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### Maintenance of Professional Competence in Ireland: A National Survey of Doctors' Attitudes and Experiences

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Maintenance of Professional Competence in Ireland: A National Survey of Doctors' Attitudes and Experiences

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2 3 4 5	1	Abstract (300 words)			
6 7	2	<b>Objectives:</b> Programmes to ensure doctors' Maintenance of Professional Competence (MPC) have			
8 9	3	been established in many countries. Since 2011, doctors in Ireland have been legally required to			
<ul> <li>participate in MPC. A significant minority has been slow to engage with MPC, mirroring th</li> </ul>					
12 13 14	5	contested nature of such programmes internationally. This study aimed to describe doctors'			
15 16	6	attitudes and experiences of MPC in Ireland with a view to enhancing engagement.			
17 18 19	7	Participants: All registered medical practitioners in Ireland required to undertake MPC in 2018 were			
20 21	8	surveyed using a thirty-three item cross-sectional mixed-methods survey designed to elicit attitudes,			
22 23 24	9	experiences and suggestions for improvement.			
25 26	10	Results: There were 5,368 responses (response rate 41.5%). Attitudes to MPC were generally			
27 28 29	11	positive, but the time, effort and expense involved outweighed the benefit for half of doctors. Thirty-			
30 31	12	12 eight percent agreed that MPC is a tick-box exercise. Heavy workload, travel, requirement to rec			
32 33	13	CPD activities, and demands placed on personal time were difficulties cited. Additional support, as			
34 35	14	well as higher quality, more varied educational activities were amongst suggested improvements.			
36 37 38	15	Thirteen percent lacked confidence that they could meet requirements, citing employment status as			
39 40	16	the primary issue. MPC was particularly challenging for those working less than full-time, in locum or			
41 42	17	non-clinical roles, and taking maternity or sick leave. Seventy-seven percent stated a definite			
43 44	18	intention to comply with MPC requirements. Being male, or having a basic medical qualification from			
45 46 47	19	outside Ireland was associated with less firm intention to comply.			
48 49	20	Conclusions: Doctors need to be convinced of the benefits of MPC to them and their patients. A			
50 51 52	21	combination of clear communication and improved relevance to practice would help. Addition of a			
53 54	22	facilitated element e.g. appraisal and varied ways to meet requirements would support			
55 56	23	participation. MPC should be adequately resourced, including provision of high quality free			
57 58 59 60	24	educational activities. Systems should be established to continually evaluate doctors' perspectives.			

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5 6 7	26	Strengths and Limitations of this Study
8 9	27	Strengths include;
10 11 12	28	• Strong response rate for a national online survey of all doctors (n=5368, 41.5%)
13 14	29	Representativeness of the respondents
15 16	30	• Diverse stakeholders involved in the research, including patient representation
17 18 19	31	• Survey design was undertaken in accordance with best practice, informed by literature and
20 21	32	theory. Post hoc analysis of the survey confirmed its validity.
22 23 24	33	Limitations include;
25 26 27	34	Although the response rate to the survey was excellent there were still large numbers of
28 29	35	non-responders. We cannot be sure that the findings presented here represent the views of
30 31 32	36	non-responders.
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#### 39 Introduction

Historically, once a doctor entered independent practice, career-long maintenance of professional
knowledge and skills was assumed [1]. In recent decades, evolving doctor-patient relationships, a
drive for accountability, and high-profile cases of malpractice [2] have led medical regulators to put
continuous evaluative processes in place to ensure that doctors are up to date and fit to practise [3].
A variety of terms are used to describe these programmes; revalidation, recertification, relicensing,
maintenance of certification and maintenance of licensure [4, 5]. In this paper, we will use the term
Maintenance of Professional Competence (MPC).

47 MPC programme requirements vary from country to country but, in general, involve educational and 48 assessment elements such as; evidence of good professional standing; participation in knowledge 49 self-assessments; examinations; quality improvement projects or audits; appraisal; peer and patient 50 feedback; and continuing professional development (CPD)[3, 5–7]. The intended outcomes of these 51 activities are manifold and include; improving patient safety and the quality of patient care; 52 encouraging doctors to commit to lifelong learning; and enhancing the continuing professional 53 development of doctors [5, 8]. While there is evidence that some MPC activities, such as interactive 54 CME/CPD, appraisal, review of patient complaints and multisource feedback, have an impact on 55 doctors' knowledge, skills, attitudes and behaviours, it is less clear that MPC significantly impacts 56 patient outcomes [3]. This has led to much debate about whether and how MPC programmes should 57 be implemented.

In keeping with international trends, in Ireland doctors have been legally mandated to participate in
MPC since 2011. The Medical Council, the regulator for doctors in Ireland, has established a range of
Professional Competence Schemes (PCS) to administer the process through thirteen national bodies
responsible for postgraduate medical training. Doctors are required to enrol in and submit evidence
of educational activities annually through a PCS. Each doctor is expected to obtain a minimum of 50
credits per year (1 credit= 1 hour) through CPD activity. A minimum requirement of 20 credits each is

set for external and internal CPD, with the remainder coming from personal learning and
research/teaching categories. In addition, each doctor is required to complete one quality
improvement (clinical/non-clinical) audit per year [9].

Following its introduction in Ireland, a significant minority of doctors were slow to engage with MPC. By 2016, 16.3% had still not enrolled in a PCS despite a legal requirement to do so. Active measures by the Medical Council have addressed enrolment reducing this figure to 1.7% in 2018 [10]. Nonetheless, engagement remains a problem, with one postgraduate training body reporting 30% of doctors not meeting the requirements laid down by the Medical Council [11]. Failure amongst doctors to engage fully with a legal requirement linked to competence has the potential to undermine the trust the public have in their doctors. It also creates risk for employers, indemnifiers and a significant challenge for the regulator.

This paper reports a national survey of doctors in Ireland, funded by the Health Research Board
Ireland. The aim of this study was to describe doctors' attitudes, experiences and suggestions for
improvement in relation to current systems for Maintenance of Professional Competence (MPC) in
Ireland. The research was underpinned by an integrated approach to knowledge translation. The
research team included representation from a range of stakeholders; the regulator, postgraduate
training bodies, the health service and patients.

81 Methods:

#### 82 Study design and setting

As the regulatory body for the medical profession in Ireland, the Medical Council has amongst its roles maintenance of the Register of Medical Practitioners and must satisfy itself as to medical practitioners ongoing maintenance of professional competence . The Register of Medical Practitioners is comprised of four divisions shown in Table 1 below. Those registered in the general, supervised and specialist division are required to participate in MPC.

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Division	Registrants	
General Division	Medical practitioners who have not completed specialist training and do not occupy a postgraduate training post. Nineteen percent of doctors in this division are GPs.	
Specialist Division	Medical practitioners who have completed specialist training recognised by the Council and can practise independently as a specialist. Thirty nine percent of doctors in this division are GPs.	
Supervised Division	Medical practitioners who have been offered a post that has been approved by the national Health Service Executive (HSE), which has specific supervisory arrangements.	
Trainee Specialist DivisionTrainee specialist registration is specifically for medical practitioners who practise in individually numbered, identifiable postgraduate training posts.		
Table 1. Divisions of the Register of Medical Practitioners		

90 Ireland mandated to participate in MPC in 2018 (n = 12,920).

#### 91 Survey instrument

92 We designed a questionnaire to elicit doctors' experience, attitudes and suggestions for 93 improvement of MPC. We drew on several sources to develop the questionnaire. We reviewed the 94 literature, held a focus group with doctors undertaking MPC, and sought input from our knowledge-95 user research partners to identify key areas of interest. The Theory of Planned Behaviour (TPB)[12], 96 acted as a sensitising concept in the design of the survey. TPB posits that an individual's attitude 97 towards a behaviour, the subjective norms relating to that behaviour and the individual's perceived 98 control of the behaviour, shape behavioural intentions and the behaviour itself [12]. In the case of 99 MPC, this focussed attention not only on doctors' attitudes to MPC, and the barriers to participation 100 they encountered, but also on their perceptions of the attitudes of others such as patients and 101 colleagues, and the consequences of failure to participate. The questionnaire was piloted with a 102 further group of doctors (n = 30) representative of our target population, following which it was 103 further revised and refined to improve clarity and length. The final version of the questionnaire 104 consisted of thirty statements relating to MPC and three free text questions. A Likert-type format

was used for the statements with five response codes ranging from 1 = strongly agree to 5 = strongly
 disagree. A copy of the questionnaire can be found in Appendix A.

#### 107 Patient Involvement

The research team included Mrs. Margaret Murphy, a patient safety advocate and then External Lead Advisor, WHO Patients for Patient Safety, a network of 200-plus patient safety champions from 51 countries. Mrs. Murphy was a member of the project steering committee. She approved the design and conduct of the study and contributed to design of the questionnaire. Patient perspectives were reflected in items addressing the impact of MPC on patient outcomes, doctors' perceptions of the importance of MPC to patients and the possibility of patient feedback contributing to doctors'

114 MPC.

#### 115 Data collection

All doctors registered with the Medical Council are required to complete an online Annual Retention of Registration process. In June/July 2018, information about the survey and a link to complete it were included in the process as a pop-up targeting those in the relevant divisions of the register. The information and link were also sent in email reminders to doctors in the weeks following the annual retention process. Survey responses were linked to demographic data held by the Medical Council using registration numbers. Once the data was collated the registration numbers were removed and replaced with participant numbers to anonymise the data.

123 Data analysis

Descriptive statistics (frequencies and percentages) were generated to describe both the
 demographic characteristics of respondents and responses to each survey item. Proportional odds
 regression models were used to formally test the associations between responses to attitudinal
 items and intention to comply with the requirements of MPC. To validate the survey instrument we
 estimated a full Confirmatory Factor Analysis (CFA) model with four latent factors based on the

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various Likert response survey questions organised under headings drawn from the Theory of
Planned Behaviour; attitudes; facilitators; barriers; and social norms. To accommodate the ordered
categorical nature of the indicators, we used a robust Weighted Least Squares estimator. We
calculated factor scores for each participant based on the model result and explored associations
between these factor scores and demographic characteristics with confidence of capability to
comply with requirements of MPC and intention to comply. Thematic analysis [13] was conducted
on the responses to the open-ended survey questions.

136 Ethics

137 This study received ethical approval through the University College Cork Social Research Ethics138 Committee. Informed consent was obtained from all participants.

#### 139 Results

140 There were 5,368 responses to the survey from a population of 12, 920, giving a response rate of 141 41.5%. Male doctors accounted for 61% of responses. Median age was 47 years (IQR 38-56). 58% 142 were in the specialist division of the register and 39% were in the general division and 0.7% in the 143 supervised division. 56% had gained their Basic Medical Qualification (BMQ) in Ireland and a further 14% within the EU. Respondents were representative of the survey population, with slight over 144 representation of males (61.2% vs 57.7%) and doctors registered in the general division (39.3% vs 145 146 36.5%). There was good representation across specialties and countries of Basic Medical 147 Qualification. Graduates of Irish medical schools were slightly under-represented in the General 148 Division (29.4% vs 27.4%) and overrepresented in the Specialist division (73.8% vs 79.4%). 149 150 The majority of respondents held positive views on the general benefits of MPC, agreeing that it 151 reassures patients and the public (65%), encourages doctors to continually learn and keep up to date 152 (77%) and raises the standard of practice of all doctors (62%). At a more personal level, being

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encouraged to participate in educational activities was the most agreed benefit (70%), followed
closely by being encouraged to reflect more on one's professional development (67%).

