Appendix 2

Perceived barriers, enablers and proposed targeted strategies to advance academic clinical cancer research in Portugal

TICD Framework	BARRIERS	ENABLERS	Potential implementation		
Domains 4. REHAVIOUR FA	CTORS: Recogniting to coods	umia aliniaal triala	strategies		
1. BEHAVIOUR FACTORS: Recruiting to academic clinical trials					
Compatibility	Narrow eligibility criteriaExpectation to use		Creation of multicentre national networks		
	Investigational Medicinal		Provide information.		
	Products from the shelf		education and feedback		
2. INDIVIDUAL HE	I ALTH PROFESSIONAL FACT	TORS	oddodion and roodback		
2.1 Knowledge and					
Domain	Lack of experience and	Training material provided	Improve dissemination of		
knowledge	guidance	by regulatory agencies and	training material		
· ·	, o	through European channels	Provide support and		
			directed guidance		
Awareness and	Underappreciation of		Develop a dissemination		
familiarity	added value of		strategy to recognise this		
	engagement of the		added value		
	Portuguese network with				
01-211	international networks	A de de la francia de la francia	Dl		
Skills needed to adhere	 Lack of experience and guidance 	 Advice from regulatory agencies 	 Develop educational strategies 		
2.2 Cognitions (inc		agendes	Strategies		
Attitudes	Lack of acknowledgment	Motivation and interest	Develop educational		
towards clinical	of academic research's	• Motivation and interest	strategies		
trials in general	potential		Strategies		
2.3 Professional behaviour					
Nature of the	Delayed responsiveness		Provide support to		
behaviour	to feasibility assessments		researchers		
	and recruitment issues		Improve effective		
	Healthcare		communication with		
	professionals'		patients		
	misperceptions of patients'				
	needs				
3. PATIENT FACTO					
Patient needs	Some patients' demands		Improve communication		
Patient beliefs	may hinder adherence		with patients Promote activities to		
and knowledge	 Limited patient's access to adequate information 		enhance patients' health		
and knowledge	to adequate information		literacy regarding clinical		
			trial participation		
			Raise awareness and disseminate available		
			clinical trials information		
4 DD0550010144	INITEDACTIONS		more broadly		
4. PROFESSIONAL					
Communication	 Lack of engagement of the Portuguese network 		Engage with international		
and influence	with international networks		networks		
	Clinicians do not engage		 Obtain endorsement by professional organisations 		
	with translational		or opinion leaders		
	researchers		or opinion loaders		

Referral processes 5. INCENTIVES AN	Portuguese hospitals are frequently contacted by the sponsor at an advanced stage of the clinical trials (or not at all) D RESOURCES		Engage with international networks
			5
Availability of	Limited availability of		Develop a more targeted
necessary	screening procedures		approach by study
resources	and/or treatments as part		sponsors to identify
	of the standard of care		research questions well- suited for Portugal
	Insufficient protected time dedicated to research		-
	High workload of	• Law n. 1739/2024, 14	
	clinicians	February, which determines	
	Cililicians	measures providing Clinical	
		Research Centres of the	
		National Health Service with	
		greater capacity and	
	• Look of toohnigs suppress	autonomyPossibility to ask advice to	
	 Lack of technical support to researchers 	EMA	
Financial	Appropriate		Improve national funding
incentives and	requirements regarding		opportunities to improve
disincentives	patient compensation		compensation for research sites
	Insufficient investment		Establish strategic
	on academic trials		partnerships with
	Limited funding		foundations, academic
	opportunities		institutions, and non-
	opportamines		governmental organisations to
			boost funding availability
	Lack of access to		
	innovative treatments in		
	academic clinical trials		
6. CAPACITY FOR	ORGANISATIONAL CHANG	E	
Mandate,		Implementation of	
authority,		autonomous management in	
accountability		health institutions (Law nr.	
		1739/2024, 14 Feb 2024).	
Priority of	Insufficient prioritisation		Engage leaders or
necessary	of academic trials		managers, consider
change			providing training for
			managers
			Persuade those
			responsible to change their
			priorities
			Ensure expedited
			contract agreements and
			overall facilitation of
			financial aspects, for
			instance related to
			procedures or travel pay if
			these expenses would
			already be on the hospital

			side (outside of the clinical			
			trial).			
7. SOCIAL, POLITICAL AND LEGAL FACTORS						
Economic constraints on the health care budget Legislation	Limited investment in academic cancer clinical research Regulatory authorities are slower than in several		Engage policy-makers to prioritise and invest in academic cancer clinical research The new European Clinical Trials Regulation			
	European countries, making the country less competitive.		(CTR), implemented since January 31, 2025, aims to streamline and harmonise the process for conducting clinical trials across EU Member States.			
Payer or funder policies		The existence of a National Health Service that supports all the costs incurred by a cancer patient is an added value that gives Portugal international competitiveness.	• Increase public investment and enhance access to clinical trials by cancer patients. This potential increase in the competitiveness of the public health service benefits the competitiveness of the national health system as a whole, which includes private hospitals, and of the country itself.			