	<ul style="list-style-type: none"> Pelvic pain 	Transvaginal ultrasound	Marginal zone B-cell lymphoma or lymphoplasmacytic lymphoma	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, intrathecal methotrexate, Secondary: Radiotherapy - involved field cervix 	28 months (alive)	(167)
	Cas e 2	51 pre- menopausal	<ul style="list-style-type: none"> Pelvic pain and pressure 	Transvaginal ultrasound	DLBCL and Burkitt Lymphoma	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Radiotherapy - involved field cervix 	20 months (deceased)	(167)
	Cas e 3	53 peri- menopausal a	<ul style="list-style-type: none"> Malaise Decreased appetite Weight loss Right sided pelvic pain (1 month) 	CT abdomen pelvis	DLBCL - germinal centre subtype	IE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Radiotherapy - involved field cervix 	n/a (alive)	(167)
	Cas e 4	44 peri- menopausal a	<ul style="list-style-type: none"> Pelvic pain Left leg pain Weight loss (5 months) 	Transvaginal ultrasound	DLBCL	n/a	<ul style="list-style-type: none"> Initial: Surgery, Secondary: Chemotherapy 	n/a	(167)

	Cas e 5	43 peri-menopausal ^a	<ul style="list-style-type: none"> • Heavy menstrual bleeding 	Transvaginal ultrasound	(DLBCL)	n/a	<ul style="list-style-type: none"> • Initial: n/a, • Secondary: n/a 	6 months (alive)	(167)
Yang 2016 USA	Cas e 1	69 post-menopausal	<ul style="list-style-type: none"> • Irritative urinary voiding • Microhaematuria 	Transvaginal ultrasound	High grade B-cell lymphoma	n/a	<ul style="list-style-type: none"> • Initial: Total abdominal hysterectomy and bilateral salpingo-oophorectomy and pelvic lymph node dissection, • Secondary: Chemotherapy - rituximab, bendamustine 	n/a	(168)
Regalo 2016 Portugal	Cas e 1	40 pre-menopausal	<ul style="list-style-type: none"> • Right lower extremity pain and swelling 	Imaging- does not define type	Large B-cell lymphoma non-Hodgkin's	IIE	<ul style="list-style-type: none"> • Initial: Surgery, • Secondary: Chemotherapy - R-CHOP, Radiotherapy 	48 months (alive)	(169)
Singh 2016 India	Cas e 1	34 pre-menopausal	<ul style="list-style-type: none"> • Abdominal pain (3 months) 	CT abdomen pelvis	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Laparoscopic bilateral salpingo-oophorectomy, • Secondary: Chemotherapy - R-CHOP, Radiotherapy 	60 months (alive)	(170)
	Cas e 2	77 post-menopausal	<ul style="list-style-type: none"> • Fever • Abdominal pain 	CT Abdomen pelvis with contrast	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: n/a 	36 months (alive)	(170)
Srivastava 2016 India	Cas e 1	27 pre-menopausal	<ul style="list-style-type: none"> • Severe abdominal pain and swelling (20 days) 	Ultrasound	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: n/a 	4 months (alive)	(171)
Liu 2016 USA	Cas e 1	47 peri-menopausal ^a	<ul style="list-style-type: none"> • Heavy menstrual bleeding 	Large loop excision of transformation zone	DLBCL and follicular lymphoma	IIIB	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: n/a 	n/a	(172)

Zhou 2016 China	Cas e 1	31 pre- menopausal	<ul style="list-style-type: none"> Menolipsis (8 weeks) 	Transvaginal ultrasound	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, n/a (alive) (173) Secondary: n/a
Kosari 2017 Iran	Cas e 1	49 peri- menopausal a	<ul style="list-style-type: none"> Vaginal bleeding (2 months) 	CT pelvis	Peripheral lymphoma Hodgkin's NOS type	T-cell non- lymphoma	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- gemcitabine, dexamethasone, cisplatin (GDP), 5 months (deceased) (174) Secondary: Chemotherapy - etoposide, ifosfamide, cisplatin, Radiotherapy
Yang 2017 USA	Cas e 1	69 post- menopausal a	<ul style="list-style-type: none"> Irritative urinary voiding Microhaematuria 	Urine cytology	High grade lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP rituximab, cyclophosphamide, doxorubicin, vincristine, prednisone, n/a (175) Secondary: n/a
Azarhoush 2017 Iran	Cas e 1	43 peri- menopausal a	<ul style="list-style-type: none"> Vaginal bleeding vaginal discharge 	Ultrasound	High grade lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, 24 months (alive) (176) Secondary: Chemotherapy - R- CHOP
Chen 2017 China	Cas e 1	36 pre- menopausal	<ul style="list-style-type: none"> Irregular vaginal bleeding (4 months) 	CT pelvis	Extranasal natural killer (NK)/T-cell lymphoma		IIB	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, 15 months (deceased) (177) Secondary: Radiotherapy
Cubo 2017 Spain	Cas e 1	51 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding (1 month) 	Cervical biopsy	DLBCL		IE	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, 24 months (alive) (178) Secondary: nil

