

Article

British Gynaecological Cancer Society recommendations and guidance on patientinitiated follow-up (PIFU)

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1 ABSTRACT

- The National Cancer Survivorship Initiative through the National Health Service (NHS) 2 improvement in the United Kingdom (UK) started the implementation of stratified pathways 3 of patient-initiated follow-up (PIFU) across various tumour types. Now the initiative is 4 5 continued through Living With and Beyond Cancer programme by NHS England. 6 Evidence from non-randomised studies and systematic reviews does not demonstrate a 7 survival advantage to the long-established practice of hospital-based follow-up (FU) regimens, traditionally over 5 years. Evidence shows that patient needs are inadequately 8 met under the traditional hospital-based follow-up FU-programmes and there is therefore 9 an urgent need necessity to adapt pathways to the needs of patients. The assumption that 10 hospital-based hospital-based follow-upFU is able to detect cancer recurrences early and 11 12 hence improve patients' prognosis has not been validated. A recent survey demonstrates that hospital-based follow-upFU practice across the UK varies widely, with telephone follow-13 upFU clinics, nurse-led clinics, and PIFU becoming increasingly common. 14 There are currently no completed randomised controlled trials in -PIFU in gGynaecological 15 16 malignancies, although there is a drive towards implementing PIFUit. PIFU aims to 17 individualise patient care, based on risk of recurrence and holistic needs, and optimising resources. The British Gynaecology Cancer Society (BGCS) wishes to provide the 18 19 gynaecological oncology community with guidance and a recommendations' statement regarding the value, indications and limitations of PIFU in endometrial, cervical, ovarian and 20 21 vulva cancers in an effort to standardise practice and improve patient care. Key words: Patient initiated follow-up (PIFU), gGynaecology OOncology, follow-up (FU), 22 23 gGynaecological malignancies. Precis: British Gynaecology Cancer Society (BGCS) recommendations' statement regarding 24 25 the value, indications and limitations of PIFU in endometrial, cervical, ovarian and vulvar 26 carcinoma 27
- 28 INTRODUCTION

30 improve the quality of care and standardise treatment and follow-up pathways for 31 patients with gynaecological cancer. As the practice of follow up varies widely¹ 32 and is continuously evolving, the BGCS wished to implement strategies for a UK-wide implementation of patient initiated follow-up (PIFU), addressing its indications, value and 33 34 limitations across all different gynaecological cancer sites. The National Cancer Survivorship Initiative, through NHS improvement, has already implemented stratified pathways 35 (including some patient initiated) for follow up in breast, colorectal, and prostate 36 cancer². Patients with early stage cancer of breast, colorectal and prostate may be 37 offered remote surveillance and at the present time no surveillance techniques have been 38 deemed to be effective in gynaecological cancers. 39 40 Historically, patients have been kept on hospital-based follow up in dedicated outpatient 41 clinics for 5-10 years following diagnosis and treatment for gynaecological cancer^{3.4}. 42 The main aims of follow-up include: detection of asymptomatic recurrences, with the assumption that this will improve prognosis; detection and management of side effects of 43 treatment; improvement in quality of life; identification and treatment of patient concerns 44 and anxieties around their cancer diagnosis^{5,6}. However, there is no evidence that 45 intensive follow-up improves survival 7-13 and women often find clinical examination 46 uncomfortable (especially vaginal examination) with 54% (48/89) experiencing increased 47 anxiety prior to their follow up appointments⁶. 48 There is evidence that the current hospital-based follow-up does not necessarily meet 49 cancer survivors needs, failing to provide emotional support and information needs¹⁴ 50 51 due to limited time, resources and lack of focus on a holistic approach of the patients' needs. A holistic approach will take account of mental and social factors as well as 52 symptoms of the disease. In 2010 the National Cancer Survivorship Initiative (NCSI) was 53 54 launched by the Department Of Health in England in collaboration with one of the UK's largest charitable organisations, Macmillan Cancer Support, to improve the long term 55 consequences of surviving cancer¹⁵. In more recent years, the Living With and Beyond 56 57 Cancer programme¹⁶ has advocated a shift in care and support towards self-58 management, based on individual needs and preferences, and away from the traditional single model of clinical follow-up. This approach empowers individuals to take responsibility 59

