Melanoma detection patterns and their association with Breslow thickness: the dermatologist's role

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Título: Los patrones de detección del melanoma se relacionan con el espesor de Breslow: el papel del dermatólogo.

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To the Editor,

Despite representing only 4% of skin cancers, cutaneous melanoma (CM) accounts for more than 80% of skin cancer-related deaths¹. Prognosis is impacted by Breslow thickness (BT), which determines the T category in the AJCC TNM classification². CM can be detected during a routine skin examination³. However, many of them are still diagnosed with a high BT.

This study aims to compare BT based on the individual who initially detects the CM (patient, relative, general practitioner (GP), dermatologist, or other medical specialists). Associations between detection groups and clinical, epidemiological, and histological features were analyzed as well.

We conducted a cross-sectional multicenter study was in Galicia (Spain) predominantly including a white population. CMs diagnosed from 2021 through 2022 were included. Data were drawn from the Galician Melanoma Registry, including demographic, clinical, histological, and genetic variables. Evaluations were conducted by specially trained dermatologists using a detailed questionnaire (appendix A). The study was approved by the Pontevedra-Vigo-Ourense ethics committee with Code No. 2023/023.

Data analysis was performed using SPSS software (29.0.2.0 version). P values = 0.05 were considered statistically ignificant (Supplementary data).

A total of 928 CMs were reported from 2021 throuigh 2022, with their characteristics being showin in Table 1. The individual detecting the melanoma was recorded in 685 cases: most CMs were detected by the patient (255; 37.2%), followed by the dermatologist (232; 33.9%), relatives (114; 16.6%), the patient's GP (63; 9.2%), and other medical specialists (21; 3.1%).

Major statistical differences were reported among melanoma detection groups: dermatologists identified melanomas with the lowest BT. In the self-detection group patients were younger, with a higher percentage of women, and a higher level of education. The most common location was the lower limbs and the most common subtype was nodular melanoma. Results are shown in Table 2, including a post-hoc analysis.

In our study, 37.2% of melanomas were self-detected, which is consistent with a recent work reporting a 30.4% self-detection rate⁴. In contrast, former studies, such as the one conducted Avilés-Izquierdo et al. reported a 53% self-detection rate⁵. The lower rate in our study may reflect the older mean age of our sample, underscoring the importance of promoting early detection in this high-risk group.

Dermatologists identified melanomas with the lowest BT, while those detected by patients or relatives were thicker. Former studies reported thinner BT in melanomas identified by dermatologists vs other professionals⁵⁻⁷, though most were published 20 years ago. Our study, being more recent, may better represent current dermatological clinical practice.

Patients who self-detected melanoma were younger vs those identified by a relative or their GP. Additionally, patients whose melanoma was detected by dermatologists were also younger than those identified by GPs. As far as we know, this relationship has not been previously studied. Moreover, older patients tend to exhibit thicker melanomas^{5,8}, which reinforces the importance of educating this population on self-examination and promoting regular checks by relatives and GPs

Women self-detected melanoma more frequently than men did, as previously reported⁵. Additionally, male sex has been associated with thicker melanomas at diagnosis^{5,8,9}. These data highlight the need to raise awareness among men about regular self-examination.

College education was associated with increased self-detection, whereas those with lower educational levels relied more on their relatives or GPs. Although this relationship has not been previously studied, it is consistent with findings of thicker BT in patients with lower educational levels⁸. This underscores the need for accessible dermatological care across all socioeconomic groups to ensure timely detection and intervention. However, the association between education and self-detection should be interpreted with caution, as younger individuals are usually better educated, which may act as a confounding factor.

Melanomas detected by dermatologists and relatives were more cmmonly located on the posterior trunk, whereas self-detected melanomas were more common on the lower limbs, which is consistent with former studies^{5,9}. It has been demonstrated that melanomas in less visible areas tend to have greater BT⁵, highlighting the importance of thorough skin examinations by dermatologists and general practitioners, and educating patients on checking less visible areas.

Histologic subtype also influenced detection, with nodular melanomas more likely to be self-diagnosed, while melanoma in situ, lentigo maligna, and superficial spreading melanoma were predominantly identified by dermatologists. This is consistent with former studies^{8,6,9}, and may be due to the more rapid growth and symptoms of nodular melanoma, which make it easier for patients to detect these¹⁰.

The strengths of our study include its multicenter design and prospective data collection. Limitations include its retrospective statistical analysis, reduced precision due to the weighted mean for BT, non-mandatory reporting in the public health registry, and potential data collection challenges during the COVID-19 pandemic.