Roberts 2018 USA	Cas e 1	55 pre- menopausal	<ul style="list-style-type: none"> Daily spotting (3 months) leading to heavy vaginal bleeding (1 month) (4 months) 	Transvaginal ultrasound	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: n/a 	36 months (alive)	(179)
Koyanagi 2018 Japan	Cas e 1	74 post- menopausal	<ul style="list-style-type: none"> Asymptomatic 	Transvaginal ultrasound	DLBCL		IIEA	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Laparoscopic hysterectomy with bilateral salpingo-oophorectomy 	n/a (alive)	(180)
Seresht 2018 Iran	Cas e 1	31 pre- menopausal	<ul style="list-style-type: none"> Abnormal uterine bleeding (6 months) 	Ultrasound	Non-Hodgkins lymphoma	B-cell	IE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: n/a 	18 months (alive)	(181)
Bolandi 2019 Iran	Cas e 1	31 pre- menopausal a	<ul style="list-style-type: none"> Abnormal uterine bleeding 	Ultrasound	Non-Hodgkin's lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: nil 	n/a (alive)	(182)
Gui 2019 China	Cas e 1	65 post- menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding (2 weeks) 	Cervical biopsy	DLBCL		IIEA	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: Chemotherapy - R-CHOP 	35 months (alive)	(183)
Heremans 2019 Belgium	Cas e 1	42 peri- menopausal a	<ul style="list-style-type: none"> Irregular vaginal bleeding 	Transvaginal ultrasound	High grade non- Hodgkin's lymphoma		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy, Secondary: n/a 	n/a	(184)
Needs 2019 USA	Cas e 1	38 pre- menopausal	<ul style="list-style-type: none"> Heavy menstrual bleeding Inter-menstrual bleeding (12 months) 	Cervical cytology	DLBCL		n/a	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	n/a	(185)

Wilkie 2019 USA	Cas e 1	15 pre- menopausal	<ul style="list-style-type: none"> • Heavy vaginal bleeding (6 weeks) 	Transvaginal ultrasound	Burkitt Lymphoma	n/a	<ul style="list-style-type: none"> • Initial: COCP • Secondary: Chemotherapy 	3 months (alive)	(186)
Costa 2020 UK	Cas e 1	54 post- menopausal	<ul style="list-style-type: none"> • Feeling of vaginal mass tender to touch • Fever • Chills • Night sweats • Intermittent lower left abdominal pain (2 weeks) • Weight loss (1 year) 	Cervical biopsy	DLBCL	n/a	<ul style="list-style-type: none"> • Initial: Chemotherapy - EPOCH-R, • Secondary: Chemotherapy - R-CODOX-M with IVAC and methotrexate 	4 months (alive)	(187)
Del 2020 France	Cas e 1	36 pre- menopausal ^a	<ul style="list-style-type: none"> • Vaginal bleeding • Pelvic pain • Dysuria • Asthenia (2 weeks) 	Transvaginal ultrasound	DLBCL	IV	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP (Rituximab, Cyclophosphamide, Hydroxydaunorubicin, Vincristine, and Prednisone, • Secondary: Chemotherapy - high dose methotrexate 	15 months (alive)	(188)
Goda 2020 India	Cas e 1	52 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding (2 months) 	Histology	DLBCL	IAE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: Radiotherapy involved field 	18 months (alive)	(189)
	Cas e 2	50 post- menopausal	<ul style="list-style-type: none"> • Post-menopausal bleeding 	n/a	DLBCL	IE	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: Radiotherapy involved field 	43 months (alive)	(189)

	Cas e 3	39 pre-menopausal a	<ul style="list-style-type: none"> Foul smelling discharge (9 months) 	n/a		DLBCL		<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: Radiotherapy involved field - 	8 months (alive)	(189)
	Cas e 4	62 post-menopausal	<ul style="list-style-type: none"> Post-menopausal bleeding (5 months) 	n/a		DLBCL		<ul style="list-style-type: none"> Initial: Chemotherapy - R- CEOP, Secondary: Radiotherapy involved field - 	10 months (alive)	(189)
SelviDemirtas 2020 Turkey	Cas e 1 a	46 peri-menopausal a	<ul style="list-style-type: none"> Vaginal bleeding 	Cervical biopsy		DLBCL	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: n/a 	n/a	(190)
Liu 2020 China	Cas e 1	74 post-menopausal	<ul style="list-style-type: none"> Fever expectoration (2 weeks) Night sweats Low mood Weight loss 4kg (12 months) (13 months) 	CT		DLBCL	IVB	<ul style="list-style-type: none"> Initial: Chemotherapy - ifosfamide, carboplatin, etoposide, Secondary: Allogenic stem cell transplant 	n/a (alive)	(191)
MohammedSaeed 2020 USA	Cas e 1	50 post-menopausal	<ul style="list-style-type: none"> Symptomatic anaemia Abdominal pain Abnormal vaginal bleeding 	Left inguinal lymph node biopsy	Nodular sclerosis classical lymphoma involving cervix		n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: n/a 	12 months (deceased)	(192)
Murata 2020 Japan	Cas e 1 a	50 peri-menopausal a	<ul style="list-style-type: none"> Asymptomatic 	Cervical cytology	Spindle cell variant large B-cell lymphoma		IV	<ul style="list-style-type: none"> Initial: Chemotherapy - R- CHOP, Secondary: n/a 	6 months (alive)	(193)
	Cas e 2 a	46 peri-menopausal a	<ul style="list-style-type: none"> Abnormal vaginal bleeding 	Cervical cytology	Spindle cell variant large B-cell lymphoma		IV	<ul style="list-style-type: none"> Initial: Chemotherapy - cyclophosphamide, adriamycin, 	42 months (alive)	(193)