The British Gynaecology Cancer Society (BGCS) has issued a number of guidelines to

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for their condition, supported by clinical assessment to enable early recognition of 60 61 symptoms of recurrence or consequences of their treatment and a 'Recovery Package' that 62 includes holistic needs assessments (performed after completion of treatment for cancer), 63 treatment summaries, health and well-being events and cancer care reviews in primary 64 care¹⁶. 65 There are different follow up methods currently utilised in the UK which include hospital follow up, telephone follow up and PIFU. Hospital follow up involves seeing 66 67 patients in clinics at regular intervals, whereas telephone follow up involves calling patients at a specified time at pre-determined intervals. PIFU involves educating patients 68 about concerning symptoms, such as vaginal bleeding, unintentional weight loss, and 69 70 worsening abdominal pain or bowel/bladder symptoms. In patient-initiated follow up, 71 patients are not given routine follow up appointments (hospital, telephone or with the General practitioner), but instead are empowered to call the gynaecological oncology 72 73 team directly (often via the clinical nurse specialist with specialist cancer knowledge) if they 74 have these symptoms and then they are fast-tracked back into the specialist care system. It 75 is very important that patients are given written information about PIFU, which includes the contact details should they need them. Most patients find PIFU acceptable¹⁷, although 76 77 younger patients and those who struggle to access healthcare (due to socio-demographic factors) may require the additional support ¹⁸of routine contact, either via hospital 78 follow up or telephone follow up. 79

80 METHODS

81 The BGCS PIFU meeting was held on 14th March 2019 in London, UK. Experts from clinical 82 practice (including medicine and nursing) and academia with specialist knowledge and expertise in gynaecology oncology and alternative follow up strategies reviewed 83 available evidence from a systematic literature search in Medline, Embase CINAHL, AMED, 84 85 BNI, HBE, HMIC, PsycINFO that aimed to identify significant evidence on alternatives to 86 hospital-based follow-up. These data were presented, discussed and evaluated by the key opinion leaders. Additionally, data from a national survey of follow-up practice across the 87 UK in gynaecological malignancies were presented. All experts agreed the consensus 88

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89	guidelines for each gynaecological tumour site (<u>c</u> ervical, <u>o</u> varian, <u>e</u> ndometrial and
90	<u>v</u> ulva).
91	Although there was no patient representative at the BGCS PIFU meeting, there has been
92	positive feedback from patients within the hospitals that have already implemented the
93	guidelines and in studies that looked at patient acceptability ¹⁷⁻¹⁹
94	
95	
96	DISCLAIMER
97	Clinicians should always use their clinical judgement to determine if an individual patient is
98	suitable for PIFU. These consensus recommendations have been produced as guidance for
99	follow up pathways and are based on available evidence. Where little evidence existed,
100	expert consensus was agreed.
101	RESULTS
102	PIFU guidance for each cancer type will be presented separately under the general umbrella
103	and recommendation that only those patients who fit all of the criteria below are eligible
104	and safe to be offered PIFU:
105	
	General eligibility criteria for PIFU
	Completed primary treatment for a gGynaecological malignancy and are clinically well
	Patients should be willing and able to access healthcare if on PIFU
	They should be without significant treatment related side-effects that need ongoing management

They should not have recurrent disease

They should not be on active or maintenance treatment

They should not be on a clinical trial where follow-up schemes are defined and limited to hospitalbased <u>follow up</u>FU

They should not have a rare tumour with uncertain risk of recurrence and need for ongoing management

They must be able to communicate their concerns without a significant language barrier or psychological comorbidity and have competence to agree to PIFU