In conclusion, our study provides novel insights into melanoma detection, revealing that younger patients and those with higher educational levels are more proactive in self-detection, which happen to be findings not previously reported. While dermatologists detect melanomas with the lowest BT, they assess only a small percentage of the population. It is crucial to ensure GPs are trained to identify suspicious lesions and have proper referral pathways to dermatologists. Educational campaigns targeting high-risk groups—such as men, older adults, and individuals with lower educational levels—focusing on promoting regular self-examination can enhance outcomes as an effective strategy for secondary prevention.

Ethical Approval: The study protocol was reviewed and approved by the Research Ethics Committee of Pontevedra-Vigo-Ourense (2023/023).

Ethics statement: The study was conducted in accordance with the protocol and applicable regulations, guidelines and ethical principles originating from the Declaration of Helsinki.

Data availability statement: The data that support the findings of this study are available from the corresponding author upon reasonable request.

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Author contribution: MLR: conception and design, writing, reviewing and editing, analysis and interpretation, final approval of the version to be published; DSG: conception and design, reviewing and editing, analysis and interpretation, final approval of the version to be published; AF: conception and design, reviewing and editing, acquisition of data, final approval of the version to be published; CPP: reviewing and editing, acquisition of data, final approval of the version to be published; HJS: reviewing and editing, acquisition of data, final approval of the version to be published; BFJ: reviewing and editing, acquisition of data, final approval of the version of data, final approval of the version to be published; BFJ: reviewing and editing, acquisition of data, final approval of the version of data, final approval of the version to be published; CPG: reviewing and editing, acquisition of data, final approval of the version to be published; AFM: reviewing and editing, acquisition of data, final approval of the version to be published; CPG: reviewing and editing, acquisition of data, final approval of the version to be published; CPG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be published; AZG: reviewing and editing, acquisition of data, final approval of the version to be

published; LSG: reviewing and editing, acquisition of data, final approval of the version to be published; LFD: reviewing and editing, acquisition of data, final approval of the version to be published; RRL: reviewing and editing, acquisition of data, final approval of the version to be published; ISC: reviewing and editing, acquisition of data, final approval of the version to be published; PGC: reviewing and editing, acquisition of data, final approval of the version to be published; DSR: conception and design, reviewing and editing, acquisition of data, final approval of the version to be published; DSR: conception to be published.

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Ética de la publicación

1. ¿Su trabajo ha comportado experimentación en animales?: No

2. ¿En su trabajo intervienen pacientes o sujetos humanos?:

Sí

Si la respuesta es afirmativa, por favor, mencione el comité ético que aprobó la investigación y el número de registro.:

Research Ethics Committee of Pontevedra-Vigo-Ourense (2023/023)

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3. ¿Su trabajo incluye un ensayo clínico?:

No

4. ¿Todos los datos mostrados en las figuras y tablas incluidas en el manuscrito se recogen en el apartado de resultados y las conclusiones?:

Sí

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Table legend

- **Table 1.** Characteristics of patients and melanomas in the entire study group (n = 928).
- PE: professional education
- SSM: superficial spreading melanoma
- NM: nodular melanoma
- ALM: acral lentiginous melanoma
- LMM: lentigo maligna melanoma
- SD: standard deviation
- *LV: lost values

Characteristics	Results. N, (%)

Nº of patients	928 (100.0)	
Age, mean (SD), years	66.2 (+-16.5)	
Sex		
Male	372 (40.1)	
Female	556 (59.9)	
Education level		
Primary or less	293 (49.5)	
Secondary	80 (13.5)	
PE	70 (11.8)	
University	149 (25.2)	
Total	592 (100)	
*LV	336	
Anatomic site		
Face and neck	179 (21)	X
Scalp	13 (1.5)	
Anterior trunk	76 (8.9)	
Posterior trunk	236 (27.6)	
Upper limbs		
Right	57 (6.7)	
Left	76 (8.9)	
Lower limbs		
Right	67 (7.8)	
Left	105 (12.3)	
Acral		
Palmar	3 (0.4)	
Plantar	23 (2.7)	
Finger nails	14 (1.6)	
External genitalia	2 (0.2)	
Mucosae	3 (0.4)	
Total	854 (100)	
LV*	74	
Breslow thickness, mm		
Median	0.9	
Percentiles		
25	0.4	
50	0.9	
75	2.5	
Total	626	
LV*	302	
Histological type		
Infiltrating melanoma	615 (69)	
Melanoma in situ	278 (31)	
Total	893 (100)	
*LV	35	