Yoshida 2020 Japan	Cas e 1	47 peri- menopausal a	<ul style="list-style-type: none"> Atypical vaginal bleeding 	Transvaginal ultrasound	DLBCL		IIEA	<ul style="list-style-type: none"> vincristine, prednisone, Secondary: Radiotherapy - external beam pelvis Initial: 36 months (alive) Chemotherapy - R-CHOP, Secondary: n/a 		(194)
Akkour 2021 Saudi Arabia	Cas e 1	54 peri- menopausal a	<ul style="list-style-type: none"> Abnormal vaginal bleeding Pelvic pain (1 month) 	MRI pelvis	DLBCL		IE	<ul style="list-style-type: none"> Initial: 24 months (alive) Chemotherapy - R-CHOP, Secondary: Radiotherapy 		(195)
Crespo 2021 Spain	Cas e 1	83 post- menopausal a	<ul style="list-style-type: none"> Vaginal bleeding 	Transvaginal ultrasound	Non-Hodgkin's lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: n/a Chemotherapy - R-CHOP, Secondary: Radiotherapy - humerus and pelvis 		(196)
Desana 2021 Italy	Cas e 1	54 post- menopausal	<ul style="list-style-type: none"> Asymptomatic 	Transvaginal ultrasound	DLBCL		n/a	<ul style="list-style-type: none"> Initial: Embolization of uterine arteries, Secondary: Chemotherapy 	n/a	(197)
Pons 2021 Spain	Cas e 1	48 peri- menopausal a	<ul style="list-style-type: none"> Bleeding during intercourse (1 month) 	Cervical biopsy	DLBCL		IE	<ul style="list-style-type: none"> Initial: Laparotomic bilateral hysterectomy with salpingectomy with lymphadenectomy, Secondary: Chemotherapy - R-CHOP 	n/a	(198)
Birge 2021 Turkey	Cas e 1	40 peri- menopausal a	<ul style="list-style-type: none"> Post-coital bleeding Dyspareunia Watery vaginal discharge with foul odour 	Cervical biopsy	High grade lymphoma	B-cell	n/a	<ul style="list-style-type: none"> Initial: Nil, Secondary: n/a 	10 months (alive)	(199)

Kim 2021 Korea	Cas e 1	81 post- menopausal	• Vaginal bleeding (3 months)	Tele- cervicography	DLBCL	n/a	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	n/a	(200)
Sasaki 2021 Japan	Cas e 1	77 post- menopausal a	• Abdominal pain	CT abdomen pelvis	DLBCL	FIGO IV	• Initial: Chemotherapy – R- THP-COP • Secondary: nil	13 months (alive)	(201)
Shim 2021 South Korea	Cas e 1	84 post- menopausal	• Vaginal bleeding • Difficulty urinating	CT abdomen pelvis	B-cell non-Hodgkin lymphoma- double hit subtype	IVA	• Initial: Chemotherapy - R- CHOP, • Secondary: Radiotherapy	n/a (alive)	(202)
Capsa 2022 Switzerland	Cas e 1	75 post- menopausal a	• Significant vaginal bleeding	Cervical biopsy	DLBCL	IE	• Initial: Chemotherapy - R- CHOP, • Secondary: nil	29 months (alive)	(203)
Stabile 2022 Switzerland	Cas e 1	83 post- menopausal	• Vaginal bleeding	Transvaginal ultrasound	DLBCL	IEA	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	60 months (alive)	(204)
Saksena 2022 USA	Cas e 1	44 peri- menopausal a	• Heavy menstrual bleeding	Histology from vaginal hysterectomy	DLBCL	n/a	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	10 months (alive)	(205)
	Cas e 2	43 peri- menopausal a	• Asymptomatic	Histology from hysterectomy	B- cell lymphoma - not otherwise specified	n/a	• Initial: Chemotherapy - CHOP, • Secondary: nil	n/a (alive)	(205)
	Cas e 3	36 pre- menopausal	• Asymptomatic	Endocervical curettage and biopsy	DLBCL	n/a	• Initial: Chemotherapy - R- CHOP, • Secondary: n/a	58 months (alive)	(205)
	Cas e 4	48 peri- menopausal a	• Gynaecological symptoms	Histology from hysterectomy	DLBCL	n/a	• Initial: Large Loop Excision of the Transformation Zone (LLETZ),	204 months (alive)	(205)

	Cas e 5	46 peri-menopausal ^a	<ul style="list-style-type: none"> Abnormal vaginal bleeding post-hysterectomy (24 months) 	Histology from trachelectomy	DLBCL	n/a	<ul style="list-style-type: none"> Secondary: Chemotherapy - R-CHOP Initial: Hysterectomy, Secondary: n/a 	93 months (alive)	(205)
	Cas e 6	37 pre-menopausal	<ul style="list-style-type: none"> Abnormal vaginal bleeding 	Cervical cone biopsy	Grade 3 Follicular diffuse large B-cell lymphoma	n/a	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	132 months (alive)	(205)
Alameh 2022 Iran	Cas e 1	41 peri-menopausal ^a	<ul style="list-style-type: none"> Pelvic discomfort Abnormal vaginal discharge Dyspareunia (3 months) 	Cervical cytology	DLBCL	IE	<ul style="list-style-type: none"> Initial: Loop electrosurgical procedure and rituximab, Secondary: n/a 	60 months (alive)	(206)
Aminimoghaddam 2022 Iran	Cas e 1	38 pre-menopausal	<ul style="list-style-type: none"> Post-coital bleeding (6 months) 	Cervical biopsy	DLBCL	IE	<ul style="list-style-type: none"> Initial: Hysterectomy, Secondary: n/a 	n/a (alive)	(207)
	Cas e 2	30 pre-menopausal	<ul style="list-style-type: none"> Post-coital bleeding (12 months) Heavy vaginal discharge (1 month) (13 months) 	Cervical biopsy	DLBCL	IIE	<ul style="list-style-type: none"> Initial: n/a, Secondary: n/a 	12 months (alive)	(207)
Li 2022 China	Cas e 1	71 post-menopausal	<ul style="list-style-type: none"> Dysuria (2 months) 	Cervical cytology	DLBCL	IV	<ul style="list-style-type: none"> Initial: Hysterectomy, Secondary: n/a 	n/a (deceased)	(208)
Rodić 2022 Serbia	Cas e 1	35 pre-menopausal ^a	<ul style="list-style-type: none"> Asymptomatic 	Endocervical curettage and biopsy	DLBCL - centroblastic germinal centre like (GCB) subtype	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - cyclophosphamide, etoposide, steroids, Secondary: n/a 	4 months (alive)	(209)
Weng 2022 China	Cas e 1	63 post-menopausal ^a	<ul style="list-style-type: none"> Abnormal vaginal discharge (20 days) 	n/a	DLBCL	FIGO IA	<ul style="list-style-type: none"> Initial: Complete surgical excision of the mass, 	89 months (deceased)	(210)