When the benefits were set against the time, effort and expense involved in the process only 51%
agreed that MPC was a worthwhile exercise and 38% agreed with the statement that MPC was a tick
box exercise. MPC was considered to have resulted in changes in practice by a small majority (53%).
MPC wasn't seen as being particularly important to patients (57%) or to colleagues (56%) and only
58% felt that non-compliance risked removal from the register.

160 Figures 1 and 2 here

161 Barriers to participation in MPC

The main barriers to participation were lack of protected time and expense (see Fig. 3). Expense of locum cover to allow participation in CPD was also a significant barrier. Audit skills were lacking in a significant minority (27.2%). Doctors </= 34 years of age or over 55 years were more likely to report these difficulties (35% and 32% respectively p<0.001).

A small group of doctors (12.8%) did not understand what they were required to do to maintain
 professional competence. A small majority (55%) agreed that current arrangements and information
 were sufficient. A significant minority expressed ambivalence or dissatisfaction with their ability to
 access high quality CPD. 49% disagreed or were ambivalent towards the statement that they match
 their choice of CPD to their learning needs.

171 Respondents provided over 1,300 comments relating to barriers to meaningful participation in MPC.
172 Six themes, with associated subthemes, were identified, and are outlined in Table 2 below, ranked
173 by frequency. Illustrative quotes are shown along with the respondent's area of practice, area of

basic medical qualification (BMQ – Ireland, Other EU, non EU), and division of the register.

175 Figure 3 here

Barriers

**Barrier Subthemes** 

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	<b>1.1 Time involved in meeting the requirements of MPC</b>	Time for participation in MPC activities • Workload • Travel to attend CPD activities
		<ul> <li>Recording MPC activities</li> <li>MPC time vs personal time</li> </ul>
	1.2 Expense of participationCumulative expense of MPCin MPCImpact of expense on the selection of CPD activitiesInsufficient CPD fundingExpense related to specific groups of doctors	
	1.3 Availability and quality of CPD activities	Lack of relevance of CPD courses to scope of practice <ul> <li>CPD too general, not specialised</li> <li>Repetitive content</li> <li>Lack of recognition of all professional activities</li> <li>Lack of value for money</li> </ul> <li>Difficulty of accessing CPD course <ul> <li>Geographical location</li> <li>Short notice of upcoming CPD courses</li> <li>Poor availability of online CPD courses</li> <li>Limited number of places available on CPD courses</li> </ul> </li>
	1.4 Employment status	<ul> <li>Working abroad</li> <li>Employed outside of Ireland</li> <li>Recently returned to Ireland after working abroad</li> <li>Not employed in Ireland (looking for jobs)</li> <li>Non-fulltime employment</li> <li>Maternity or sick leave</li> <li>Non-clinical role</li> </ul>
	1.5 Record-keeping	Tedious and time-consuming process Cumbersome online platform
	1.6 Audit	Lack of skills, training and support Frequency of audit Lack of relevance to scope of practice Time-consuming process
176	Table 2. Barriers to meaningfu	Il engagement with MPC - themes and subthemes
177 178	Consistent with the Likert-scaled responses, the time and expense of participation in MPC were the	
179	most frequently cited barriers	
180	Time involved in meeting the requirements of MPC	
	'After a 10-12 hour very difficult day it can really interfere with personal time leading to stress and reduces time for family and friends. Due to increased pressures in primary care, paper work on call practice management etc. CPD while obviously very worthwhile has to be squeezed in and this leads to some resentment and less time for personal reading of which only 5 points are allocated.' (GP, BMQ Ireland, specialist division)	
181		
182	Expense of participation in MI	PC

3		'I am forced to usually only choose free events and local to me due to time and financial		
4		constraints, so I do not get to actually choose the things that would be most beneficial		
5		educationally. This is because locum costs or costs from family life/babysitters etc. is too much		
6 7				
8		and if there are also course fees it is just not financially viable.' (GP, BMQ Ireland, specialist		
9		division)		
10	183			
11	103			
12				
13	184	Some felt that the allowance or subsidy that they receive for CPD activity was inadequate. Specific		
14				
15 16	185	groups of doctors such as those on maternity leave, non-partner General Practitioners (GPs), non-		
17				
18	186	consultant hospital doctors (NCHDs) and locums found it particularly challenging to cover the cost		
19				
20	187	related to meeting the requirements of MPC.		
21				
22				
23		'I feel that non-partner/non-[principal] GPs are at a significant disadvantage, the cost of CPD in		
24 25		addition to paying out of pocket for Medical council etc. None of these costs are tax deductible		
26		for us. Everything is straight out of our pocket. We do not get a payment for study leave as [GP		
27		principals/ partners] do. We also face discrimination as we have to continue to complete CPD		
28		with no maternity leave payments.' (GP, BMQ Ireland, specialist division)		
29				
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31				
32	189	Availability and quality of CDD materials		
33 34	109	Availability and quality of CPD materials		
35				
36	190	The availability of CPD to match doctors' scope of practice, and the quality of the CPD, were the		
37				
38	191	main barriers under this theme. Repetitive content, the geographical concentration of events in		
39				
40	192	Dublin, and poor availability of online courses were cited.		
41				
42 43				
44		'The standard of educational activities provided by the relevant training bodies can be quite weak		
45		and repetitive in Ireland.' (Psychiatry, BMQ Ireland, specialist division)		
46	193			
47	193			
48				
49	194	Employment Status		
50 51				
52	405			
53	195	Doctors not in fulltime clinical employment in Ireland found it challenging to meet the requirements		
54	400			
55	196	of MPC.		
56				
57		'Working as a locum or as a sessional doctor for short periods is a barrier to carrying out audit.		
58				
59 60		impossible. I was informed that I could make it up in later years. I do not think it is fair to ask		
60		impossible. I was injormed that i could make it up in later years. I do not think it is juil to ask		

1 2					
2 3 4 5 6 7 8		starting the CPD scheme and u	make up for time off on maternity leave. I moved city yearly since worked as locum, sessional work and other jobs. In that time, I also d it difficult in those years to make up points'. (GP, BMQ Ireland,		
9 10 11	197				
12 13 14	198	Record Keeping			
15 16	199	Recording of CPD activities on	cumbersome online platforms was identified as a further barrier.		
17 18		'The process of recording activ	vity through the online portal is a very tedious and time consuming.		
19		sitting down to spend a con	siderable amount of time engaging with the process is		
20 21		demoralising'. (Obstetrics and	gynaecology, BMQ Ireland, specialist division)		
22 23 24	200				
25 26 27	201	Audit			
28 29	202	Participants cited the audit as a barrier to participation in MPC. Issues relating to the audit included			
30 31 22	203	the lack of training, skills, and information provided on how to conduct an audit. Many participants			
32 33 34	204	regarded audit as a pointless exercise with no clear benefit. Others believed audit was irrelevant to			
35 36	205	their practice and "only suitable for academics". Some participants thought that the yearly audit was			
<ul> <li>206 excessive and onerous, and would prefer an audit spread over a numb</li> <li>38</li> <li>39</li> </ul>		excessive and onerous, and we	ould prefer an audit spread over a number of years.		
40 41	207				
42 43	200				
43 44	208	Suggestions for Improvement	of MPC processes		
45 46	209	The majority of respondents (58%) were not in favour of using patient feedback as part of MPC.			
47 210 48		Using feedback from colleagues also received a tepid reception with 51% agreeing that they would			
49 50 51	211	welcome it. 61% would like to see a quality improvement initiative option. Recommendations for			
52 212 improv 53			nprovement mirrored the barriers identified. Suggestions for improvement captured by the open-		
54 55	213 ended survey question are thematically outlined in Table 3 below, and ranked by frequency.				
56 57		Suggestion	Subthemes		
58		2.1 Remove or change audit	Remove audit		
59		2.1 Nemove of change dualt	Reduce audit frequency		

2				
3			Audit alternative	
4		2.2 Provide additional	Make allowances for individual circumstances	
5		support	Provide more information	
6		2.3 Increase the quality and	Provide more online courses	
7 8		range of CPD activities	Increase the quantity, quality and variety of local CPD courses	
8 9		2.4 Reduce the expense of	Subsidise CPD activities	
10		PCS and CPD courses	Provide locum cover	
11			Make expenses tax deductible	
12		2.5 Changes to current	Change points system	
13		scheme	Introduce new methods	
14			Place more emphasis on learning	
15		2 C More protected time	Make participation voluntary	
16		2.6 More protected time 2.7 Tailor PCS to specialty or	Specialty specific requirements and courses	
17		scope of practice	Recognition of non-clinical roles (i.e., credit for teaching)	
18 19	214		ovement of MPC processes ranked by frequency	
20	214	Table 5. Suggestions for impre	venient of which processes ranked by frequency	
20				
22	215			
23				
24				
25	216	The most frequent suggested	improvement was to remove or change the audit component.	
26				
27		'The requirement to complete	a full audit cycle within one year every single year encourages you	
28			small numbers so that it can all be completed in time. In my opinion,	
29 30				
31		-	y out larger audits over a period of two or three years which would	
32		provide more useful and comp	prehensive information and therefore be much more beneficial. You	
33		could easily show evidence of working on the audit every year and this should be enough to		
34		satisfy the Medical Council in my view.' (GP, BMQ Ireland, specialist division)		
35				
36	217			
37 38				
39	218	Participants felt that additiona	al support should be provided by making allowances for individual	
40	-			
41	219	circumstances and providing r	nore information.	
42		1 0		
43				
	44 Allow excess points to be carried over from one year to the next. I feel the Colleges sh		ied over from one year to the next. I feel the Colleges should be	
45		more aware and sensitive to individuals' circumstances e.g. illness, bereavement etc. (Radiology,		
46 47		BMQ Ireland, specialist division)		
47 48	220			
49				
50	221			
51				
52	222	Provision of more online CPD,	as well as improving the quality and quantity of offerings would make	
53	225			
54	223	MPC a more useful experience	e for participants.	
55				
56 57		The body should be responsib	le for providing mandatory free online and in person educational	
57 58		•		
59			mys covering an mealear apaales and speciallies. (Esychiality, DMQ	
60		non-EU, general division)		
-				

1 2		
- 3 4 5	224	
5 6 7	225	There were a variety of suggestions as to how expense of MPC could be reduced, including greater
8 9	226	subsidies, provision of locum cover, and making expenses tax deductible. Further suggestions
10 11 12	227	included making changes to how CPD points are awarded, introduction of new methods to evaluate
12 13 14	228	doctors and placing more emphasis on learning.
15 16 17 18 19		The basic premise of most educational activities being offered in these schemes as being of educational value is flawed. There is little value in sitting in a conference from an educational point of view. Learning needs to be more active and self-directed. Most CPD schemes to not facilitate this in any meaningful way. (Medical specialty, BMQ non-EU, general division)
20 21 22	229	
23 24 25	230	In Ireland doctors' entitlement to study leave varies according to role. Those not currently entitled to
26 27	231	such leave identified this as an area to be addressed.
28 29 30 31 32		We should have protected time included in our contract. It's ridiculous having to go at night in the winter and give up weekend family time to go to meetings. (GP, BMQ Ireland, general division)
33	232	
34 35 36	233	Finally, respondents suggested greater tailoring of the requirements of MPC to doctors' scope of
37 38	234	practice.
<ol> <li>39</li> <li>40</li> <li>41</li> <li>42</li> <li>43</li> <li>44</li> </ol>		PCS at the moment is general and you can fill education or courses you like. I think it would be more productive if stratified into subspecialties, that might help people stay more focused and sharp into one speciality and relevant education. (Medical specialty, BMQ non-EU, general division)
44 45	235	
46 47 48	236	Confidence in ability to meet requirements of MPC
49 50	237	87% of respondents agreed that they were confident that they could meet the requirements of MPC.
51 52 53	238	A proportional odds regression model showed that confidence in meeting requirements was related
54 55	239	to more positive attitudes to MPC, but not related to respondent characteristics e.g. gender or
56 57 58 59 60	240	division of the register.