Histological subtype	
SSM	390 (11 5)
	550 (44.5)
SSM in situ	111 (12.7)
NM	85 (9.7)
ALM	33 (3.8)
ALM in situ	9 (1)
LMM	70 (8)
LM In situ	114 (13)
Spitzoid melanoma	1 (0.1)
Nevoid melanoma	4 (0.5)
Desmoplastic melanoma	2 (0.2)
Other	9 (1)
Other in situ	13 (1.5)
Not classified	13 (1.5)
Not classified in situ	23 (2.6)
Total	877 (100)
*LV	51

Table 1. Characteristics of patients and melanomas in the entire study group (n=928).

PE: professional education SSM: superficial spreading melanoma NM: nodular melanoma ALM: acral lentiginous melanoma LMM: lentigo maligna melanoma SD: standard derviation.

*LV: lost values

Table 2. Analysis of clinical, histologic, and prognostic variables based on the individual who detected the melanoma.

PE: professional education

SSM: superficial spreading melanoma

NM: nodular melanoma

ALM: acral lentiginous melanoma

LMM: lentigo maligna melanoma

SD: standard deviation

* Variations in the total No. of patients in each category are due to missing data.

Characteristics	Patient N	Relative	General	Dermatologi	Other	Р	Post-hoc analysis	
	(%)	N (%)	practitioner	st N (%)	medical	value	,	
			N(%)		specialists N			
					(%)			
№ of patients (n=685)	255 (37.2)	114	63 (9.2)	232 (33.9)	21 (3.1)			
		(16.6)						
Age, mean (SD), years	61.74	72.18	70.84	64.93	69.05	<0.00	- Patient vs relative	
	(16.02)	(16.10)	(14.75)	(17.13)	(16.50)	1	(61.74 ± 16.02 vs.	
							72.18 ± 16.10; P <	
							0.001).	
							- Patient vs general	
							practitioner (61.74	
							± 16.02 vs. 70.84 ±	
							14.75; <i>P</i> = 0.001).	
							- Dermatologist vs	
							relative (64.93 ±	
							17.13 vs. 72.18 ±	
							16.10; <i>P</i> = 0.001).	
							- Breslow thickness	
							increased	
							significantly with	
					~		patient age (r =	
							0.241).	
Cou						0.022	Calf datastics	
Sex $Mala (n=281)$	07 (21)	40 (17 1)	22 (11 7)	101 (25.0)	12(4.2)	0.023	- Self-detection,	
$\frac{1}{1}$	87 (31) 168 (41 6)	48 (17.1) 66 (16.2)	33 (11.7) 20 (7.4)	101(35.9) 121(22.4)	12(4.3)		women vs men $(41.6\% \text{ yr} 21\% B -$	
remaie (11–404)	108 (41.0)	00 (10.3)	30 (7.4)	131 (32.4)	9 (2.2)		(41.0% VS. 31%, F = 0.023)	
							- Breslow thicness	
							women vs men	
							(1.81 + 2.62 vs, 2.30)	
							$+ 3.02 \cdot P = 0.040$	
							_ 0.0_) / 0.0 .0).	
Education level						<0.00	- Self-detection,	
Primary or less (n=285)	88 (30.9)	71 (24.9)	34 (11.9)	78 (27.4)	14 (4.9)	1	university	
Secondary (n=78)	25 (32.1)	14 (17.9)	3 (3.8)	32 (41)	4 (5.1)		education vs	
PE (n=67)	29 (43.3)	7 (10.4)	4 (6)	27 (40.3)	0 (0)		primary education	
University (n=145)	65 (44.8)	15 (10.3)	8 (5.5)	57 (39.3)	0 (0)		or less (44.8% vs.	
							30.9%; <i>P</i> < 0.001).	
							- Relatives,	
							university	
							education vs	
							primary education	
							or less (5.5% vs.	
							11.9%; <i>P</i> < 0.001).	