Cas e 2	55 peri- menopausal a	• Asymptomatic (1 month)	n/a	DLBCL	FIGO IA	<ul style="list-style-type: none"> • Secondary: Radiotherapy • Initial: Surgery, • Secondary: Radiotherapy, Chemotherapy-CHOP 	76 months (alive)	(210)
Cas e 3	39 pre- menopausal	• Abnormal vaginal bleeding (2 months)	n/a	DLBCL	FIGO IVA	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: n/a 	n/a	(210)
Cas e 4	26 pre- menopausal	• Abnormal vaginal bleeding (2 months)	n/a	DLBCL	FIGO IA	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	n/a	(210)
Cas e 5	42 peri- menopausal a	• Abnormal vaginal bleeding (2 months)	n/a	DLBCL	FIGO IA	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	156 months (alive)	(210)
Cas e 6	30 pre- menopausal	• Abnormal vaginal bleeding (1 month)	n/a	DLBCL	FIGO IA	<ul style="list-style-type: none"> • Initial: Chemotherapy - R-CHOP, • Secondary: Surgery 	132 months (alive)	(210)
Cas e 7	56 post- menopausal a	• Abnormal vaginal bleeding (3 months)	n/a	DLBCL	FIGO IB	<ul style="list-style-type: none"> • Initial: Chemotherapy - CHOP, • Secondary: Chemotherapy - Ifosfamide, methotrexate, Surgery 	n/a	(210)
Cas e 8	49 peri- menopausal a	• Abnormal vaginal bleeding (1 month)	n/a	DLBCL	FIGO IIA	<ul style="list-style-type: none"> • Initial: Surgery, • Secondary: Chemotherapy 	4 months (deceased)	(210)
Cas e 9	73 post- menopausal a	• Abnormal vaginal bleeding (1 month)	n/a	DLBCL	FIGO IIA	<ul style="list-style-type: none"> • Initial: Chemotherapy, • Secondary: n/a 	31 months (deceased)	(210)

	Cas e 10	65 post-menopausal _a	<ul style="list-style-type: none"> Abdominal pain (1 month) 	n/a		DLBCL)	FIGOIV B	<ul style="list-style-type: none"> Initial: Chemotherapy, Secondary: Radiotherapy 	101 months (alive)	(210)
	Cas e 11	67 post-menopausal _a	<ul style="list-style-type: none"> Abdominal pain (12 months) 	n/a		Mantle cell lymphoma - blastoid variant	FIGO IVA	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: n/a 	33 months (deceased)	(210)
	Cas e 12	22 pre-menopausal	<ul style="list-style-type: none"> Abdominal pain (1 month) 	n/a		DLBCL	FIGO IA	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Chemotherapy - etoposide, doxorubicin, cyclophosphamide, vincristine, prednisolone 	45 months (alive)	(210)
	Cas e 13	74 post-menopausal _a	<ul style="list-style-type: none"> Abnormal vaginal bleeding (1 month) 	n/a		DLBCL	FIGO IA	<ul style="list-style-type: none"> Initial: Chemotherapy - CHOP, Secondary: Radiotherapy 	14 months (alive)	(210)
Seal 2022 India	Cas e 1	47 peri-menopausal _a	<ul style="list-style-type: none"> Fever (15 days) Weakness left lower limb Right sided deviation of mouth (1 day) Abnormal vaginal bleeding (15 days) 	Transabdominal ultrasound		Extranodal peripheral T-cell lymphoma	n/a	<ul style="list-style-type: none"> Initial: Radiotherapy, Secondary: n/a 	n/a (deceased)	(211)
Shi 2023 China	Cas e 1	34 pre-menopausal _a	<ul style="list-style-type: none"> Yellow leucorrhoea 	Colposcopy		Atypical lymphoid hyperplasia	n/a	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP, Secondary: nil 	6 months (alive)	(212)

Gao 2023 China	Cas e 1	66 post- menopausal	• Haematuria	n/a	DLBCL	IVE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-CHOP Secondary: Radiotherapy external beam 	8 months (deceased)	(213)
	Cas e 2	72 post- menopausal	• Back pain	n/a	DLBCL	IE	<ul style="list-style-type: none"> Initial: abdominal hysterectomy and bilateral salpingo-oophorectomy and pelvic and para-aortic lymphadenectomy, Secondary: Chemotherapy - R-EPOCH (rituximab, etoposide, prednisone, vincristine, cyclophosphamide, and hydroxydaunorubicin) 	Total 97 months (alive)	(213)
	Cas e 3	56 post- menopausal	• Abdominal pain	n/a	DLBCL	IVE	<ul style="list-style-type: none"> Initial: nil, Secondary: nil 	12 months (alive)	(213)
	Cas e 4	62 post- menopausal	• Asymptomatic	n/a	DLBCL	IVE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-hyperCVAD (cyclophosphamide, vincristine, adriamycin, and dexamethasone), Secondary: nil 	1.5 month (deceased)	(213)
	Cas e 5	31	• Lower limb pain	n/a	Burkitt lymphoma	IVE	<ul style="list-style-type: none"> Initial: Chemotherapy - R-MA and CVP-R, 	6 months (alive)	(213)

	pre-menopausal ^a					• Secondary: nil		
Cas e 6	58 post-menopausal ^a	• Back pain	n/a	DLBCL	IVE	• Initial: Chemotherapy - R-CHOP (4 with Ara-C + dexamethasone intrathecal injection),	27 months (alive)	(213)
Cas e 7	71 post-menopausal ^a	• Abnormal uterine bleeding	n/a	DLBCL	IVE	• Secondary: nil • Initial: Chemotherapy - R-CHOP (Ara-C + 4 methotrexate intrathecal injections)	38 months (deceased)	(213)
Cas e 8	58 post-menopausal ^a	• Abnormal uterine bleeding	n/a	DLBCL	IE	• Secondary: nil • Initial: Loop electrosurgical excision procedure	88 months (alive)	(213)
						• Secondary: n/a		

