

Melanoma



Melanoma

Clinical manifestations

Risk factors

Clinical diagnosis and diagnostic techniques

Staging

Patient care pathway

Prevention



Melanoma

Some figures

2000-2500 new diagnoses of MM per year in Belgium

11 millions: 0,018-0,023%

1/10 patients with MM will develop a 2nd MM in 10 years

50% of MM diagnosis is made by the patient him/herself

Most frequent site:

- males: back
- females: legs

50% of MM develop in pre-existing naevi

50% of MM develop de novo

100-150 MM related deaths per year



Melanoma

Some figures

Lifetime risk for MM: males: 1 in 28

Lifetime risk for MM: females: 1 in 44

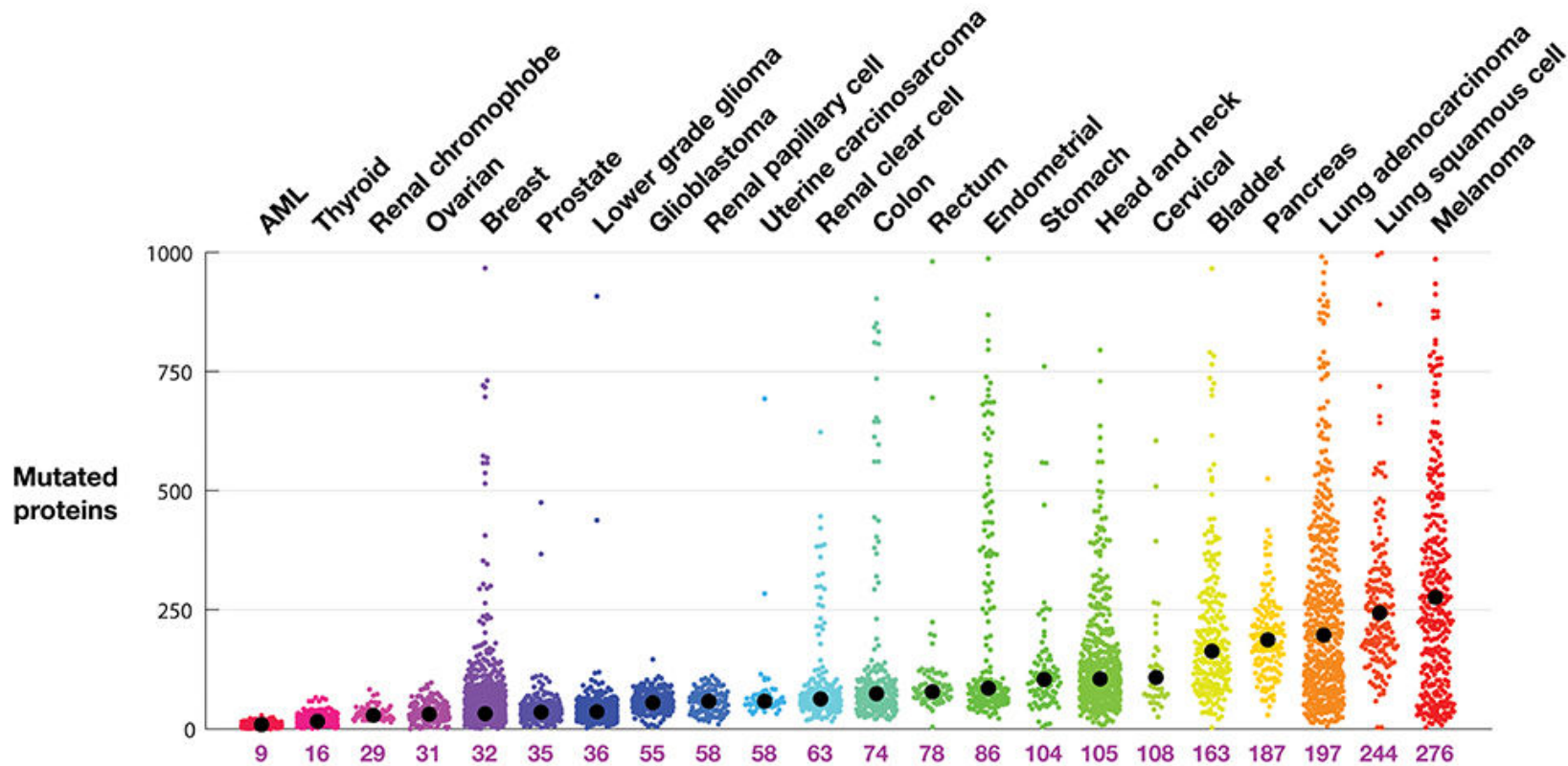
USA: 2017: invasive MM: 87100
in situ MM: 63000