241 In total, over 700 doctors said they were not confident that they could meet requirements. Of

these, 315 provided comments explaining why they lacked confidence. Five main reasons and

associated subthemes were identified, which are outlined in Table 4 below and ranked by frequency.

	Reason	Subthemes
	3.1 Employment status	Not in full-time practice
		Non-clinical role
		Maternity leave
		Working abroad
		Sick leave
		Career break
	3.2 Lack of time	Cover for clinical work
		Busy clinical workload
		Personal/family time
	3.3 Audit	Time
		Lack of skills, training and support
		Employment status
	3.4 Expense	
	3.5 Quantity and quality of	Lack of relevant CPD courses
	CPD courses	Not enough online courses
244	Table 4. Reasons for lacking co	onfidence in ability to meet requirements of MPC
245		
-		
246	Intention to comply with MPC	
247	77% stated that they intended	to comply with requirements. 23% were either unsure or disagreed.
248	Associations botwoon Likert	caled survey items and intention to comply were estimated using
240	Associations between likert-so	caled survey items and intention to comply were estimated using
249	proportional odds regression r	nodels. This confirmed the relationship between intention to comply
245		noucls. This communed the relationship between intention to comply
250	and positive attitudes to MPC.	weaker endorsement of barriers to MPC, stronger endorsement of
251	facilitators and stronger endor	rsement of social norms e.g. importance to patients. This was similar
	C C	
252	to the findings in relation to co	onfidence of ability to comply.
252	Delationship between gender	ragion of Pasia Madical Qualification, division of the register, role
253	Relationship between gender,	region of Basic Medical Qualification, division of the register, role,
254	service model nationality and	intent was significant only for gender and region of BMQ. Male
204	service model, nationality dilu	התכות שמש שבוות מות טוווץ וטו בכוועבו מות ובצוטוו טו בועוע. ואמופ
255	doctors and those who obtain	ed their BMQ outside Ireland were more uncertain of their intention
200		
256	to comply with the requireme	nts of MPC.
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1 2		
2 3 4	257	Discussion
5	258	
6 7 8	259	This study was the first national survey of doctors' attitudes towards Maintenance of Professional
9 10	260	Competence since its introduction in Ireland in 2011. While attitudes to MPC were generally
11 12	261	positive, up to one-third of doctors were unconvinced of its impact. The time, effort and expense
13 14 15	262	involved in MPC outweighed any perceived benefit for half of doctors. A significant minority (38%)
16 17	263	felt that MPC is a tick-box exercise and over 40% did not view MPC as important to patients or
18 19	264	colleagues, or consequential in terms of sanction from the Medical Council. Seventy-seven percent
20 21	265	of respondents stated a definite intention to comply with the requirements of MPC, which is
22 23 24	266	surprisingly low in the context of the legal requirement to do so. Those who were less certain of
24 25 26	267	intention to comply held more negative views of the process, in terms of general attitudes,
27 28	268	perception of impact on own practice and endorsement of the presence of multiple barriers to
29 30	269	participation. These findings point to the importance of convincing doctors that MPC is worthwhile.
31 32	270	Being male, or having a Basic Medical Qualification from outside Ireland also predicted greater
33 34 35	271	likelihood of not expressing firm intention to comply.
36 37	272	Engaging doctors in MPC in a meaningful way requires clear communication of the purpose of the
38 39	273	process and explicit linkage of the mandated activities to that purpose. Confusion about the
40 41 42	274	objectives of MPC and lack of evidence of its effectiveness have hampered doctors' commitment to
43 44	275	the process internationally [6, 14]. The findings of this research suggest that a similar situation
45 46	276	prevails in Ireland. While promotion of MPC and the PCS schemes in Ireland refer to doctor
47 48 49	277	competence, quality of care and patient safety [9], the requirements currently in place are aimed
49 50 51	278	primarily at assuring doctors' attendance at approved CPD sessions. The relationship between CPD
52 53	279	and competence, quality of care and patient safety is supported by limited evidence [3, 15], which
54 55	280	may explain the significant minority of doctors who were unconvinced of its impact in enhancing
56 57 58 59 60	281	standards of medical practice and reassuring the public.

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Furthermore, 49% of respondents to our survey disagreed or were ambivalent towards the statement that they match their choice of CPD to their learning needs. Qualitative comments suggest that convenient timing and location, availability and expense contribute to the choice of CPD undertaken. Thus, MPC can become a tick-box exercise, focussed on scoring the required points before the annual deadline rather than meeting learning needs. While the compulsory annual audit might have been expected to be a useful activity embedded in doctors' day-to-day practice, our findings suggest that, on the contrary, it is seen by many a time consuming and ineffective exercise. Comments suggested that the single year timeframe forces a decision to do small scale audits that have little perceived impact. This goes some way to explaining why only 53% of respondents agreed that their own practice had been impacted by participation in MPC. Removal of the audit, or change to the requirements relating to it was the most frequent suggestion to improve MPC. The literature suggests that any model of MPC that seeks to impact practice should feature a facilitated approach through activities such as regular performance review, appraisal, mentoring, etc. [3], something that is lacking in the current Irish system. Facilitation can involve exploration of learning needs, targeted choice of CPD, and linking audit to practice. It has also been shown to provide emotional support and to enhance engagement with the process [16] 

Inadequate resourcing of MPC was evident in the barriers to engagement identified by respondents. Time associated with participating in the MPC process was the greatest barrier. Heavy workload, requirement to travel and to record CPD activities, and the demands this placed on personal time were amongst the difficulties arising. Respondents repeatedly referred to the need for funded protected time for MPC, including provision of locum cover. The current strain in the Irish health system, with short-staffing and heavy service demands, can make it challenging for those entitled to study leave to take it. Time constraints are cited internationally as a barrier to MPC [17, 18]. Expense of participation in MPC was the second most endorsed barrier. Internationally the question of who should bear the expense of MPC is a hotly contested topic. Our respondents' comments echo

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the concerns of doctors in other jurisdictions that MPC is a money-making exercise for those who regulate and run programmes [15]. Doctors pay annual registration fees to the Medical Council, membership or fellowship fees to postgraduate training bodies and, professional indemnity fees. The addition of a fee for enrolment in a Professional Competence Scheme, fees for CPD activities and the associated locum cover, travel and accommodation, add up to significant expense. Respondents indicated that this is an issue particularly for doctors for whom professional expenses are not tax deductible and who may not have a CPD allowance; those working less than full-time, as non-consultant hospital doctors or salaried GPs and those taking maternity/parental or sick leave. While some doctors do have an allowance for CPD activities this varies across different groups and is not universal.

If MPC programmes are to be successful, CPD to match learning needs must be readily available and of high quality. Respondents commented that available CPD was of limited range and tended to be repetitive. Geographical location, excessive expense, inadequate advertising/notice and limited places all contributed to inaccessibility of current CPD offerings. A strong preference for greater availability of online learning was expressed, as well as greater variety and better quality courses outside Dublin. Recent work in the Irish context has documented the broad CPD needs of both GPs and hospital consultants and provides useful information to support more effective provision of CPD [19–22].

The vast majority of doctors understood what the requirements for MPC were, but many did not find PCS sufficiently flexible or information provided adequate. Foremost amongst suggestions for improvement was the provision of more information and support for doctors. Greater flexibility, reflecting recognition of the individual circumstances of doctors, e.g. sick leave, was also felt to be important. This included allowing greater flexibility between categories of points and requiring fewer points from part-time workers. The arbitrary nature of the threshold of 50 CPD points would suggest that these are reasonable suggestions.