^aStudies that did not clarify menopausal status, but was inferred using the patient age; patients younger than 45 years old were defined as pre-menopausal, those aged 45-55 years old were defined as peri-menopausal, and those older than 55 years were defined as post-menopausal. CT, computerised tomography; DLBCL, diffuse large B-cell lymphoma; MRI, magnetic resonance imaging; n/a: not available. ACVBP, doxorubicin, bleomycin, vinblastine, and dacarbazine; RCVP, rituximab, cyclophosphamide, vincristine; ECHOP, cyclophosphamide, doxorubicin, vincristine, etoposide, prednisolone; GDP, gemcitabine, dexamethasone, and cisplatin; R-THP-COP, tetrahydropyranil adriamycin, cyclophosphamide, vincristine, prednisone; CHOP, cyclophosphamide, doxorubicin, vincristine, prednisone; R-CHOP, rituximab, cyclophosphamide, doxorubicin, vincristine, prednisone; F-MACOP, 5-fluorouracil, methotrexate with leucovorin rescue, cytarabine, cyclophosphamide, vincristine, and prednisone; CycLOBEAP, cyclophosphamide, vincristine, bleomycin, etoposide, doxorubicin, prednisolone; CHOP-MTX, cyclophosphamide, doxorubicin, vincristine, prednisone, methotrexate; pro-MACE-Cyto-BOM, cyclophosphamide, doxorubicin, etoposide cytozar, bleomycin, vincristine, methotrexate and prednisone; CEOP, cyclophosphamide, etoposide, prednisolone, vincristine; COP, cyclophosphamide, vincristine, prednisone.

Table SII. Summary of characteristics of the included cases.

Variable	Value
Age (data available for 339 patients), years	
Mean	48.5
Median	46
Range	15-88
Symptoms (data available for 318 patients), n (%)	
Vaginal bleeding (all types)	189/318 (59.4)
Post-coital bleeding	33/318 (10.4)
Intermenstrual bleeding	12/318 (3.8)
Vaginal spotting	8/318 (2.5)
Vaginal discharge (all types)	44/318 (13.8)
Abdominal pain	34/318 (10.7)
Pelvic pain	12/318 (3.8)
“B” symptoms	28/318 (8.8)
Asymptomatic	42/318 (13.2)
1st diagnostic modality used (data available for 278 patients), n (%)	
Cervical biopsy	78/278 (28.1)
Ultrasound	59/278 (21.2)
Cervical cytology	56/278 (20.1)
Computerised tomography	24/278 (8.6)
Positive histological markers (data available for 136 patients), n (%)	
CD3	61/136 (44.9)
CD5	29/136 (21.3)
CD10	48/136 (35.3)
CD20	15/136 (11)
Cyclin D1	34/136 (25)
BCL-2	16/136 (11.8)
Ki-67 (>80%)	0 (0)
Staging – Ann Arbour (data available for 179 patients), n (%)	
I	93/179 (52)
II	47/179 (26.3)
III	8/179 (4.5)
IV	29/179 (16.2)
Metastasis at time of diagnosis (data available for 245 patients), n (%)	

Yes	26/245 (10.6)
No	219/245 (89.4)
Lymphoma types (data available for 339 patients)	
Non-Hodgkin's	265/339 (78.2)
Hodgkin's	5/339 (1.5)
B-cell	252/339 (74.3)
T-cell	8/339 (2.4)
Recurrence (data available for 225 patients)	
Yes	120/225 (53.3)
No	105/225 (46.7)
Outcome (data available for 279 patients)	
Alive	233/279 (83.2)
Deceased	46/279 (16.5)

Table SIII. Summary of therapeutic approaches utilised for the included patients (data available for 309 patients).

Approach	Rate	%
Surgery (all types, data available for 115 patients)		
Hysterectomy & lymphadenectomy	23/115	20.0
Cervical conisation	10/115	9.1
Embolization	3/115	2.6
Surgery type not specified	14/115	12.2
Types of hysterectomy (data available for 85 patients)		
Radical hysterectomy	9/85	10.6
Total hysterectomy	58/85	68.2
Unknown type of hysterectomy	18/85	21.2
Neo-adjuvant (data available for 19 patients)		
Chemotherapy	15/19	78.9
Radiotherapy	4/19	21.1
Adjuvant (data available for 62 patients)		
Chemotherapy	35/62	56.5
Radiotherapy	18/62	29.0
Chemotherapy only	109/194	56.2
Radiotherapy only	23/194	11.9
Chemotherapy & Radiotherapy	62/194	32.0

Table SIV. Management trends over time.