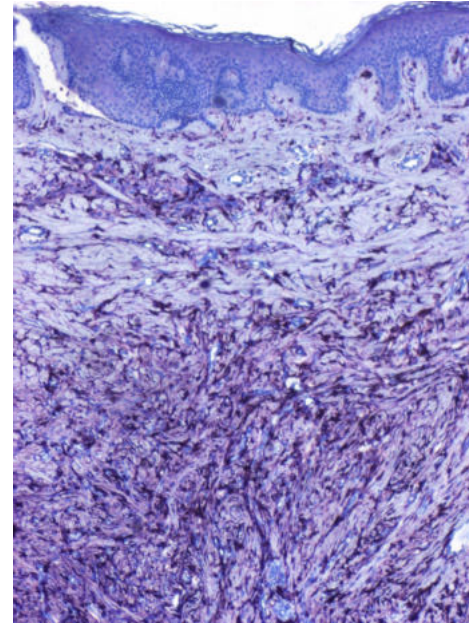
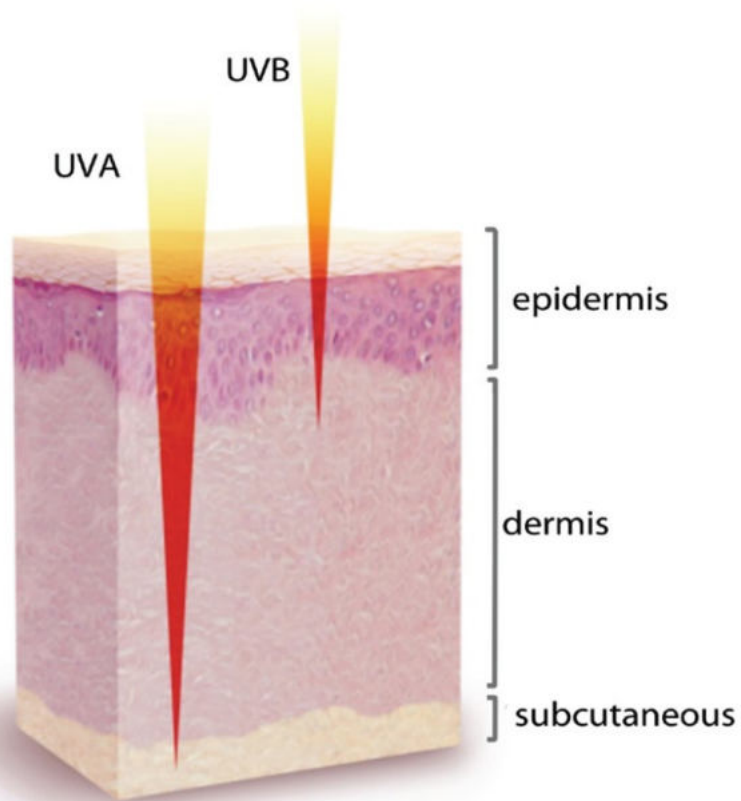
2016: 323 millions: invasive 0,027%
in situ 0,019%
0,046%