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332	There is a subgroup of doctors for whom the combination of expense and the specific requirements
333	of MPC present a real challenge. Thirteen percent of respondents expressed lack of confidence in
334	their ability to meet MPC requirements. The main reason cited for lack of confidence was
335	employment status. Meeting the requirements of MPC is particularly challenging for those working
336	less than full-time, in locum posts, in non-clinical roles, taking maternity or sick leave and those living
337	outside Ireland for part of the year. Again, this is something that is common across other
338	jurisdictions [23]. Greater flexibility in requirements would support participation amongst this group.
339	Strengths and limitations
340	Amongst the strengths of this study are the diverse stakeholders involved in the research, the strong
341	response rate to the questionnaire and the representativeness of the respondents. Survey design
342	was undertaken in accordance with best practice, informed by literature and theory. Post hoc
343	analysis of the survey confirmed its validity. Although the response rate to the survey was excellent
344	there were still large numbers of non-responders. We cannot be sure that the findings presented
345	here represent the views of non-responders.
346	Conclusions
347	We have presented the views of over 5,000 doctors participating in MPC in Ireland. The problems
348	with implementation of MPC identified in this study are not unique to the Irish context. As MPC
349	continues to evolve internationally other jurisdictions grapple with the same challenges. Enhancing
350	doctors' engagement in MPC in Ireland will require a comprehensive strategy focussed on better
351	communication, adequate resourcing and ongoing evaluation of the process.
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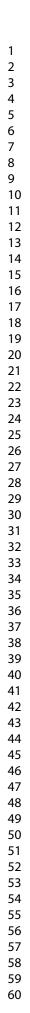
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2 3	407	Destaurtions
4	407	Declarations
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6 7	408	Ethics approval and consent to participate
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9	409	Ethical approval was granted by the Social Research Ethics Committee, University College Cork. All
10 11		
12	410	participants gave fully informed consent.
13		
14 15	411	Consent for publication
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17	412	Not applicable
18 19		
20	413	Availability of data and materials
21		
22 23	414	The datasets generated and/or analysed during the current study are not publicly available due to
24		
25	415	participants not having consented to public availability, but are available from the corresponding
26 27		
28	416	author on reasonable request.
29		
30 31	417	Competing interests
32		
33	418	EG, AW, DD and DB declare that they have no competing interests. JC and JOF are employed by the
34 35		
36	419	Medical Council, the regulator of professional competence in Ireland.
37		
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40		
41	421	This research was funded by the Health Research Board, Ireland. The funding body was not involved
42 43		
44	422	in the design of the study and collection, analysis, and interpretation of data nor in writing this
45 46	423	manuscript.
40		
48	424	Authors' contributions
49 50	424	
51	425	DD designed the study JOE AWA IC and DD designed the sweeting making JOE and JC administrated the
52	425	DB designed the study. JOF, AW, JC and DB designed the questionnaire. JOF and JC administered the
53 54	426	questionnaire and collected the data. DD performed the statistical analysis. All authors contributed
55	-	долого на политики раз на политики для на политики и дол
56	427	to the analysis and interpretation of the data. EG, AW and DB drafted the paper which was edited
57 58	420	
59	428	and approved by all authors. All authors have agreed both to be personally accountable for their
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3 4	429	own contributions and to ensure that questions related to the accuracy or integrity of any part of the
5 6 7	430	work, even ones in which the author was not personally involved, are appropriately investigated,
7 8 9	431	resolved, and the resolution documented in the literature.
10 11 12	432	Acknowledgements
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22 23	437	Health Organisation Patients for Patient Safety Ireland; Prof. Dubhfeasa Slattery, formerly Head of
24 25 26	438	Clinical Risk at the State Claims Agency, Dublin, Ireland, currently Professor of Professionalism, Royal
27 28	439	College of Surgeons of Ireland, Dublin, Ireland; Prof. Ellen O'Sullivan, Chair, Irish Forum of
29 30	440	Postgraduate Training Bodies, Dublin, Ireland; Prof. Mary Horgan, President of the Royal College of
31 32	441	Physicians of Ireland, Dublin, Ireland; Dr. Graham McMahon, President and Chief Executive Officer,
33 34 35	442	Accreditation Council for Continuing Medical Education, United States
36 37 38	443	We are grateful to Ireland's doctors who shared their perspectives with us on this important topic in
39 40 41	444	great numbers.
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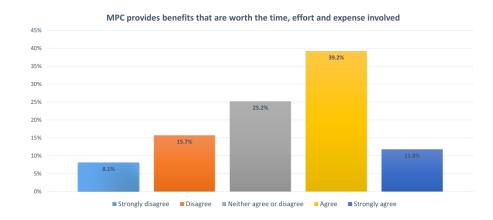
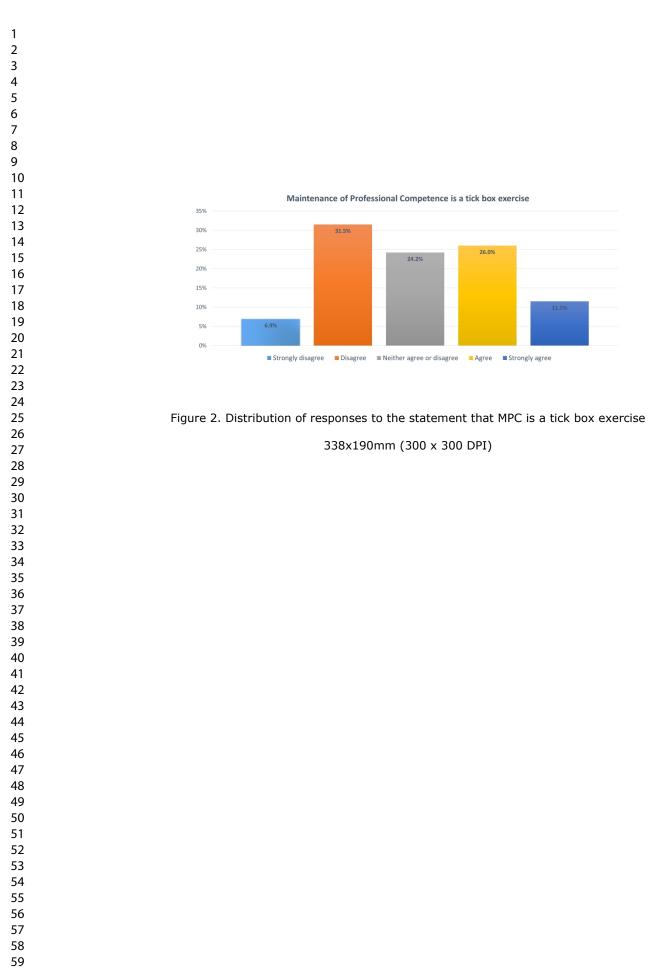


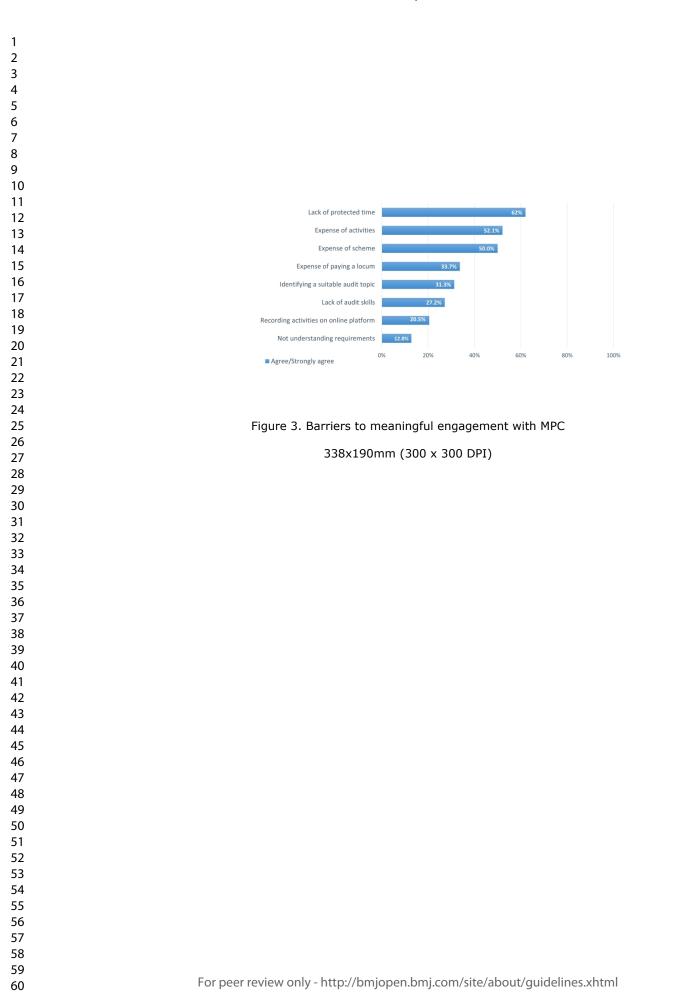
Figure 1. Distribution of responses to the statement that MPC provides benefits that are worth the time, effort and expense involved.

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### APPENDIX A – SURVEY QUESTIONNAIRE

Since 2011 doctors have been required to demonstrate Maintenance of Professional Competence by enrolling in Professional Competence Schemes and recording their educational activities. This survey is about your attitudes to and experience of participation in Maintenance of Professional Competence. Your responses should relate to your experience in IRELAND ONLY.

	Strongly	Disa	Neither	Agree	Strongly
Vaintenance of Professional Competence	disagree	2020.	agree nor disagree		agree
1. Reassures patients and the public that doctors are fit to practice	1	2 Dow	3	4	5
2. Encourages doctors to continually learn and keep up to date	1	2 <sup>v</sup> nloac	3	4	5
3. Raises the standard of practice of all doctors	1	2 ded fr	3	4	5
Participation in Maintenance of Professional Competence	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
4. Encourages me to reflect more on my professional development	1	2 mjope	3	4	5
5. Encourages me to participate in more educational activities	1		3	4	5
6. Has resulted in changes in my practice	1	2 n.bmj. 2 0m/ 0	3	4	5
7. Provides benefits that are worth the time, effort and expense involved	1	2 Apri	3	4	5
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Please indicate your agreement with these statements about BARRIERS to <b>your own</b> engagement with Maintenance of Professional Competence in Ireland	Not applicable	Strongly disagree	Disagree 0-042183 on	Neither agree nor disagree	Agree	Strongly agree
1. I do not understand what I am required to do for Maintenance of Professional Competence		1	2 10 Dec	3	4	5
2. Lack of protected time makes it difficult to undertake activities to earn points	0	1	2 Dece 2 mber	3	4	5
3. The expense of the annual Professional Competence Scheme fee is a barrier		1	2 2020.	3	4	5
4. The expense of Continuing Professional Development(CPD) activities is a barrier		1	2 Down	3	4	5
5. The expense of paying a locum to allow me to attend CPD activities is a barrier	0	1	2 Downlbaded	3	4	5
6. The requirement to record my learning activities through an online platform has been a barrier		1	2 from http://bm	3	4	5
7. Lack of audit skills has been a barrier		1	2 ://bn	3	4	5
8. Difficulty identifying a suitable audit topic has been a barrier		1	2 <sup>njo</sup> per	3	4	5
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, -	e following statements about factors which SUPPORT se of Professional Competence in Ireland	Not applicable	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongl agree
<ol> <li>The CPD activities I need to add available</li> </ol>	ress gaps in my knowledge and practice are currently		1	2 10 Dece	3	4	5
2. I can access high quality CPD act	ivities		1	2 er 2	3	4	5
<ol> <li>My Professional Competence Sc requirements</li> </ol>	heme provides enough flexible ways to meet		1	020. Down	3	4	5
<ol> <li>My Professional Competence Sc requirements</li> </ol>	heme provides useful information to help me to meet		1	2 2	3	4	5
Please indicate your agreement with the	e following statements	Not applicable	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongh agree
5. Maintenance of Professional Co	mpetence is a tick box exercise	•	1	2 <sup>uj</sup> open	3	4	5
6. I match my CPD activities to gap	s in my knowledge and practice		1	2 mj.co	3	4	5
<ol> <li>I would welcome the opportunit professional competence</li> </ol>	y to use patient feedback to demonstrate my	0	1	2 on Apri	3	4	5
8. I would welcome the opportunit professional competence	ry to use feedback from colleagues to demonstrate my	,	1	2 2024	3	4	5
<ol> <li>I would welcome the opportunit than an audit</li> </ol>	y to submit a quality improvement initiative rather	0	1	2 2	3	4	5
	n I provide to my Professional Competence Scheme ce could be used against me if my competence was in		1	Protected by	3	4	5
11. It is important to my patients th	at I meet the requirements for Professional	0	1	2 2 2	3	4	5

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# **BMJ Open**

#### Maintenance of Professional Competence in Ireland: A National Survey of Doctors' Attitudes and Experiences

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Maintenance of Professional Competence in Ireland: A National Survey of Doctors' Attitudes and Experiences

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2 3 4	1	Abstract (300 words)
5 6 7	2	<b>Objectives:</b> Programmes to ensure doctors' Maintenance of Professional Competence (MPC) have
, 8 9	3	been established in many countries. Since 2011, doctors in Ireland have been legally required to
10 11	4	participate in MPC. A significant minority has been slow to engage with MPC, mirroring the
12 13	5	contested nature of such programmes internationally. This study aimed to describe doctors'
14 15 16	6	attitudes and experiences of MPC in Ireland with a view to enhancing engagement.
17 18 19	7	Participants: All registered medical practitioners in Ireland required to undertake MPC in 2018 were
20 21	8	surveyed using a thirty-three item cross-sectional mixed-methods survey designed to elicit attitudes,
22 23 24	9	experiences and suggestions for improvement.
25 26	10	Results: There were 5,368 responses (response rate 42%). Attitudes to MPC were generally positive,
27 28	11	but the time, effort and expense involved outweighed the benefit for half of doctors. Thirty-eight
29 30 31	12	percent agreed that MPC is a tick-box exercise. Heavy workload, travel, requirement to record CPD
31 32 33	13	activities, and demands placed on personal time were difficulties cited. Additional support, as well
34 35	14	as higher quality, more varied educational activities were amongst suggested improvements.
36 37	15	Thirteen percent lacked confidence that they could meet requirements, citing employment status as
38 39	16	the primary issue. MPC was particularly challenging for those working less than full-time, in locum or
40 41 42	17	non-clinical roles, and taking maternity or sick leave. Seventy-seven percent stated a definite
42 43 44	18	intention to comply with MPC requirements. Being male, or having a basic medical qualification from
45 46 47	19	outside Ireland was associated with less firm intention to comply.
48 49	20	Conclusions: Doctors need to be convinced of the benefits of MPC to them and their patients. A
50 51	21	combination of clear communication and improved relevance to practice would help. Addition of a
52 53	22	facilitated element e.g. appraisal and varied ways to meet requirements would support
54 55 56	23	participation. MPC should be adequately resourced, including provision of high quality free
57 58 59 60	24	educational activities. Systems should be established to continually evaluate doctors' perspectives.

