

Table 1: Socio-demographic and professional characteristics of the study population

Characteristics	Population
Age - median [minimum, maximum]	42.32 [23, 70]
Male - n (%)	215 (20.9%)
Region	
North - n (%)	227 (22.1%)
Centre - n (%)	176 (17.1%)
Lisbon and the Tagus Valley Region - n (%)	533 (51.9%)
Alentejo - n (%)	14 (1.4%)
Algarve - n (%)	67 (6.5%)
Azores - n (%)	5 (0.5%)
Madeira - n (%)	5 (0.5%)
Workplace	
UCSP - n (%)	169 (16.5%)
URAP - n (%)	67 (6.5%)
UCC - n (%)	113 (11.0%)
Family Unit A - n (%)	206 (20.1%)
Family Unit B - n (%)	322 (31.4%)
Public Health Unit - n (%)	89 (8.7%)
Private practice - n (%)	3 (0.3%)
ARS Institution - n (%)	6 (0.6%)
ACeS Institution - n (%)	34 (3.3%)

ULS - n (%) Palliative Care Unit - n (%) Others- n (%)	7 (0.7%) 3 (0.3%) 8 (0.8%)
Career Doctor - n (%) Nurse - n (%) Technical Assistant - n (%) Diagnostic and Therapeutic technicians - n (%)	507 (49.4%) 377 (36.7%) 30 (2.9%) 106 (10.3%)
Associations Academia - n (%) Ethics' Committee - n (%) Other Research Institutes - n (%)	137 (13.3%) 34 (3.3%) 93 (9.1%)
Interest in research 1 (Not interested) - n (%) 2 - n (%) 3 - n (%) 4 - n (%) 5 (Very interested)- n (%)	46 (4.8%) 98 (9.4%) 264 (25.7%) 327 (31.8%) 292 (28,4%)
Experience No experience - n (%)	138 (13.4%)

Table 2: Factors that promote research in Primary Care in Portugal

	Characteristics	Scholarships	p-value	Grants	p-value	Training	p-value	Mentors	p-value	Private Foundation	p-value	Team	p-value	Pharma Support	p-value	FCT	p-value
Region	North	131	0,493	54	0,432	168	0,645	163	0,414	12	0,854	104	0,375	32	0,592	7	0,495
	Centre	97		51		130		126		7		85		20		6	
	Lisbon and Tagus Valley	293		124		411		375		20		275		55		27	
	Alentejo	8		6		11		9		0		4		3		0	
	Algarve	42		12		53		51		1		28		12		1	
	Azores	2		1		3		5		0		3		0		1	
	Madeira	1		2		4		5		0		2		1		0	

Work-place	UCSP	107	0,24	41	0,735	136	0,708	121	0,318	6	0,785	68	0,41	19	0,036	4	<0,001
	Family Unit A	112		49		154		144		5		102		30		6	
	Family Unit B	167		79		242		238		15		160		49		10	
	URAP	44		16		51		42		1		35		6		6	
	UCC	63		23		87		88		9		57		5		5	
	Public Health Unit	46		22		68		62		3		51		5		5	
Career	Physician	258	0,003	132	0,572	376	0,192	380	0,075	15	0,41	232	0,302	84	<0,001	17	0,104
	Nurse	235		82		295		261		19		194		24		15	

	Technical Assistant	17		7		25		21		2		14		3		0	
	Diagnostic and Therapeutic technicians	63		25		81		67		4		59		9		9	
	Other	1		3		4		5		1		3		3		0	
Degree	Medical resident	72	0,004	49	0,297	120	0,268	129	0,04	4	0,564	79	0,12	23	<0,001	3	0,594
	Medical specialist	187		83		256		251		11		153		61		14	
	Non-specialist nurse	102	0,004	37	0,361	119	0,555	98	0,16	8	0,462	74		13	<0,001	4	0,569
	Specialist nurse	133		45		177		164		11		121		11		11	
Training in Research		255	0,474	116	0,733	339	0,032	331	0,287	18	0,968	217	0,313	55	0,931	31	<0,001

Training	Post-graduation	22		7		35		35		1		18		4		4	
	Master	98		37		113		103		7		72		13		12	
	PhD	15	0,284	10	0,765	21	0,157	28	0,475	1	0,069	21	0,354	5	0,962	4	0,949
	Course with >40h	35		21		43		48		3		32		9		5	
	Course with <40h	72		35		102		93		0		53		22		7	
With interest in research		344	0,754	135	0,002	477	0,847	446	0,682	25	0,911	308	0,007	64	0,104	33	0,036
With previous experience in research		384	0,354	174	0,664	521	0,052	501	0,28	30	0,758	338	0,55	83	0,924	34	0,183
Member of a research group		107	0,448	49	0,838	135	0,003	141	0,285	12	0,249	101	0,496	29	0,407	11	0,5

Member of ethics committee	18	0,499	9	0,813	23	0,104	21	0,127	3	0,335	17	0,615	8	0,101	2	0,847
Professional with university affiliation	73	0,427	35	0,792	91	0,004	98	0,287	6	0,95	67	0,62	22	0,268	12	0,012

*FCT = Foundation for Science and Technology (public research agency under the supervision of the Ministry of Science, Technology and Education)