LOG LO7 At the clin LO8 explanatio	ic visit prior to offering PIFU, patients should be provided with a careful on on the lack of evidence for benefit from regular follow-up visits to the hospital
LO7At the clir.L08explanationL09and the ratio	ic visit prior to offering PIFU, patients should be provided with a careful on on the lack of evidence for benefit from regular follow-up visits to the hospital
108 explanatio	on on the lack of evidence for benefit from regular follow-up visits to the hospital
109 and the ra	
	tionale for implementing a supported self-management approach (PIFU).
L10 However,	for patients with significant iatrogenic side effects, which impair their quality of
L11 life and ne	ed active management, it is important that those are addressed and managed
12 within in t	he clinic setting with sufficient access to other health professionals, such as
13 gastroent	erologists, urologists, endocrinologists, and psychologists. PIFU should be offered
14 on a case-	by-case basis, ensuring there are no existing unmet needs and according to their
15 cancer typ	pe.
L16 ENDOME	TRIAL CANCER
17 There are	approximately 9,300 new cases of endometrial cancer in the UK and it is the $4^{ m th}$
18 most com	mon cancer in women ²⁰ . There has been an increase of nearly 20% in the last
.19 10 years ²⁰	, which is thought to be largely due to the sharp increase in obesity, although
20 rarer tum	ours, not associated with obesity have also increased.
.21 Low risk e	ndometrial cancer is defined by the (European Society of Medical Oncology-
122 European	Society of Gynecological Oncology) ESMO-ESGO guidelines ²¹ _as stage <u>I</u>
.23 endometr	ioid, grade 1-2 histology, with ≤50% myometrial invasion, negative for
.24 lymphova	scular space invasion and hence not in need of adjuvant treatment ²¹ .
25 Following	hysterectomy and bilateral salpingo-oophorectomy, patients have their
.26 holistic ne	eds assessment and the next steps of their journey discussed with their
.27 dedicated	cancer support workers, under the coordination and guidance of the clinical nurse
.28 specialists	. They can also be referred to psycho-oncological counselling services, if required
.29 and accep	ted by the patient. Patients are educated about symptoms that would be
.30 concernin	g for a recurrence, such as vaginal bleeding, worsening or persistent abdominal
.31 pain, or b	adder/bowel symptoms. A population study by Salvesen over 10 years
132 demonstr	ated that 653 patient consultations were needed to pick up one asymptomatic low
.33 risk endor	netrial cancer patient with recurrent disease <u>12,13</u> . Based on a very low risk

of relapse without adjuvant treatment, these patients could be offered PIFU after they have

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completed treatment at, or shortly after, the time of their <u>holistic needs assessment</u>
appointment (<u>Figure 1</u>).

137 Intermediate risk endometrial cancer is defined by the ESMO-ESGO guidelines²¹ as 138 stage I endometrioid, grade 1–2, ≥50% myometrial invasion, <u>lymphovascular space invasion</u> 139 negative. These patients are commonly offered vaginal brachytherapy, without external 140 beam radiotherapy, following their hysterectomy²¹. Their risk of recurrence is relatively 141 low. Patients could be offered PIFU at the 3-month review after treatment or anytime 142 during the first 2 years of hospital follow up. It is important for patients to be aware that they may develop late onset toxicity following brachytherapy that may not be apparent 143 144 shortly after finishing their treatment. For that reason, it should be explained that they can 145 be seen back in clinic, if their have concerns related to toxicity, as well as if they have symptoms concerning for recurrence, if they are on PIFU. Another option for these patients 146 is telephone follow up with randomised controlled trial level data of no physical or 147 148 psychological detriment, compared to hospital follow-up, in stage l endometrial cancer²² 149 Telephone follow-up could be seen as a useful transition between face to face hospital-150 based appointments and PIFU. 151 High-intermediate risk endometrial cancer is defined by the ESMO-ESGO guidelines²¹ as patients with grade 1–2 tumours with deep (≥50%) myometrial invasion and unequivocally 152 153 positive (substantial, not focal) lymphovascular space invasion, and those with grade 3 154 tumours with <50% myometrial invasion regardless of lymphovascular space invasion status. These patients are treated as high risk for the purpose of these guidelines, due to 155 156 their higher risk of recurrent disease. High-intermediate risk endometrial cancer represents a heterogeneous group of patients, including both endometrioid and non-endometrioid 157 158 tumour types, such as serous and clear cell, and ranges from stage IB grade 3 (with or without lymphovascular space invasion and with or without nodal staging) to more 159 160 advanced FIGO stages²¹. The risk of recurrence is higher for these patients (>20%) and therefore it is suggested that they should be seen in the clinic for at least the first 2 161 years, as this is the most frequent time for recurrence^{23,24}. After 2 years patients 162 163 could be offered PIFU for the remaining 3 years (Figure 1). Again, another alternative is 164 telephone <u>follow up</u>for the remaining 3 years.