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5 6 7	26	Strengths and Limitations of this Study
8 9	27	Strengths include;
10 11 12	28	• Strong response rate for a national online survey of all doctors (n=5368, 42%)
13 14	29	Representativeness of the respondents
15 16	30	• Diverse stakeholders involved in the research, including patient representation
17 18 19	31	• Survey design was undertaken in accordance with best practice, informed by literature and
20 21	32	theory. Post hoc analysis of the survey confirmed its validity.
22 23 24	33	Limitations include;
25 26 27	34	Although the response rate to the survey was excellent there were still large numbers of
28 29	35	non-responders. We cannot be sure that the findings presented here represent the views of
30 31 32	36	non-responders.
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## 39 Introduction

Historically, once a doctor entered independent practice, career-long maintenance of professional
knowledge and skills was assumed [1]. In recent decades, evolving doctor-patient relationships, a
drive for accountability, and high-profile cases of malpractice [2] have led medical regulators to put
continuous evaluative processes in place to ensure that doctors are up to date and fit to practise [3].
A variety of terms are used to describe these programmes; revalidation, recertification, relicensing,
maintenance of certification and maintenance of licensure [4, 5]. In this paper, we will use the term
Maintenance of Professional Competence (MPC).

47 MPC programme requirements vary from country to country but, in general, involve educational and 48 assessment elements such as; evidence of good professional standing; participation in knowledge 49 self-assessments; examinations; quality improvement projects or audits; appraisal; peer and patient 50 feedback; and continuing professional development (CPD)[3, 5–7]. The intended outcomes of these 51 activities are manifold and include; improving patient safety and the quality of patient care; 52 encouraging doctors to commit to lifelong learning; and enhancing the continuing professional 53 development of doctors [5, 8]. While there is evidence that some MPC activities, such as interactive 54 CME/CPD, appraisal, review of patient complaints and multisource feedback, have an impact on 55 doctors' knowledge, skills, attitudes and behaviours, it is less clear that MPC significantly impacts 56 patient outcomes [3]. This has led to much debate about whether and how MPC programmes should 57 be implemented.

In keeping with international trends, in Ireland doctors have been legally mandated to participate in MPC since 2011. The Medical Council, the regulator for doctors in Ireland, has established a range of Professional Competence Schemes (PCS) to administer the process through thirteen national bodies responsible for postgraduate medical training. Doctors are required to enrol in and submit evidence of educational activities annually through a PCS. Each doctor is expected to obtain a minimum of 50 credits per year (1 credit= 1 hour) through CPD activity. A minimum requirement of 20 credits each is

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set for external and internal CPD, with the remainder coming from personal learning and
research/teaching categories. In addition, each doctor is required to complete one quality
improvement (clinical/non-clinical) audit per year [9].

Following its introduction in Ireland, a significant minority of doctors were slow to engage with MPC. By 2016, 16.3% had still not enrolled in a PCS despite a legal requirement to do so. Active measures by the Medical Council have addressed enrolment reducing this figure to 1.7% in 2018 [10]. Nonetheless, engagement remains a problem, with one postgraduate training body reporting 30% of doctors not meeting the requirements laid down by the Medical Council [11]. Failure amongst doctors to engage fully with a legal requirement linked to competence has the potential to undermine the trust the public have in their doctors. It also creates risk for employers, indemnifiers and a significant challenge for the regulator.

This paper reports a national survey of doctors in Ireland, funded by the Health Research Board
Ireland. The aim of this study was to describe doctors' attitudes, experiences and suggestions for
improvement in relation to current systems for Maintenance of Professional Competence (MPC) in
Ireland. The research was underpinned by an integrated approach to knowledge translation. The
research team included representation from a range of stakeholders; the regulator, postgraduate
training bodies, the health service and patients.

81 Methods:

## 82 Study design and setting

As the regulatory body for the medical profession in Ireland, the Medical Council has amongst its roles maintenance of the Register of Medical Practitioners and must satisfy itself as to medical practitioners ongoing maintenance of professional competence . The Register of Medical Practitioners is comprised of four divisions shown in Table 1 below. Those registered in the general, supervised and specialist division are required to participate in MPC.

#### Table 1. Divisions of the Register of Medical Practitioners

Registrants	
Medical practitioners who have not completed specialist training and do not occupy a postgraduate training post. Nineteen percent of doctors in this division are GPs.	
Medical practitioners who have completed specialist training recognised by the Council and can practise independently as a specialist. Thirty nine percent of doctors in this division are GPs.	
Medical practitioners who have been offered a post that has been approved by the national Health Service Executive (HSE), which has specific supervisory arrangements.	
Trainee specialist registration is specifically for medical practitioners who practise in individually numbered, identifiable postgraduate training posts.	
oss-sectional mixed-methods survey of all registered medical practitioners in	
Ireland mandated to participate in MPC in 2018 (n = 12,920).	
Survey instrument	
We designed a questionnaire to elicit doctors' experience, attitudes and suggestions for	
improvement of MPC. We drew on several sources to develop the questionnaire. We reviewed the	
literature, held a focus group with doctors undertaking MPC, and sought input from our knowledge-	
user research partners to identify key areas of interest. The Theory of Planned Behaviour (TPB)[12],	
acted as a sensitising concept in the design of the survey. TPB posits that an individual's attitude	
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MPC, this focussed attention not only on doctors' attitudes to MPC, and the barriers to participation

they encountered, but also on their perceptions of the attitudes of others such as patients and

colleagues, and the consequences of failure to participate. The questionnaire was piloted with a

further group of doctors (n = 30) representative of our target population, following which it was

- further revised and refined to improve clarity and length. The final version of the questionnaire
- consisted of thirty statements relating to MPC and three free text questions. A Likert-type format

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was used for the statements with five response codes ranging from 1 = strongly agree to 5 = strongly
 disagree. A copy of the questionnaire can be found in Appendix A.

#### 107 Patient Involvement

The research team included Mrs. Margaret Murphy, a patient safety advocate and then External Lead Advisor, WHO Patients for Patient Safety, a network of 200-plus patient safety champions from 51 countries. Mrs. Murphy was a member of the project steering committee. She approved the design and conduct of the study and contributed to design of the questionnaire. Patient perspectives were reflected in items addressing the impact of MPC on patient outcomes, doctors' perceptions of the importance of MPC to patients and the possibility of patient feedback contributing to doctors'

114 MPC.

### 115 Data collection

All doctors registered with the Medical Council are required to complete an online Annual Retention of Registration process. In June/July 2018, information about the survey and a link to complete it were included in the process as a pop-up targeting those in the relevant divisions of the register. The information and link were also sent in email reminders to doctors in the weeks following the annual retention process. Survey responses were linked to demographic data held by the Medical Council using registration numbers. Once the data was collated the registration numbers were removed and replaced with participant numbers to anonymise the data.

123 Data analysis

Descriptive statistics (frequencies and percentages) were generated to describe both the
 demographic characteristics of respondents and responses to each survey item. Proportional odds
 regression models were used to formally test the associations between responses to attitudinal
 items and intention to comply with the requirements of MPC. To validate the survey instrument we
 estimated a full Confirmatory Factor Analysis (CFA) model with four latent factors based on the

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various Likert response survey questions organised under headings drawn from the Theory of
Planned Behaviour; attitudes; facilitators; barriers; and social norms. To accommodate the ordered
categorical nature of the indicators, we used a robust Weighted Least Squares estimator. We
calculated factor scores for each participant based on the model result and explored associations
between these factor scores and demographic characteristics with confidence of capability to
comply with requirements of MPC and intention to comply. Thematic analysis [13] was conducted
on the responses to the open-ended survey questions.

136 Ethics

137 This study received ethical approval through the University College Cork Social Research Ethics138 Committee. Informed consent was obtained from all participants.

#### 139 Results

140 There were 5,368 responses to the survey from a population of 12, 920, giving a response rate of 141 41.5%. Men accounted for 61% of responses. Median age was 47 years (IQR 38-56). 58% were in the 142 specialist division of the register and 39% were in the general division and 0.7% in the supervised 143 division. 56% had gained their Basic Medical Qualification (BMQ) in Ireland and a further 14% within the EU. Respondents were representative of the survey population, with slight over representation 144 145 of men (61.2% vs 57.7%) and doctors registered in the general division (39.3% vs 36.5%). There was 146 good representation across specialties and countries of Basic Medical Qualification. Graduates of Irish medical schools were slightly under-represented in the General Division (29.4% vs 27.4%) and 147 148 overrepresented in the Specialist division (73.8% vs 79.4%).