Survival rates (5-y) White Black

Localized	98	90
Regional	63	47
Metastatic	18	22

Mutational charge of melanoma







Melanoma Clinical manifestations

Dubreuilh's melanoma





Melanoma Clinical manifestations

Dubreuilh's melanoma

10% of the cases

Difficult clinical margins

Long indolent periods

Hidden deep invasion





Melanoma Clinical manifestations

Dubreuilh's melanoma





Melanoma Clinical manifestations

SSM melanoma

70% of MM cases





Melanoma Clinical manifestations

SSM melanoma





Melanoma Clinical manifestations

SSM melanoma





Melanoma Clinical manifestations

Nodular melanoma



5% of MM cases



Melanoma Clinical manifestations

Nodular melanoma





Melanoma Clinical manifestations

Nodular melanoma





Melanoma Clinical manifestations

Acrolentiginous melanoma

5 % of MM cases





Melanoma Clinical manifestations

Acrolentiginous melanoma





Melanoma Clinical manifestations

Acrolentiginous melanoma





Melanoma Clinical manifestations

Atypical melanoma

10% of MM cases

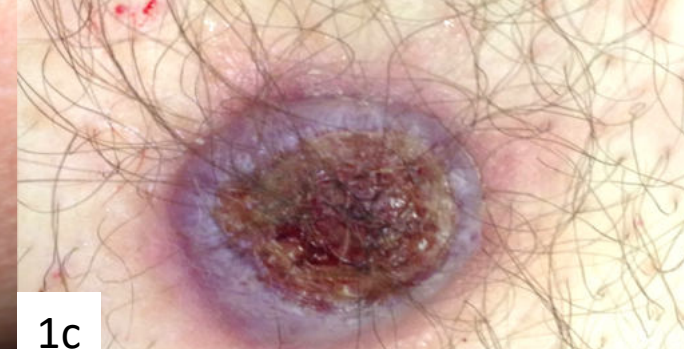
[Melanoma masquerading as nonmelanocytic lesions.](#)

Detrixhe A, Libon F, Mansuy M, Nikkels-Tassoudji N, Rorive A, Arrese JE, Quatresooz P, Reginster MA, Nikkels AF.

Melanoma Res. 2016 Dec;26(6):631-634.



1a



1c



1f



1b



1d



1e



1g



Melanoma Clinical manifestations

Metastatic melanoma





Melanoma Clinical manifestations

Metastatic melanoma





Melanoma Clinical manifestations

Metastatic melanoma





Melanoma

Risk factors

- UV exposure
- Number of moles (both normal and atypical)
- Fair skin, freckling, light hair
- Family history of melanoma
- Personal history of melanoma
- Immunosuppression
- Age: Risk increases with age
- Gender: Males > females
- Xeroderma pigmentosum

OTR: risk increases, prognosis worse

Donor-derived MM:
Screening of donor

Women with MM during pregnancy and 1 st year after:
increased risk for recurrence



Melanoma

Risk factors

Tall stature: increased risk

Coffee:
chemopreventive effect?

PDE-5 inhibitors (Viagra)
Increased risk for MM and BCC

Sildenafil: idem (needs confirmation)

- UV exposure
- Number of moles (both normal and atypical)
- Fair skin, freckling, light hair
- Family history of melanoma
- Personal history of melanoma
- Immunosuppression
- Age: Risk increases with age
- Gender: Males > females
- Xeroderma pigmentosum



Melanoma

Risk factors

Figure 3 – Clinical risk factors for melanoma ⁽⁴⁾

	Relative Risk
Genetic Factors	
1. Strong family history	35-70
2. Weak family history	3
Naevi	
1. Multiple benign naevi (>100)	11
2. Multiple atypical naevi	11
Previous skin factors	
1. Previous melanoma	8.5
2. Previous non-melanoma skin cancer	2.9
Immunosuppression	
1. Transplant recipients	3
2. AIDS	1.5
Sun sensitivity	
1. Type 1 skin (sunburn easily)	1.7
2. Freckling	2.5
3. Blue eyes	1.6
4. Red hair	2.4
UV exposure	
1. History of blistering sunburn	2.5

Please remember:

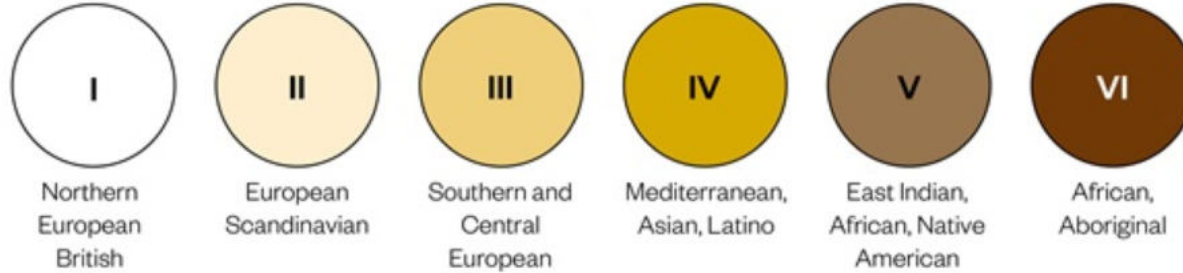
A dysplastic naevus is
NOT a precancerous lesion