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165 CERVICAL CANCER

166 There are approximately 3,200 new cases of cervical cancer every year_with an 167 incidence of 12 per 100,000 in the UK²⁵. 168 In patients with a FIGO stage IA1 cervical cancer the British Society of Colposcopy and Cervical Pathology (BSCCP) recommend cervical cytology should be taken 6 and 12 months 169 170 after treatment (hysterectomy or LLETZ) followed by annual cytology for a further 9 years 171 before returning to routine recall until the age of 65 for those treated with LLETZ and still have a cervix²⁷. If patients have had a hysterectomy for stage <u>IA</u>1 cervical cancer 172 there are specific guidelines on cytology follow-up depending on histology of the 173 174 hysterectomy specimen²⁷. Patients who have had a hysterectomy for stage IA1 are also excluded from PIFU. 175 176 In low risk patients (FIGO stage IB1) who have undergone a radical hysterectomy for treatment of cervical cancer the BGCS recommends follow-up in the clinic setting every 3-4 177 178 months in the first 2 years, and then PIFU can be offered (Figure 2). It should be noted that the BSCCP recommends vault smears at 6 and 18 months after a hysterectomy for 179 180 cervical intraepithelial neoplasia (CIN)²⁷if margins are free of CIN. However, vaginal 181 vault cytology should not be performed following treatment for FIGO stage ≥IA2 as it 182 does not add significantly to the detection of recurrent disease^{25, 27-28}. These 183 patients have a 5-year risk of recurrence of 5.8-8%^{27, 29-31}. However only 4-5% 184 will have pelvic recurrences and only 1-2% can be salvaged^{28,31,32}, although this 185 has increased slightly with cyberknife and other techniques. In a large Danish national 186 cohort study of 1523 patients with low-risk cervical cancer, of those with recurrent 187 disease, 67.5% experienced a symptomatic recurrence³⁰ Other studies have shown 188 similar rates of symptomatic recurrent cervical cancer²⁴. Therefore, as the majority 189 present with symptoms, PIFU appears to be reasonable for low-risk patients. As surgery for 190 early stage cervical cancer may cause morbidity, such as bladder dysfunction and 191 lymphoedema, hospital follow up for the first 2 years was thought to be preferable to telephone follow up (BGCS consensus agreement). 192 In patients with intermediate (risk of recurrence 10-20%) or high risk (risk of recurrence 193

194 >20%) disease, hospital <u>follow up</u>, to include taking an appropriate history and clinical

195	examination at each visit, should be undertaken to try and detect recurrent disease. This
196	group of patients usually have FIGO stage $\geq \underline{IB2}_{2}$ although there are other factors that play
197	a role in the likelihood of recurrence, such as lymph node status and lymphovascular space
198	invasion ³⁰ . Hospital follow up should be undertaken for 5 years, particularly as
199	these patients may have significant treatment-related toxicity (Figure 2). However, it
200	should be noted that the majority of recurrences occur within 2 years; a Norwegian national
201	prospective observational study by Vistad et al. in 2017, which included 680 patients with
202	gynaecological cancer recurrence, showed a mean annual incidence rate from years 3-5 of
203	only <7% ³⁰ .