The majority of respondents held positive views on the general benefits of MPC, agreeing that it
reassures patients and the public (65%), encourages doctors to continually learn and keep up to date
(77%) and raises the standard of practice of all doctors (62%). At a more personal level, being

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3 4	153	encouraged to participate in educational activities was the most agreed benefit (70%), followed
5 6 7	154	closely by being encouraged to reflect more on one's professional development (67%).
8 9	155	When the benefits were set against the time, effort and expense involved in the process only 51%
10 11	156	agreed that MPC was a worthwhile exercise (see Figure 1) and 38% agreed with the statement that
12 13 14	157	MPC was a tick box exercise (see Figure 2). MPC was considered to have resulted in changes in
15 16	158	practice by a small majority (53%). MPC wasn't seen as being particularly important to patients
17 18	159	(57%) or to colleagues (56%) and only 58% felt that non-compliance risked removal from the
19 20 21	160	register.
21 22 23 24	161	Figures 1 and 2 here
24 25 26 27	162	Barriers to participation in MPC
27 28 29	163	The main barriers to participation were lack of protected time and expense (see Fig. 3). Expense of
30 31	164	locum cover to allow participation in CPD was also a significant barrier. Audit skills were lacking in a
32 33	165	significant minority (27.2%). Doctors = 34 years of age or over 55 years were more likely to report</td
34 35 36	166	these difficulties (35% and 32% respectively p<0.001).
37 38 39	167	A small group of doctors (12.8%) did not understand what they were required to do to maintain
40 41	168	professional competence. A small majority (55%) agreed that current arrangements and information
42 43	169	were sufficient. A significant minority expressed ambivalence or dissatisfaction with their ability to
44 45	170	access high quality CPD. 49% disagreed or were ambivalent towards the statement that they match
46 47 48	171	their choice of CPD to their learning needs.
49 50	172	Respondents provided over 1,300 comments relating to barriers to meaningful participation in MPC.
51 52 53	173	Six themes, with associated subthemes, were identified, and are outlined in Table 2 below, ranked
54 55	174	by frequency. Illustrative quotes are shown along with the respondent's area of practice, area of
56 57	175	basic medical qualification (BMQ – Ireland, Other EU, non EU), and division of the register.
58 59 60	176	Figure 3 here

1 2

Barriers	Barrier Subthemes
Time involved in meeting the requirements of MPC	Time for participation in MPC activities <ul> <li>Workload</li> <li>Travel to attend CPD activities</li> <li>Recording MPC activities</li> </ul> <li>MPC time vs personal time</li>
Expense of participation in MPC	Cumulative expense of MPC Impact of expense on the selection of CPD activities Insufficient CPD funding Expense related to specific groups of doctors
Availability and quality of CPD activities	<ul> <li>Lack of relevance of CPD courses to scope of practice</li> <li>CPD too general, not specialised</li> <li>Repetitive content</li> <li>Lack of recognition of all professional activities</li> <li>Lack of value for money</li> <li>Difficulty of accessing CPD course</li> <li>Geographical location</li> <li>Short notice of upcoming CPD courses</li> <li>Poor availability of online CPD courses</li> <li>Limited number of places available on CPD courses</li> </ul>
Employment status	Working abroad • Employed outside of Ireland • Recently returned to Ireland after working abroad Not employed in Ireland (looking for jobs) Non-fulltime employment Maternity or sick leave Non-clinical role
Record-keeping	Tedious and time-consuming process Cumbersome online platform
Audit	Lack of skills, training and support Frequency of audit Lack of relevance to scope of practice Time-consuming process
Consistent with the Likert-scale	ed responses, the time and expense of participation in MPC were the
most frequently cited barriers.	
Time involved in meeting the re	equirements of MPC
and reduces time for family an on call practice management e	It day it can really interfere with personal time leading to stress ad friends. Due to increased pressures in primary care, paper work etc. CPD while obviously very worthwhile has to be squeezed in and and less time for personal reading of which only 5 points are specialist division)

183 Expense of participation in MPC

 'I am forced to usually only choose free events and local to me due to time and financial constraints, so I do not get to actually choose the things that would be most beneficial educationally. This is because locum costs or costs from family life/babysitters etc. is too much and if there are also course fees it is just not financially viable.' (GP, BMQ Ireland, specialist division)

185 Some felt that the allowance or subsidy that they receive for CPD activity was inadequate. Specific

186 groups of doctors such as those on maternity leave, non-partner General Practitioners (GPs), non-

187 consultant hospital doctors (NCHDs) and locums found it particularly challenging to cover the cost

188 related to meeting the requirements of MPC.

'I feel that non-partner/non-[principal] GPs are at a significant disadvantage, the cost of CPD in addition to paying out of pocket for Medical council etc. None of these costs are tax deductible for us. Everything is straight out of our pocket. We do not get a payment for study leave as [GP principals/ partners] do. We also face discrimination .. as we have to continue to complete CPD with no maternity leave payments.' (GP, BMQ Ireland, specialist division)

39 191 The availability of CPD to match doctors' scope of practice, and the quality of the CPD, were the

41 192 main barriers under this theme. Repetitive content, the geographical concentration of events in

193 Dublin, and poor availability of online courses were cited.

Availability and quality of CPD materials

'The standard of educational activities provided by the relevant training bodies can be quite weak and repetitive in Ireland.' (Psychiatry, BMQ Ireland, specialist division)

195 Employment Status

In the second sec

<sup>57</sup> 197 of MPC.

1 2		
3 4 5 6 7 8 9 10 11 12		'Working as a locum or as a sessional doctor for short periods is a barrier to carrying out audit. Maternity leave - possible to get external points but internal points and audit difficult to impossible. I was informed that I could make it up in later years. I do not think it is fair to ask people to do an extra audit to make up for time off on maternity leave. I moved city yearly since starting the CPD scheme and worked as locum, sessional work and other jobs. In that time, I also had a maternity leave I found it difficult in those years to make up points'. (GP, BMQ Ireland, general division)
13 14 15	198	
16 17	199	Record Keeping
18 19 20	200	Recording of CPD activities on cumbersome online platforms was identified as a further barrier.
20 21 22 23 24 25		'The process of recording activity through the online portal is a very tedious and time consuming. sitting down to spend a considerable amount of time engaging with the process is demoralising'. (Obstetrics and gynaecology, BMQ Ireland, specialist division)
26 27 28	201	
29 30	202	Audit
31 32 33	203	Participants cited the audit as a barrier to participation in MPC. Issues relating to the audit included
34 35	204	the lack of training, skills, and information provided on how to conduct an audit. Many participants
36 37 38	205	regarded audit as a pointless exercise with no clear benefit. Others believed audit was irrelevant to
39 40	206	their practice and "only suitable for academics". Some participants thought that the yearly audit was
41 42	207	excessive and onerous, and would prefer an audit spread over a number of years.
43 44 45	208	
46 47	209	Suggestions for Improvement of MPC processes
48 49 50	210	The majority of respondents (58%) were not in favour of using patient feedback as part of MPC.
51 52	211	Using feedback from colleagues also received a tepid reception with 51% agreeing that they would
53 54	212	welcome it. 61% would like to see a quality improvement initiative option. Recommendations for
55 56 57	213	improvement mirrored the barriers identified. Suggestions for improvement captured by the open-
58 59 60	214	ended survey question are thematically outlined in Table 3 below, and ranked by frequency.

¢

## 215 Table 3. Suggestions for Improvement of MPC processes ranked by frequency

	Suggestion	Subthemes
	Remove or change audit	Remove audit Reduce audit frequency Audit alternative
	Provide additional support	Make allowances for individual circumstances Provide more information
	Increase the quality and range of CPD activities	Provide more online courses Increase the quantity, quality and variety of local CPD courses
	Reduce the expense of PCS and CPD courses	Subsidise CPD activities Provide locum cover Make expenses tax deductible
	Changes to current scheme	Change points system Introduce new methods Place more emphasis on learning Make participation voluntary
	More protected time	
	Tailor PCS to specialty or	Specialty specific requirements and courses
216	scope of practice	Recognition of non-clinical roles (i.e., credit for teaching)
217	The most frequent suggested	improvement was to remove or change the audit component.
	to pick a subject dealing with you should be allowed to carr provide more useful and comp could easily show evidence of	a full audit cycle within one year every single year encourages you small numbers so that it can all be completed in time. In my opinion, y out larger audits over a period of two or three years which would prehensive information and therefore be much more beneficial. You working on the audit every year and this should be enough to my view.' (GP, BMQ Ireland, specialist division)
219		
220	Participants felt that additiona	al support should be provided by making allowances for individual
221	circumstances and providing r	nore information.
	•	ied over from one year to the next. I feel the Colleges should be ndividuals' circumstances e.g. illness, bereavement etc. (Radiology, on)
222		
223 224	Provision of more online CPD	as well as improving the quality and quantity of offerings would make
225	MPC a more useful experience	
-		

3 4 5		The body should be responsible for providing mandatory free online and in person educational activities, seminars and meetings covering all medical updates and specialties. (Psychiatry, BMQ
5 6		non-EU, general division)
7 8 9	226	
10 11	227	There were a variety of suggestions as to how expense of MPC could be reduced, including greater
12 13	228	subsidies, provision of locum cover, and making expenses tax deductible. Further suggestions
14 15 16 17 18 19	229	included making changes to how CPD points are awarded, introduction of new methods to evaluate
	230	doctors and placing more emphasis on learning.
20 21 22 23 24		The basic premise of most educational activities being offered in these schemes as being of educational value is flawed. There is little value in sitting in a conference from an educational point of view. Learning needs to be more active and self-directed. Most CPD schemes to not facilitate this in any meaningful way. (Medical specialty, BMQ non-EU, general division)
25 26	231	
27 28 29	232	In Ireland doctors' entitlement to study leave varies according to role. Those not currently entitled to
30 31 32	233	such leave identified this as an area to be addressed.
33 34 35 36		We should have protected time included in our contract. It's ridiculous having to go at night in the winter and give up weekend family time to go to meetings. (GP, BMQ Ireland, general division)
37	234	4
38 39 40	235	Finally, respondents suggested greater tailoring of the requirements of MPC to doctors' scope of
41 42 43 44 45 46 47	236	practice.
		PCS at the moment is general and you can fill education or courses you like. I think it would be more productive if stratified into subspecialties, that might help people stay more focused and sharp into one speciality and relevant education. (Medical specialty, BMQ non-EU, general division)
48 49	237	
50 51 52 53 54	238	Confidence in ability to meet requirements of MPC
	239	87% of respondents agreed that they were confident that they could meet the requirements of MPC.
55 56 57	240	A proportional odds regression model showed that confidence in meeting requirements was related
58 59	241	to more positive attitudes to MPC, but not related to respondent characteristics e.g. gender or
60	242	division of the register.

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In total, over 700 doctors said they were not confident that they could meet requirements. Of

these, 315 provided comments explaining why they lacked confidence. Five main reasons and

associated subthemes were identified, which are outlined in Table 4 below and ranked by frequency. 

Table 4. Reasons for lacking confidence in ability to meet requirements of MPC 

0	
Reason	Subthemes
Employment status	Not in full-time practice
	Non-clinical role
	Maternity leave
	Working abroad
	Sick leave
	Career break
Lack of time	Cover for clinical work
	Busy clinical workload
	Personal/family time
Audit	Time
	Lack of skills, training and support
	Employment status
Expense	
Quantity and quality of	Lack of relevant CPD courses
CPD courses	Not enough online courses
	Ċ,
Intention to comply with MPC	2

77% stated that they intended to comply with requirements. 23% were either unsure or disagreed.

Associations between Likert-scaled survey items and intention to comply were estimated using

proportional odds regression models. This confirmed the relationship between intention to comply

and positive attitudes to MPC, weaker endorsement of barriers to MPC, stronger endorsement of

facilitators and stronger endorsement of social norms e.g. importance to patients. This was similar

to the findings in relation to confidence of ability to comply.