Decades	Surgery only	Chemotherapy only	Radiotherapy only	Chemo-radiotherapy only	Adjuvant Chemotherapy	Adjuvant radiotherapy	Adjuvant chemo-radiotherapy	Neoadjuvant chemotherapy	Neoadjuvant radiotherapy
1964-1973	0	0	1	0	0	1	0	0	1
1974-1983	0	0	2	1	0	1	0	0	1
1984-1993	6	4	11	8	4	9	0	0	2
1994-2003	11	22	5	13	7	4	6	3	0
2004-2013	8	32	3	23	14	2	0	9	0
2014-2023	9	51	1	17	10	1	3	3	0
Sum	34	109	23	62	35	18	9	15	4

Quattrini, 2003	○	●	●	●	●	●	●	○	(83)
Sun, 2003	○	○	●	○	○	○	○	●	(84)
Thyagarajan, 2004	○	●	●	●	●	●	○	●	(85)
Alameda, 2005	○	○	●	●	○	○	○	●	(90)
Goker, 2005	○	●	●	●	●	●	○	●	(91)
Murad, 2005	●	●	●	●	○	○	○	●	(92)
Huang, 2005	○	●	●	●	●	●	●	●	(95)
Bellefqih, 2006	○	○	●	●	○	○	○	●	(96)
González-Cejudo, 2006	○	○	●	●	●	●	○	●	(98)
Gupta, 2006	○	●	●	●	●	●	○	●	(99)
Semczuk, 2006	○	●	●	●	●	●	○	●	(100)
D cantu de Leon, 2006	●	●	●	●	●	●	○	●	(102)
Paul, 2006	●	●	●	●	●	●	○	●	(103)
Wannesson, 2006	○	●	●	●	●	○	○	●	(104)
Bural, 2007	○	○	●	●	●	●	○	○	(105)
Korcum, 2007	●	●	●	●	●	●	○	●	(108)
Lorusso, 2007	○	●	●	●	●	●	●	●	(109)
Mihalievic, 2007	○	●	●	●	●	○	○	●	(110)
Coon, 2008	○	○	●	●	●	●	○	●	(111)
AbHamid, 2008	●	●	●	●	●	●	●	●	(112)
Okudaira, 2008	○	○	●	●	●	●	○	●	(113)
Hanprasertpong, 2008	●	●	●	●	●	●	●	●	(114)
Su, 2008	●	●	●	●	●	●	○	●	(115)
Demuynck, 2009	●	●	●	●	●	●	○	●	(117)
Bajjal, 2009	●	●	●	●	●	●	●	●	(119)
Amna, 2009	●	●	●	●	●	●	○	●	(120)
Naki, 2010	●	●	●	●	●	●	○	●	(122)
Ustaalioglu, 2010	○	●	●	●	●	●	●	●	(123)
Novotny, 2011	●	●	●	●	●	○	○	●	(124)
Venizelos, 2011	○	●	●	●	●	●	○	●	(126)
Valizadeh, 2011	●	●	●	●	●	●	●	●	(128)
Park, 2012	●	●	●	●	○	○	○	●	(131)
Binesh, 2012	●	●	●	●	●	●	○	●	(132)
Calli, 2012	●	●	●	●	●	●	○	●	(133)
Jastaniyah, 2012	●	●	●	●	●	●	●	●	(135)
Kanaan, 2012	○	○	●	●	●	●	●	●	(136)
Ledwich, 2012	○	●	●	●	●	●	○	●	(137)
Parnis, 2012	●	●	●	●	●	●	●	●	(138)
Yalta, 2012	○	●	●	●	○	○	○	●	(139)
Yin, 2012	●	●	●	●	○	○	○	●	(140)
Bull, 2013	●	●	●	●	●	●	○	●	(141)
Anagnostopoulos, 2013	○	●	●	●	●	●	○	●	(142)
Groszmann, 2013	○	●	●	●	●	●	○	●	(143)
Mouhajir, 2013	○	●	●	●	●	●	○	●	(144)
Santos, 2013	○	●	●	○	●	●	○	●	(145)
Bellevicine, 2014	●	○	●	●	○	○	○	●	(147)
DeGreve, 2014	●	●	●	●	●	●	○	●	(148)
Igwe, 2014	●	●	●	●	●	●	○	●	(149)
Korivi, 2014	●	●	●	●	●	○	●	●	(150)
Mandato, 2014	○	●	●	●	●	●	○	●	(151)
Adachi, 2015	○	●	●	●	●	●	○	●	(153)
Wang, 2015	○	●	●	●	●	●	○	●	(154)
Agarwal, 2015	●	●	●	●	●	●	○	●	(156)
Bilimoria, 2016	○	○	●	●	●	●	○	●	(158)
Dobrosavljevic, 2016	●	●	●	●	●	●	○	●	(159)
Okamura, 2016	○	○	●	●	○	●	○	●	(160)
Fratoni, 2016	●	●	●	○	●	○	○	●	(161)
Hilal, 2016	○	●	●	●	●	○	○	●	(162)