204 OVARIAN CANCER

205 There were 7,500 women who developed tubo-ovarian/primary peritoneal cancer in the UK in 2016 making it the 6th most common cancer in women³⁴. The majority of those who 206 207 developed tubo-ovarian/primary peritoneal cancer had epithelial ovarian cancer, which relates to these guidelines. Non-epithelial ovarian cancers, such as granulosa cell 208 209 tumours or germ cell tumours of the ovary, are not included in these guidelines, as they 210 have their own distinct pathogenesis and behave differently from epithelial ovarian 211 cancer. Fertility-preserving surgery, that includes a unilateral salpingo-oophorectomy 212 and full surgical staging, is acceptable in young patients with stage IA (grade 1 and 2), and 213 stage IC (grade 1) disease, as they have similar recurrence rates and overall survival to 214 those undergoing conventional treatment³⁵. However, these patients should be seen 215 regularly for hospital follow up and ultrasound scans of the contralateral ovary and are excluded from PIFU. 216

217 Only patients who have been adequately staged, with pelvic and para-aortic 218 lymphadenectomy and peritoneal biopsies for an apparent stage I ovarian cancer, should 219 be offered PIFU, so that occult higher stage cancers with higher risk of relapse, are not 220 included³⁶. Patients with fully staged IA/B ovarian cancer (of any grade) have a low 221 risk of recurrence and therefore could be offered PIFU after they have completed their 222 treatment (Figure 3). Evidence does not suggest that routine follow-up of patients with 223 ovarian cancer improves survival³⁷⁻⁴⁰. A randomised phase III study OV05-EORTC 224 55955⁴⁰, which compared initiation of chemotherapy on development of elevated

225 CA125 versus initiation of chemotherapy on clinical/symptomatic evidence of relapse 226 showed treatment was delayed by a median of 4.8 months in the latter group with no 227 detriment to overall survival (HR 1.01; 95% CI 0.82–1.25; P = 0.91). Moreover, quality of 228 life was lower in the patients that had initiation of chemotherapy on CA125 rise. However, 229 this study took place outside the possibility of secondary cytoreductive surgery for recurrent 230 ovarian cancer and also before the establishment of targeted and maintenance agents at 231 relapsed disease and it is unclear whether we can translate its findings to the modern era of 232 ovarian cancer management $\frac{36,42}{2}$.

233 At the follow-up appointment, symptoms should be assessed and a physical examination 234 should be carried out in the first 3 years from completing treatment in patients with FIGO 235 stage 2-4, as this is the most common time period in which recurrent disease develops³⁰ 236 . In years 4 and 5, in the absence of recurrent disease, patients could have the option of 237 moving to a combination of telephone follow up with CA125 serial measurements, if 238 deemed suitable by their clinician. There is evidence that telephone follow up in ovarian 239 cancer is well received and the majority preferred it to hospital follow up 43. If 240 patients are not suitable for telephone follow up and remote CA125 measurements,

patients should continue hospital <u>follow up</u> for a minimum of 5 years after completing
 treatment.

243 VULVAR CANCER

- Vulvar cancer is rare with only 1,300 new cases in 2015 in the UK, which is less than 1% of all
 cancers in women⁴⁴. Cancer of the vulva primarily affects older women with the
 highest incidence of women aged 90 or over⁴⁴. The difficulty of self-examination and
 the increased numbers of cases in deprived areas⁴⁴ leads to a greater number of
 vulnerable women. Therefore, the BGCS recommends that women with vulvar cancer are
 not suitable for PIFU (Figure 4) and should follow the traditional follow up schemes
- 250 involving careful clinical examination. This should be performed by clinicians with
- appropriate experience, which would usually be in the hospital setting.
- 252 There is no evidence for the recommendations of frequency of examinations. The ESGO
- expert consensus guidelines and RCOG guidelines on vulvar cancer⁴⁵ recommend 3-4
- 254 monthly follow-up in the first 2 years, biannually for years 3 and 4 and then annual life-long