Relationship between gender, region of Basic Medical Qualification, division of the register, role, 

service model, nationality and intent was significant only for gender and region of BMQ. Men and

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3 4	258	those who obtained their BMQ outside Ireland were more uncertain of their intention to comply
5 6 7	259	with the requirements of MPC.
8 9	260	Discussion
10 11	261	
12 13	262	This study was the first national survey of doctors' attitudes towards Maintenance of Professional
14 15	263	Competence since its introduction in Ireland in 2011. While attitudes to MPC were generally
16 17	264	positive, up to one-third of doctors were unconvinced of its impact. The time, effort and expense
18 19 20	265	involved in MPC outweighed any perceived benefit for half of doctors. A significant minority (38%)
20 21 22	266	felt that MPC is a tick-box exercise and over 40% did not view MPC as important to patients or
23 24	267	colleagues, or consequential in terms of sanction from the Medical Council. Seventy-seven percent
25 26	268	of respondents stated a definite intention to comply with the requirements of MPC, which is
27 28	269	surprisingly low in the context of the legal requirement to do so. Those who were less certain of
29 30 31	270	intention to comply held more negative views of the process, in terms of general attitudes,
32 33	271	perception of impact on own practice and endorsement of the presence of multiple barriers to
34 35	272	participation. These findings point to the importance of convincing doctors that MPC is worthwhile.
36 37	273	Being male, or having a Basic Medical Qualification from outside Ireland also predicted greater
38 39 40	274	likelihood of not expressing firm intention to comply.
41	075	
42 43	275	Engaging doctors in MPC in a meaningful way requires clear communication of the purpose of the
44 45	276	process and explicit linkage of the mandated activities to that purpose. Confusion about the
46 47	277	objectives of MPC and lack of evidence of its effectiveness have hampered doctors' commitment to
48 49 50	278	the process internationally [6, 14]. The findings of this research suggest that a similar situation
50 51 52	279	prevails in Ireland. While promotion of MPC and the PCS schemes in Ireland refer to doctor
52 53 54	280	competence, quality of care and patient safety [9], the requirements currently in place are aimed
55 56	281	primarily at assuring doctors' attendance at approved CPD sessions. The relationship between CPD
57 58 59	282	and competence, quality of care and patient safety is supported by limited evidence [3, 15], which
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283 may explain the significant minority of doctors who were unconvinced of its impact in enhancing284 standards of medical practice and reassuring the public.

Furthermore, 49% of respondents to our survey disagreed or were ambivalent towards the statement that they match their choice of CPD to their learning needs. Qualitative comments suggest that convenient timing and location, availability and expense contribute to the choice of CPD undertaken. Thus, MPC can become a tick-box exercise, focussed on scoring the required points before the annual deadline rather than meeting learning needs. While the compulsory annual audit might have been expected to be a useful activity embedded in doctors' day-to-day practice, our findings suggest that, on the contrary, it is seen by many a time consuming and ineffective exercise. Comments suggested that the single year timeframe forces a decision to do small scale audits that have little perceived impact. This goes some way to explaining why only 53% of respondents agreed that their own practice had been impacted by participation in MPC. Removal of the audit, or change to the requirements relating to it was the most frequent suggestion to improve MPC. The literature suggests that any model of MPC that seeks to impact practice should feature a facilitated approach through activities such as regular performance review, appraisal, mentoring, etc. [3], something that is lacking in the current Irish system. Facilitation can involve exploration of learning needs, targeted choice of CPD, and linking audit to practice. It has also been shown to provide emotional support and to enhance engagement with the process [16]

Inadequate resourcing of MPC was evident in the barriers to engagement identified by respondents.
 Time associated with participating in the MPC process was the greatest barrier. Heavy workload,
 requirement to travel and to record CPD activities, and the demands this placed on personal time
 were amongst the difficulties arising. Respondents repeatedly referred to the need for funded
 protected time for MPC, including provision of locum cover. The current strain in the Irish health
 system, with short-staffing and heavy service demands, can make it challenging for those entitled to
 study leave to take it. Time constraints are cited internationally as a barrier to MPC [17, 18].

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308 Expense of participation in MPC was the second most endorsed barrier. Internationally the question 309 of who should bear the expense of MPC is a hotly contested topic. Our respondents' comments echo 310 the concerns of doctors in other jurisdictions that MPC is a money-making exercise for those who 311 regulate and run programmes [15]. Doctors pay annual registration fees to the Medical Council, 312 membership or fellowship fees to postgraduate training bodies and, professional indemnity fees. The 313 addition of a fee for enrolment in a Professional Competence Scheme, fees for CPD activities and the 314 associated locum cover, travel and accommodation, add up to significant expense. Respondents 315 indicated that this is an issue particularly for doctors for whom professional expenses are not tax 316 deductible and who may not have a CPD allowance; those working less than full-time, as non-317 consultant hospital doctors or salaried GPs and those taking maternity/parental or sick leave. While some doctors do have an allowance for CPD activities this varies across different groups and is not 318 319 universal.

320 If MPC programmes are to be successful, CPD to match learning needs must be readily available and 321 of high quality. Respondents commented that available CPD was of limited range and tended to be 322 repetitive. Geographical location, excessive expense, inadequate advertising/notice and limited 323 places all contributed to inaccessibility of current CPD offerings. A strong preference for greater 324 availability of online learning was expressed, as well as greater variety and better quality courses 325 outside Dublin. Recent work in the Irish context has documented the broad CPD needs of both GPs 326 and hospital consultants and provides useful information to support more effective provision of CPD 327 [19–22].

The vast majority of doctors understood what the requirements for MPC were, but many did not
 find PCS sufficiently flexible or information provided adequate. Foremost amongst suggestions for
 improvement was the provision of more information and support for doctors. Greater flexibility,
 reflecting recognition of the individual circumstances of doctors, e.g. sick leave, was also felt to be
 important. This included allowing greater flexibility between categories of points and requiring fewer

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points from part-time workers. The arbitrary nature of the threshold of 50 CPD points would suggestthat these are reasonable suggestions.

335 There is a subgroup of doctors for whom the combination of expense and the specific requirements 336 of MPC present a real challenge. Thirteen percent of respondents expressed lack of confidence in 337 their ability to meet MPC requirements. The main reason cited for lack of confidence was 338 employment status. Meeting the requirements of MPC is particularly challenging for those working 339 less than full-time, in locum posts, in non-clinical roles, taking maternity or sick leave and those living 340 outside Ireland for part of the year. Again, this is something that is common across other jurisdictions [23]. Greater flexibility in requirements would support participation amongst this group. 341 342 Strengths and limitations 343 Amongst the strengths of this study are the diverse stakeholders involved in the research, the strong 344 response rate to the questionnaire and the representativeness of the respondents. Survey design was undertaken in accordance with best practice, informed by literature and theory. Post hoc 345 346 analysis of the survey confirmed its validity. Although the response rate to the survey was excellent 347 there were still large numbers of non-responders. We cannot be sure that the findings presented

3 348 here represent the views of non-responders.

349 Conclusions

350 We have presented the views of over 5,000 doctors participating in MPC in Ireland. The problems 351 with implementation of MPC identified in this study are not unique to the Irish context. As MPC 352 continues to evolve internationally other jurisdictions grapple with the same challenges. Enhancing 353 doctors' engagement in MPC in Ireland will require a comprehensive strategy focussed on better 354 communication, adequate resourcing and ongoing evaluation of the process.

355 Contributorship statement

356 DB designed the study. JOF, AW, JC and DB designed the questionnaire. JOF and JC administered the
 357 questionnaire and collected the data. DD performed the statistical analysis. All authors contributed

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1 2		
3 4	358	to the analysis and interpretation of the data. EG, AW and DB drafted the paper which was edited
5 6	359	and approved by all authors. All authors have agreed both to be personally accountable for their
7 8 0	360	own contributions and to ensure that questions related to the accuracy or integrity of any part of the
9 10 11	361	work, even ones in which the author was not personally involved, are appropriately investigated,
12 13	362	resolved, and the resolution documented in the literature.
14 15 16	363	Competing interests
17 18 19	364	Two of the authors, Janet O'Farrell and Jantze Cotter, are employed by the Medical Council of
20 21	365	Ireland. The Medical Council of Ireland is the regulatory body for doctors responsible for the
22 23	366	Maintenance of Competence programme that is the focus of this research.
24 25 26 27	367	Funding
28 29	368	This work was supported by the Health Research Board, Ireland, grant number APA-2016-1869.
30 31 32 33	369	Data sharing statement
34 35	370	The datasets generated and/or analysed during the current study are not publicly available due to
36 37	371	participants not having consented to public availability, but are available from the corresponding
38 39 40	372	author on reasonable request.
41 42	373	
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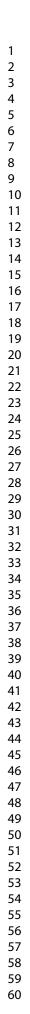
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2 3 4	428	challenges of introducing revalidation? Educ Prim Care 2011, 22:386–392.
5 6 7	429	
8	430	Figure legends
9 10	431	Figure 1. Distribution of responses to the statement that MPC provides benefits that are worth the
11 12	432	time, effort and expense involved
13 14	433	Figure 2. Distribution of responses to the statement that MPC is a tick box exercise
15 16	434	Figure 3. Barriers to meaningful engagement with MPC
$\begin{array}{c} 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ \end{array}$		Figure 3. Barriers to meaningful engagement with MPC

2		
3 4	435	Declarations
5 6 7	436	Ethics approval and consent to participate
8 9 10	437	Ethical approval was granted by the Social Research Ethics Committee, University College Cork.
11 12 13	438	Reference no. 2017-118
14 15	439	Consent for publication
16 17 18	440	Not applicable
19 20 21	441	
22 23 24	442	Acknowledgements
25 26 27	443	We would like to acknowledge the support of the Health Research Board, Ireland and the
28 29	444	contribution of our research partners; Prof. Hilary Hoey, Director of Professional Competence, Royal
30 31	445	College of Physicians of Ireland, Dublin, Ireland; Dr. Philip Crowley, National Director for Quality,
32 33	446	Health Service Executive, Dublin, Ireland; Mrs. Margaret Murphy, External Lead Advisor, World
34 35 36	447	Health Organisation Patients for Patient Safety Ireland; Prof. Dubhfeasa Slattery, formerly Head of
37 38	448	Clinical Risk at the State Claims Agency, Dublin, Ireland, currently Professor of Professionalism, Royal
39 40	449	College of Surgeons of Ireland, Dublin, Ireland; Prof. Ellen O'Sullivan, Chair, Irish Forum of
41 42	450	Postgraduate Training Bodies, Dublin, Ireland; Prof. Mary Horgan, President of the Royal College of
43 44	451	Physicians of Ireland, Dublin, Ireland; Dr. Graham McMahon, President and Chief Executive Officer,
45 46 47	452	Accreditation Council for Continuing Medical Education, United States
48 49 50	453	We are grateful to Ireland's doctors who shared their perspectives with us on this important topic in
51 52	454	great numbers.
53 54 55 56 57 58 59 60	455	