Table 3: Strategies for the promotion of research in Primary Care in Portugal

	Characteristics	Foundation for Science and Technology grants without exclusivity	p-value	Public grants for research	p-value	Improved access to research data	p-value	Professionalization of Ethics Committees	p-value	Single platform for submission to Ethics Committees	p-value	Approval by a single Ethics Committee for multicentric studies	p-value	Availability of support services for research	p-value
Region	North	24	0.163	136	0.308	126	0.607	29	0.934	66	0.931	38	0.432	135	0.794
	Centre	20		116		108		17		46		37		98	
	Lisbon and Tagus Valley	77		356		300		71		156		78		309	
	Alentejo	3		8		9		2		5		7		9	
	Algarve	7		46		37		9		16		2		40	
	Azores	1		5		4		1		2		0		3	
	Madeira	0		3		3		0		1		0		4	
Workplace	UCSP	21	0.059	125	0.016	68	0.028	18	0.007	54	0.273	31	0.015	86	0.34
	Family Unit A	30		134		118		25		57		40		131	
	Family Unit B	31		203		193		49		105		59		193	
	URAP	9		50		30		7		15		6		40	

	UCC	14		65		48		6		27		5		71	
	Public Health Unit	16		57		60		10		18		12		46	
Career	Physician	66		314		315		63		178		122		292	
	Nurse	44		257		188		41		79		23		220	
	Technical Assistant	6	0.782	19	0.016	23	<0.001	7	<0.001	5	<0.001	4	<0.001	20	0.797
	Diagnostic and Therapeutic technicians	16		79		56		13		26		11		62	
	Other	1		2		5		5		4		2		4	
Degree	Medical resident	19	0.958	94	0.044	108	0.005	21	0.985	66	<0.001	45	<0.001	90	0.764
	Medical specialist	47		220		207		42		112		77		0.764	
	Non-specialist nurse	18	0.782	104	0.371	79	0.001	17	0.314	24	<0.001	10	<0.001	92	0.902
	Specialist nurse	26		153		109		24		55		13		129	

Training in Research		61	0.911	296	0.27	257	0.322	49	0.207	131	0.817	86	0.075	256	0.112
Research training	Post-graduation	7	0.698	30	0.276	19	0.429	4	1	11	0.899	3	0.006	21	0.456
	Master	19		105		84		12		38		16		79	
	Doctorate	3		20		23		4		8		11		16	
	Course with >40h	8		45		36		10		27		21		36	
	Course with <40h	20		78		74		19		44		30		80	
With interest in research		88	0.074	407	0.705	358	0.612	69	0.01	173	0.871	103	0.848	371	0.304
With previous experience in research		91	0.924	443	0.061	394	0.389	75	0.033	212	0.118	126	0.014	395	0.132
Member of a research group		33	0.206	117	0.047	113	0.513	18	0.242	55	0.799	46	0.005	111	0.393
Member of ethics committee		6	0.658	21	0.354	20	0.504	6	0.615	10	0.813	8	0.411	20	0.497
Professional with university affiliation		29	0.008	75	0.008	82	0.406	15	0.772	34	0.493	34	0.007	65	0.011

	Characteristics	Institutional support for research development (n=)	p-value	Time dedicated to research (n=)	p-value	Link between academia and practice (n=)	p-value	Research network between several institutions (n=)	p-value	Accounting of research for performance evaluation of health units (n=)	p-value	Counting of research for career promotion (n=)	p-value
Region	North	116	0,764	182	0,228	90	0,23	38	0,068	50	0,603	103	0,408
	Centre	88		148		56		53		28		65	
	Lisbon and Tagus Valley	267		443		191		103		100		209	
	Alentejo	8		9		3		4		4		4	
	Algarve	40		55		20		15		12		31	
	Azores	2		4		0		2		0		1	
	Madeira	2		5		1		1		2		3	
Workplace	UCSP	81	0,531	146	0,025	43	<0,001	36	0,503	25	0,049	77	0,003
	Family Unit A	111		167		66		34		46		69	
	Family Unit B	152		270		91		76		76		111	
	URAP	37		53		31		17		5		35	
	UCC	62		97		61		22		26		61	
	Public Health Unit	51		70		45		20		7		33	
Career	Physician	227	0,003	435	<0,001	148	<0,001	117	0,125	99	0,018	156	<0,001

	Nurse	220		309		160		63		84		197	
	Technical Assistant	25		18		8		6		5		13	
	Diagnostic and Therapeutic technicians	58		83		44		26		8		48	
	Other	4		2		1		3		0		2	
Degree	Medical resident	74	0,002	134	0,006	39	<0,001	33	0,107	33	0,312	49	<0,001
	Medical specialist	153		301		109		84		66		107	
	Non-specialist nurse	95	0,001	124	0,947	49	<0,001	27	0,056	40	0,049	81	<0,001
	Specialist nurse	125		186		112		37		44		117	
Training in Research		223	0,15	395	0,009	175	0,209	97	0,876	82	0,531	205	0,059
Research training	Post-graduation	22	0,242	35	0,034	20	0,003	11	0,003	6	0,551	21	0,147
	Master	84		132		65		25		31		80	
	PhD	13		30		7		7		9		18	
	Course with >40h	27		61		9		9		9		29	
	Course with <40h	57		113		30		30		21		46	

With Interest in research	305	0,167	503	0,112	218	0,285	123	0,153	114	0,371	262	0,055
With previous experience in research	345	0,176	585	0,031	144	0,814	144	0,814	142	0,304	287	0,62
Member of a research group	92	0,214	159	0,065	39	0,782	39	0,782	43	0,512	86	0,46
Member of ethics committee	16	0,523	22	0,002	4	0,358	4	0,358	8	0,71	14	0,709
Professional with university affiliation	55	0,014	114	0,093	29	0,874	29	0,874	28	0,809	62	0,34