255	follow-up. This is supported by a retrospective analysis of 330 patients with primary vulvar	 Commented specify
256	carcinoma treated at the Mayo clinic, which showed 35% of recurrences occurred more	Commented
257	than 5 years after diagnosis with both distant and local disease $\frac{46}{2}$. The BGCS	
258	recommends follow up of patients with vulval cancer for at least 5 years, with longer	
259	follow-up at the discretion of the treating clinician. Patients with multi-focal vulvar	
260	intraepithelial neoplasia (VIN) or lichen sclerosis with VIN (differentitated VIN) are at high	
261	risk of multi-focal disease and more intensive follow-up may be warranted ^{45, 47} .	
262		
263	ACKNOWLEDGMENTS	
264	We would like to thank Debbie Lewis for her help in organising the BGCS PIFU meeting.	
265	COMPETING INTERESTS	
266	None	
267	ETHICS	
268	No ethical review was necessary as this is a review article and therefore we did not use any	
269	human participants for this piece of research.	
270		
271	FUNDING	
272	All costs relating to the BGCS guideline meeting on patien- initiated follow-up were covered	
273	by BGCS funds.	

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Endometrial Cancer	Clinic-based FU	Telephone FU	PIFU
		+/- blood test	
Low risk	If patient	If patient	Offer from end of
(<10% risk of	declines PIFU	declines PIFU	treatment (after
recurrence ROR)	(for maximum	(for maximum	Holistic needs
	of 2 years from	of 2 years from	assessment at 3
	end of	end of	months)
	treatment)	treatment)	
Intermediate risk	Can be offered	Can be offered	offer from end of
	if declines PIFU	if declines PIFU	treatment or
	for 2 years from	for 2 years from	after 2 years for
	end of	end of	all
	treatment	treatment	
High -intermediate risk	For 5 years	For 5 years	offer from 2 years
	(either	(either	from end of
	telephone FU or	telephone FU or	treatment in
	clinic FU)	clinic FU)	place of
			telephone FU or
			clinic FU.
High-risk	For 5 years	For 5 years	offer from 2 years
	(either	(either	from end of
	telephone FU or	telephone FU or	treatment in
	clinic FU)	clinic FU)	place of
			telephone FU or
			clinic FU.

Figure 1: Guidelines for follow-up in e-ndometrial cancer

(ROR=risk of recurrence, PIFU= patient initiated follow-up, FU=follow-up)

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Cervical Cancer	Clinic-based FU	Telephone FU +/-	PIFU
		blood test	
Low risk (<10% risk	For 5 years post	Not suitable	Offer from 2 years
of recurrence	completion of		from end of
ROR) excluding	treatment		treatment
fertility sparing			
surgery/ LLETZ			
Intermediate risk	For 5 years post	Not suitable	Not suitable
	completion of		
	treatment		
High risk	For 5 years post	Not suitable	Not suitable
	completion of		
	treatment		

Figure 2: Guidelines for follow-up in <u>c</u>ervical cancer (ROR=risk of recurrence, PIFU= patient initiated follow-up, LLETZ= large loop excision of transformation zone, FU=follow-up).)

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_	v	

Ovarian Cancer	Clinic-based FU	Telephone FU +/-	PIFU
		blood test	
Low risk (<10% risk of	Can be offered	Can be offered if	Offer from end
recurrence ROR, stage	if declines PIFU	declines PIFU for 2	of treatment
1a/b fully staged) from	for 2 years from	years from end of	(after Holistic
end of treatment	end of	treatment	needs
(surgery +/-chemo).	treatment		assessment at
Excluding fertility			3 months)
sparing surgery			
FiGO stages 1c-4	For 3 years	Can be offered for	Not suitable
	from end of	years 4+5 from end	
	treatment	of treatment	

Figure 3: Guidelines for follow-up in <u>o</u>Ovarian cancer

(ROR=risk of recurrence, PIFU= patient initiated follow-up, FU=follow-up)

Options for follow-up	Vulval Cancer
PIFU for 5 years from treatment	Not suitable
Remote/telephone +/- bloods	Not suitable
Clinic-based FU	Follow-up including clinical inspection for at least 5 years from from end of treatment

Figure 4: Guidelines for follow-up in v¥ulvar l-cancer

294 (FU=follow-up, PIFU= patient initiated follow-up)

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