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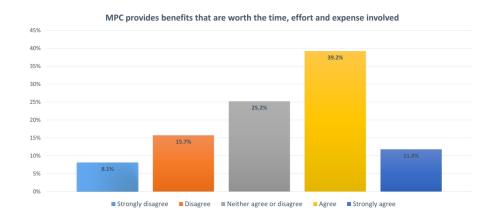
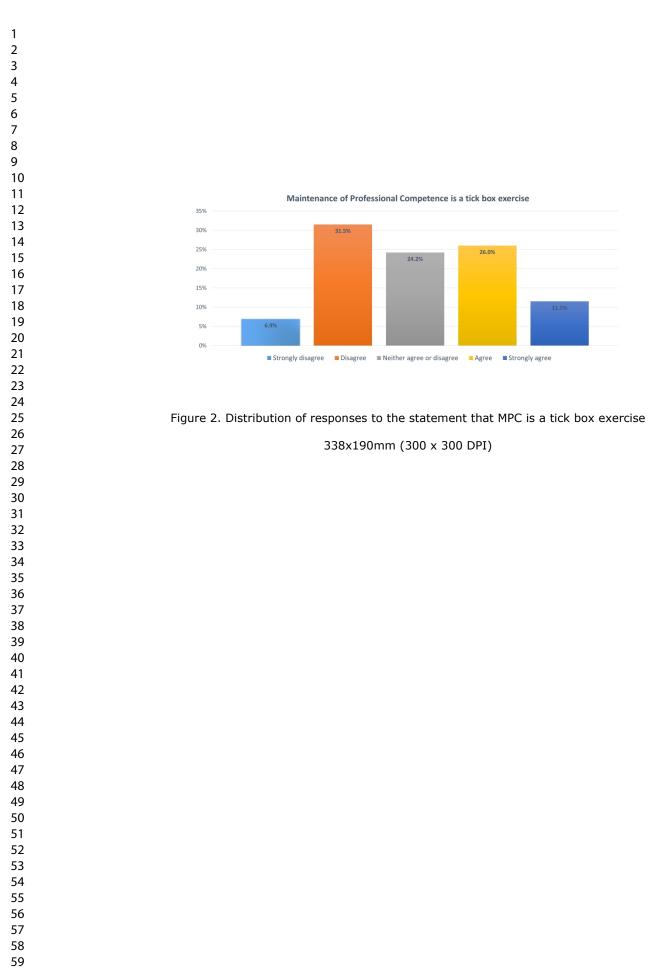


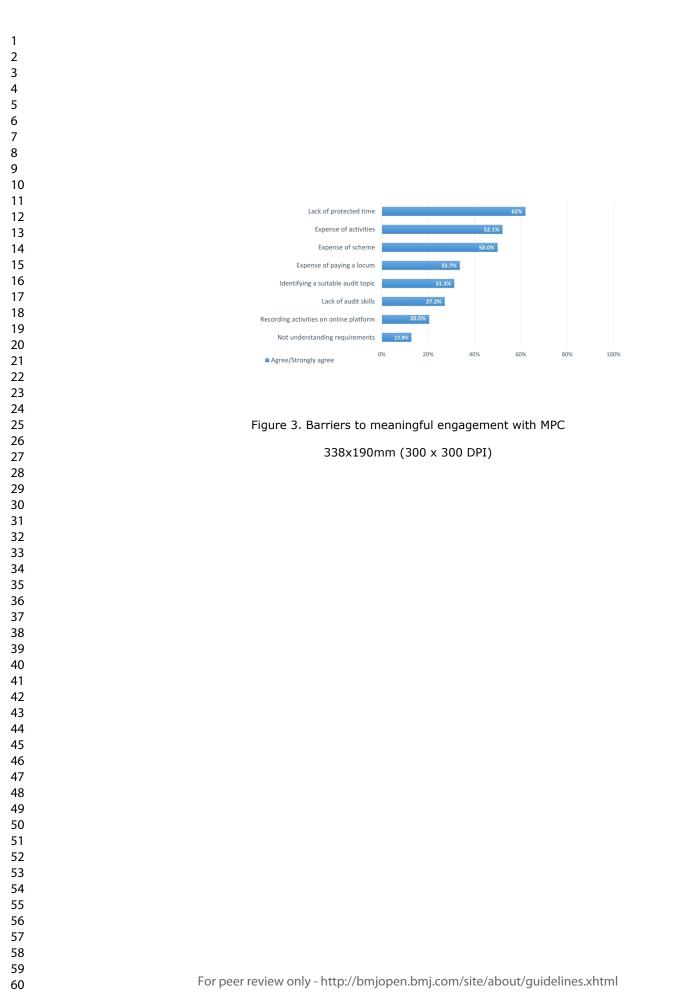
Figure 1. Distribution of responses to the statement that MPC provides benefits that are worth the time, effort and expense involved.

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# APPENDIX A – SURVEY QUESTIONNAIRE

Since 2011 doctors have been required to demonstrate Maintenance of Professional Competence by enrolling in Professional Competence Schemes and recording their educational activities. This survey is about your attitudes to and experience of participation in Maintenance of Professionad Competence. Your responses should relate to your experience in IRELAND ONLY.

	Strongly	Disa	Neither	Agree	Strongly
Aaintenance of Professional Competence	disagree	- 2020.	agree nor disagree		agree
1. Reassures patients and the public that doctors are fit to practice	1	2 Dov	3	4	5
2. Encourages doctors to continually learn and keep up to date	1	2 <sup>n</sup> loac	3	4	5
3. Raises the standard of practice of all doctors	1	2 ded fr	3	4	5
Participation in Maintenance of Professional Competence	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
4. Encourages me to reflect more on my professional development	1	2 <sup>mjope</sup>	3	4	5
5. Encourages me to participate in more educational activities	1	2 .bmj.	3	4	5
6. Has resulted in changes in my practice	1	2 com/ o	3	4	5
7. Provides benefits that are worth the time, effort and expense involved	1	2 Aprii	3	4	5
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Please indicate your agreement with these statements about BARRIERS to <b>your own</b> engagement with Maintenance of Professional Competence in Ireland	Not applicable	Strongly disagree	Disagr@e	Neither agree nor disagree	Agree	Strongly agree		
1. I do not understand what I am required to do for Maintenance of Professional Competence		1	2 10 Dec	3	4	5		
2. Lack of protected time makes it difficult to undertake activities to earn points	0	1	2 Dece 2 mber	3	4	5		
3. The expense of the annual Professional Competence Scheme fee is a barrier		1	2 2020.	3	4	5		
4. The expense of Continuing Professional Development(CPD) activities is a barrier		1	2 Down	3	4	5		
5. The expense of paying a locum to allow me to attend CPD activities is a barrier	0	1	2 Downlbaded	3	4	5		
6. The requirement to record my learning activities through an online platform has been a barrier		1	2 from http://bm	3	4	5		
7. Lack of audit skills has been a barrier		1	2 ://bn	3	4	5		
8. Difficulty identifying a suitable audit topic has been a barrier		1	2 <sup>njo</sup> per	3	4	5		
9. Please provide details of any other barriers or reasons for not participating in Ma			pj.com/ on April 18, 2024					
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, -	th the following statements about factors which SUPPORT enance of Professional Competence in Ireland	Not applicable	Strongly disagree	Disagree 0-042183 on	Neither agree nor disagree	Agree	Strongl agree
<ol> <li>The CPD activities I need t available</li> </ol>	o address gaps in my knowledge and practice are currently		1	2 Dece	3	4	5
2. I can access high quality CF	PD activities		1	2 mber 2	3	4	5
<ol> <li>My Professional Competer requirements</li> </ol>	nce Scheme provides enough flexible ways to meet		1	2 020. Down	3	4	5
<ol> <li>My Professional Competer requirements</li> </ol>	nce Scheme provides useful information to help me to meet		1	2 2	3	4	5
Please indicate your agreement wi	th the following statements	Not applicable	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongh agree
5. Maintenance of Profession	al Competence is a tick box exercise	•	1	2 Jopen	3	4	5
6. I match my CPD activities t	o gaps in my knowledge and practice		1	2 mj.co	3	4	5
<ol><li>I would welcome the oppo professional competence</li></ol>	rtunity to use patient feedback to demonstrate my	0	1	2 on Apri	3	4	5
8. I would welcome the oppo professional competence	rtunity to use feedback from colleagues to demonstrate m	/	1	2 2 2024	3	4	5
<ol> <li>I would welcome the oppo than an audit</li> </ol>	rtunity to submit a quality improvement initiative rather	0	1	2 guest. F	3	4	5
	nation I provide to my Professional Competence Scheme practice could be used against me if my competence was in		1	Protected by	3	4	5
11. It is important to my patier	nts that I meet the requirements for Professional	0	1	2 copyright	3	4	5

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STROBE Statement—Checklist of items that should be included in reports of *cross-sectional studies* 

	Item No	Recommendation	
Title and abstract	1	( <i>a</i> ) Indicate the study's design with a commonly used term in the title	See pg 1
		or the abstract	
		(b) Provide in the abstract an informative and balanced summary of	See pg 2
		what was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation	See pg 4-5
		being reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	See pg 5
Methods			
Study design	4	Present key elements of study design early in the paper	See pg 4-5
Setting	5	Describe the setting, locations, and relevant dates, including periods	See pg 7
		of recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of	See pg 7
		selection of participants	
Variables	7	Clearly define all outcomes, exposures, predictors, potential	See pg 6-7
		confounders, and effect modifiers. Give diagnostic criteria, if	
		applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of	See pg 6
measurement		methods of assessment (measurement). Describe comparability of	
		assessment methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	See pgs 6
			and 8
Study size	10	Explain how the study size was arrived at	See pg 7
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	See pgs 7-8
		applicable, describe which groupings were chosen and why	10
Statistical methods	12	( <i>a</i> ) Describe all statistical methods, including those used to control	See pgs 7-8
		for confounding	10
		(b) Describe any methods used to examine subgroups and	See pgs 7-8
		interactions	10
		(c) Explain how missing data were addressed	N/A
		( <i>d</i> ) If applicable, describe analytical methods taking account of	N/A
		sampling strategy	
		( <u>e</u> ) Describe any sensitivity analyses	N/A
Dogulta			
Results Participants	13*	(a) Report numbers of individuals at each stage of study—eg	See pg 8
1 articipants	15	numbers potentially eligible, examined for eligibility, confirmed	See pg o
		eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	N/A
			N/A N/A
Decorinting data	1/*	(c) Consider use of a flow diagram	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic,	See pg 8
		clinical, social) and information on exposures and potential	
		confounders	<b>N</b> T/A
		(b) Indicate number of participants with missing data for each	N/A

Outcome data	15*	Report numbers of outcome events or summary measures	See pg 9
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted	N/A
		estimates and their precision (eg, 95% confidence interval). Make	
		clear which confounders were adjusted for and why they were	
		included	
		(b) Report category boundaries when continuous variables were	N/A
		categorized	
		(c) If relevant, consider translating estimates of relative risk into	N/A
		absolute risk for a meaningful time period	
Other analyses	17	Report other analyses done-eg analyses of subgroups and	See pg 9
		interactions, and sensitivity analyses	
Discussion			
Key results	18	Summarise key results with reference to study objectives	See pg 16
Limitations	19	Discuss limitations of the study, taking into account sources of	See pg 19
		potential bias or imprecision. Discuss both direction and magnitude	
		of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering	See pgs 16
		objectives, limitations, multiplicity of analyses, results from similar	19
		studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	See pg 20
Other information			
Funding	22	Give the source of funding and the role of the funders for the present	See pg 23
		study and, if applicable, for the original study on which the present	
		article is based	

\*Give information separately for exposed and unexposed groups.

**Note:** An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.