Omori, 2016	●	●	●	●	●	●	○	●	(163)
Kabaca, 2016	○	○	●	●	●	○	○	●	(164)
Sharma, 2016	○	●	●	●	●	○	●	●	(165)
Sun, 2016	○	○	●	●	○	○	○	○	(166)
Yang, 2016	●	●	●	●	●	○	○	●	(168)
Regalo, 2016	○	●	●	●	●	●	○	●	(169)
Srivastava, 2016	●	●	●	●	●	●	○	●	(171)
Liu, 2016	○	●	●	●	●	●	○	●	(172)
Zhou, 2016	○	●	●	●	○	○	○	●	(173)
Kosari, 2017	●	●	●	●	●	●	●	●	(174)
Yang, 2017	○	●	●	●	●	○	○	●	(175)
Azarhoush, 2017	○	○	●	●	●	●	○	●	(176)
Chen, 2017	●	●	●	●	●	●	●	●	(177)
Cubo, 2017	○	●	●	●	●	●	○	●	(178)
Roberts, 2018	○	●	●	●	●	●	○	●	(179)
Koyanagi, 2018	●	●	●	●	●	●	○	●	(180)
Seresht, 2018	○	●	●	●	●	●	○	●	(181)
Bolandi, 2019	○	●	●	○	●	●	○	●	(182)
Gui, 2019	○	●	●	●	●	●	○	●	(183)
Heremans, 2019	○	●	●	●	●	○	○	●	(184)
Needs, 2019	●	●	●	●	○	○	○	●	(185)
Wilkie, 2019	●	●	●	●	●	●	○	●	(186)
Costa, 2020	●	●	●	●	●	●	●	●	(187)
Del, 2020	●	●	●	●	●	●	○	●	(188)
SelviDemirtas, 2020	○	○	●	●	●	●	○	●	(190)
Liu, 2020	●	●	●	●	●	●	○	●	(191)
MohammedSaeed, 2020	●	●	●	●	●	●	●	●	(192)
Yoshida, 2020	●	○	●	●	●	●	●	●	(194)
Akkour, 2021	●	●	●	●	●	●	○	●	(195)
Crespo, 2021	○	○	●	●	○	○	○	●	(196)
Desana, 2021	○	●	●	●	●	○	○	●	(197)
Pons, 2021	●	●	●	●	●	○	○	●	(198)
BirgeÄ, 2021	○	●	●	●	●	●	○	●	(199)
Kim, 2021	●	●	●	●	●	○	○	●	(200)
Shim, 2021	●	●	●	●	●	●	○	●	(202)
Capsa, 2022	○	●	●	●	●	●	○	●	(203)
Stabile, 2022	●	●	●	●	●	●	○	●	(204)
Alameh, 2022	●	●	●	●	●	●	○	●	(206)
Li, 2022	●	●	●	●	●	●	○	●	(208)
Rodić, 2022	○	○	●	●	●	●	○	●	(209)
Seal, 2022	○	●	●	●	●	●	●	●	(211)
Shi, 2023	○	○	●	●	●	●	○	●	(212)

Q1: Were patient's demographic characteristics clearly described?; Q2: Was the patient's history clearly described and presented as a timeline? Q3: Was the current clinical condition of the patient on presentation clearly described?; Q4: Were diagnostic tests or methods and the results clearly described?; Q5: Was the intervention(s) or treatment procedure(s) clearly described?; Q6: Was the post-intervention clinical condition clearly described?; Q7: Were adverse events (harms) or unanticipated events identified and described?; Q8: Does the case report provide takeaway lessons? ● = Yes; ○ = No; ⊞ = Unclear; ◐ = Not Available.

Table SVI. Quality assessment of included studies (case series).

First author, year	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	(Refs.)
Komaki, 1984	●	●	●	⊗	⊗	●	●	●	●	●	(8)
Gharpure, 1985	●	●	●	⊗	⊗	○	●	●	●	●	(10)
Khoury, 1989	●	●	●	●	⊗	○	●	●	●	●	(19)
Perren, 1992	●	●	●	●	⊗	●	●	●	●	●	(32)
Maryniak, 1993	●	●	⊗	⊗	⊗	○	●	●	○	●	(33)
Aozasa, 1993	●	●	●	●	●	○	●	●	●	●	(34)
Broekmans, 1993	●	●	⊗	⊗	⊗	●	●	●	●	●	(35)
Makarewicz, 1993	●	●	●	●	⊗	○	●	●	●	●	(36)
Kasales, 1994	●	●	●	●	●	○	●	●	○	●	(38)
Makarewicz, 1995	●	●	●	●	⊗	○	●	●	●	●	(43)
Kawakami, 1995	●	●	●	⊗	⊗	○	○	●	●	●	(44)
Holweg, 1995	●	●	●	⊗	⊗	○	●	○	●	●	(46)
al-Talib, 1996	●	●	●	⊗	⊗	○	●	●	○	●	(52)
Lee, 1998	●	●	●	●	⊗	○	●	●	●	●	(55)
Grace, 1999	●	●	●	⊗	⊗	○	●	●	●	●	(60)
Mhaweche, 2000	●	●	●	○	○	●	○	●	○	●	(63)
Piura, 2000	●	●	●	⊗	⊗	○	●	●	●	●	(67)
Kaneko, 2001	●	●	●	⊗	⊗	●	●	●	●	●	(69)
Vang, 2001	●	●	●	⊗	●	○	●	●	●	●	(70)
Au, 2003	●	●	●	○	⊗	●	○	●	●	●	(78)
Kendrick, 2005	●	●	●	⊗	⊗	○	●	●	●	●	(86)
Chan, 2005	●	●	●	⊗	●	●	●	●	●	●	(87)
Garavaglia, 2005	●	●	●	⊗	⊗	●	●	●	●	●	(88)
Dursun, 2005	●	●	●	⊗	⊗	○	●	●	●	●	(89)
Heredia, 2005	●	●	●	●	⊗	●	●	●	●	●	(93)
Van Renterghem, 2005	●	●	●	⊗	⊗	○	●	●	●	●	(94)
Frey, 2006	●	●	●	⊗	●	●	●	●	●	●	(97)
Hariprasad, 2006	●	●	●	⊗	⊗	○	●	●	●	●	(101)
Cohn, 2007	●	●	●	⊗	⊗	○	●	●	●	●	(106)
Signorelli, 2007	●	●	●	●	●	●	●	●	●	●	(107)
Köhler, 2008	●	●	●	⊗	⊗	●	●	●	●	●	(116)
Hanley, 2009	●	●	●	⊗	⊗	●	●	○	●	●	(118)
Upanal, 2011	●	●	●	⊗	⊗	●	●	●	●	●	(125)
Dyer, 2011	●	●	●	●	○	○	●	○	●	●	(127)
Kim, 2011	●	●	●	⊗	⊗	○	●	○	●	●	(129)
Chraiet, 2012	●	●	●	⊗	⊗	○	●	●	●	●	(130)
Ramalingam, 2012	●	●	●	⊗	⊗	○	○	●	○	●	(134)
Cao, 2014	●	●	●	●	●	○	●	●	●	●	(146)
Pather, 2015	●	●	●	⊗	⊗	○	○	●	●	●	(155)
Kasai, 2015	●	●	●	⊗	⊗	○	●	●	●	●	(157)
Vijayakumar, 2016	●	●	●	⊗	⊗	○	●	●	●	●	(167)
Singh, 2016	●	●	●	⊗	⊗	○	●	●	●	●	(170)
Liu, 2009	●	●	●	⊗	⊗	○	○	●	●	●	(172)
Goda, 2020	●	●	●	⊗	⊗	○	●	●	●	●	(189)
Murata, 2020	●	●	●	○	⊗	●	●	●	●	●	(193)
Saksena, 2022	●	●	●	●	●	●	●	●	●	●	(205)
Aminimoghaddam, 2022	●	●	●	⊗	⊗	●	●	●	●	●	(207)
Weng, 2022	●	●	●	●	●	○	●	●	●	●	(210)
Gao, 2023	●	●	●	●	●	○	●	●	●	●	(213)