Anatomic site						<0.00	-	Posterior trunk,
Face and neck (n=112)	35 (31.2)	20 (17.8)	10 (8.9)	46 (41.1)	1 (0,1)	1		dermatologist vs
Scalp (n=11)	3 (27.3)	2 (18.2)	3 (27.3)	2 (18.2)	0 (0)			patient (34.1% vs.
Anterior trunk (n=65)	32 (49.2)	6 (9.2)	5 (7.7)	20 (30.8)	2 (3.1)			20.2%; <i>P</i> < 0.05).
Posterior trunk (n=188)	49 (26.1)	35 (18.6)	20 (10.6)	74 (39.4)	10 (5.3)		-	Posterior trunk.
Unner limbs			(,	(,	(===)			other medical
Right $(n=1/1)$	15 (34 1)	8 (18 2)	2 (4 5)	19 (13 2)	0 (0)			specialists vs
loft(n=50)	15(34.1)	11 (19 6)	2 (4:5) 6 (10 2)	15 (75.2)	0 (0) 1 (1 7)			nationt (52.6% vs
Leit (II–59)	20 (44.1)	11 (10.0)	0(10.2)	15 (25.4)	1(1.7)			
Lower limbs	26 (55.2)	0 (10 2)	4 (0 5)	0 (17)	0 (0)			20.2%; $P < 0.05$].
Right $(n=47)$	26 (55.3)	9 (19.2)	4 (8.5)	8(17)	0(0)		-	Lower limbs,
Left (n=85)	43 (50.6)	7 (8.2)	6(7.1)	29 (34.1)	0(0)			patient vs relative
Acral								(17.8% vs. 6.7%; P <
Palmar (n=1)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)			0.05).
Plantar (n=17)	8 (47.1)	3 (17.6)	1 (5.9)	3 (17.6)	2 (11.8)			
Finger nails (n=10)	5 (50)	1 (10)	1 (10)	1 (10)	2 (20)			
External genitalia (n=1)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)			
	0 (1 0 77)	= (2, 2, 5)						
Breslow thickness, mm	3 (1-8.75)	5 (3-9.5)	1 (1-2.5)	0 (0-1)	6 (0.5-6.5)	<0.00	-	Dermatologist vs
(median, inter-qualitic						1		patient (0 [0-1] vs. 3
range)								[1-8.75]; <i>P</i> = 0.001).
							-	Dermatologist vs
								relative (0 [0-1] vs. 3
								[3-9.50]; <i>P</i> < 0.001).
Histological subtype						<0.00	-	Patient: NM >
SSM (n=296)	121 (40.9)	51 (17.2)	33 (11.1)	84 (28.4)	7 (2.4)	1		Melanoma in situ
SSM in situ (n=87)	28 (32.2)	4 (4.6)	10 (11.5)	45 (51.7)	0 (0)			(LM, MES,
NM (n=59)	36 (61)	15 (25.4)	2 (3.4)	4 (6.8)	2 (3.4)			unspecified
ALM (n=21)	7 (33.3)	4 (19)	2 (9.5)	2 (9.5)	6 (28.6)			subtype) (<i>P</i> < 0.05).
ALM in situ (n=11)	2 (40)	2 (40)	0 (0)	1 (20)	0 (0)		-	Relatives:
I MM (n=57)	18 (31.6)	13 (22.8)	7 (12 3)	18 (31.6)	1 (1 8)			NM/I MM>Melano
LM In situ (n=76)	20 (26 3)	9 (11.8)	3 (3 9)	10 (51.0)	0 (0)			ma in situ (SSM
Spitzoid molanoma	20 (20:3)	0 (0)	0 (0)		0 (0)			(D < 0.05)
(n=1)	1(100)	0 (0)	0 (0)	1 (22 2)	0 (0)			Subtype) ($F < 0.05$).
	2 (00.7)	0 (0)	0(0)	1 (55.5)	0(0)		-	Dermatologist.
Nevola melanoma	1 (100)	0 (0)	0(0)	0 (0)	0(0)			o ivielanoma in
(n=3)	4 (80)	1 (20)	0(0)	0(0)	0(0)			situ (any
Desmoplastic melan.	0 (0)	0 (0)	1 (9.1)	9 (81.8)	1 (9.1)			histological
(n=1)	2 (20)	4 (40)	2 (20)	1 (10)	1 (10)			subtype) >
Other (n=5)	4 (18.2)	2 (9.1)	0 (0)	14 (63.6)	2 (9.1)			NM/SSM/ALM
Other in situ (n=11)								(<i>P</i> < 0.05).
Not classified (n=10)								o LMM/MES>N
Not classified in situ								M (<i>P</i> < 0.05).
(n=22)								o ALM>NM/SSM
								/LMM (P <
								0.05).

Table 2. Analysis of clinical, histologic, and prognostic variables based on the individual who detected the melanoma.

PE: professional education

SSM: superficial spreading melanoma

NM: nodular melanoma

ALM: acral lentiginous melanoma

LMM: lentigo maligna melanoma

SD: standard derivation.

* Variations in total number of patients in each category are due to missing data.

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