Q1: Were there clear criteria for inclusion in the case series?; Q2: Was the condition measured in a standard, reliable way for all participants included in the case series?; Q3: Were valid methods used for identification of the condition for all participants included in the case series?; Q4: Did the case series have consecutive inclusion of participants?; Q5 Did the case series have complete inclusion of participants?; Q6: Was there clear reporting of the demographics of the participants in the study?; Q7: Was there clear reporting of clinical information of the participants?; Q8: Were the outcomes or follow up results of cases clearly reported?; Q9: Was there clear reporting of the presenting site (s)/clinic (s) demographic information?; Q10: Was statistical analysis appropriate? ● = Yes; ○ = No; ⊗ = Unclear; ◊ = Not available.

Table SVII. Number of included patients in the integrated analysis for overall survival. P-values were derived from the Kaplan-Meier curves that were calculated using the log-rank test and the Gehan-Breslow-Wilcoxon method.

A, Main analysis of overall survival (n=229)		
Group A	Group B	P-value
Premenopausal (n=94)	Postmenopausal (n=80)	0.005
Operative (n=78)	Non-operative (n=139)	0.2
Symptomatic (n=187)	Asymptomatic (n=24)	0.2
Operative (n=78)	Chemoradiation (n=49)	0.8
Surgery only (n=22)	Surgery + adjuvant treatment ^a (n=56)	0.1
Chemotherapy only (n=72)	Chemoradiation (n=49)	0.2
Surgery + adjuvant treatment ^a (n=56)	Chemoradiation (n=49)	0.4
Surgery + chemotherapy (n=24)	Chemotherapy only (n=72)	0.2
Stage I+II (n=104)	Stage III+IV (n=28)	0.1
Stage I (n=70)	Stage IV (n=22)	0.1
Metastasis (n=13)	No metastasis (n=155)	0.5
Operative (n=78)	Chemotherapy only (n=72)	0.1
B, Subgroup analysis of overall survival excluding studies with high risk of bias (n=173)		
Group A	Group B	P-value
Premenopausal (n=66)	Postmenopausal (n=64)	0.002
Operative (n=60)	Non-operative (n=108)	0.3
Symptomatic (n=147)	Asymptomatic (n=14)	0.6
Operative (n=60)	Chemoradiation (n=40)	0.7
Surgery only (n=17)	Surgery + adjuvant treatment ^a (n=43)	0.2
Chemotherapy only (n=55)	Chemoradiation (n=40)	0.4
Surgery + adjuvant treatment ^a (n=43)	Chemoradiation (n=40)	0.8
Surgery + chemotherapy (n=14)	Chemotherapy only (n=55)	0.6
Stage I+II (n=89)	Stage III+IV (n=21)	0.1
Stage I (n=59)	Stage IV (n=17)	0.1
Metastasis (n=11)	No metastasis (n=113)	0.5
Operative (n=60)	Chemotherapy only (n=55)	0.2
C, Subgroup analysis of overall survival of post-menopausal patients only (n=80)		
Group A	Group B	P-value
Operative (n=26)	Non-operative (n=51)	0.8
Symptomatic (n=70)	Asymptomatic (n=7)	n/a
Operative (n=26)	Chemoradiation (n=17)	0.4
Surgery only (n=7)	Surgery + adjuvant treatment ^a (n=19)	0.8
Chemotherapy only (n=30)	Chemoradiation (n=17)	0.2
Surgery + adjuvant treatment ^a (n=19)	Chemoradiation (n=17)	0.4
Surgery + chemotherapy (n=9)	Chemotherapy only (n=30)	0.4
Stage I+II (n=42)	Stage III+IV (n=13)	0.2
Stage I (n=23)	Stage IV (n=12)	0.7
Metastasis (n=13)	No metastasis (n=54)	0.4
Operative (n=26)	Chemotherapy only (n=30)	0.3
D, Subgroup analysis of overall survival of patients with stage I+II only (n=104)		
Group A	Group B	P-value
Premenopausal (n=39)	Postmenopausal (n=42)	0.3
Operative (n=32)	Non-operative (n=70)	0.1
Symptomatic (n=82)	Asymptomatic (n=11)	0.5
Operative (n=32)	Chemoradiation (n=30)	0.1
Surgery only (n=8)	Surgery + adjuvant treatment ^a (n=24)	0.5
Chemotherapy only (n=28)	Chemoradiation (n=30)	0.8
Surgery + adjuvant treatment ^a (n=24)	Chemoradiation (n=30)	0.1
Surgery + chemotherapy (n=8)	Chemotherapy only (n=28)	0.3
Metastasis (n=3)	No metastasis (n=85)	0.9
Operative (n=32)	Chemotherapy only (n=28)	0.1

^aChemotherapy or radiotherapy or both.

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