Melanoma

Risk factors

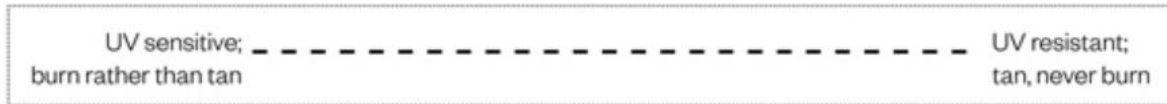
Pigmentary phototype (Fitzpatrick scale)



Epidermal melanin



UV phenotype



Cancer risk





Melanoma

Risk factors



TANNINGBEDS

INCREASE RISK OF MELANOMA BY

75%

WWW.CUREMELANOMA.ORG



Dysplastic naevi with family history of malignant melanoma

Relative risk compared to 1

400

100

50

Multiple (>100) melanocytic naevi

Congenital naevus (>1.5 cm diameter)

10

Previous malignant melanoma

Red hair/blue eyes

burn in sun/tan poorly

1

Major risk factors

Naevi



Melanoma

Risk of subsequent MM after MM diagnosis

Cumulative lifetime risk of subsequent MM = 20%













Melanoma risk factors



Clinical diagnosis and diagnostic technics

Clinical recognition - ABCDE Algorithm

NORMAL		CANCEROUS
	A: ASYMMETRY If you draw a line through the centre of the lesion, the two halves of a melanoma won't match.	
	B: BORDER IRREGULARITY The border of a melanoma is irregular, typically geographic: peninsulas, bays, islands.	
	C: COLOUR VARIEGATION Healthy moles are a uniform colour. A variety of different colours in the same lesion is suspicious.	
	D: DIAMETER > 6 MM Greater than 6 mm is suspicious, although melanomas can be smaller.	
	E: EVOLVING Recent change in size, shape or colour, or bleeding or scabbing are suspicious.	

Dermoscopy

Hand-held dermatoscopes



Oil-immersion



Polarized light





Melanoma risk factors

Clinical diagnosis and diagnostic techniques

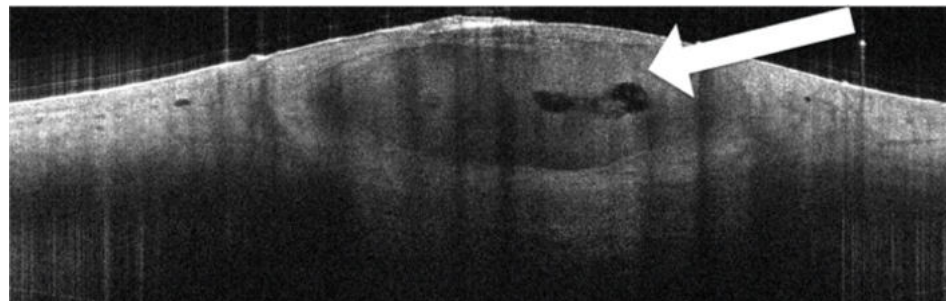
Nevisense



20 Mhz echography



Optical coherence tomography (OCT)



Histology and immunohistology

KI67 rate

Tyrosinase

S-100a

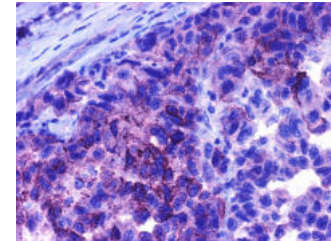
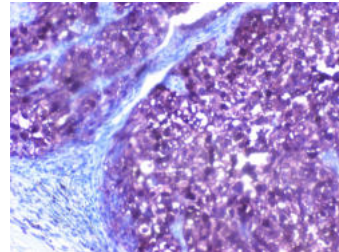
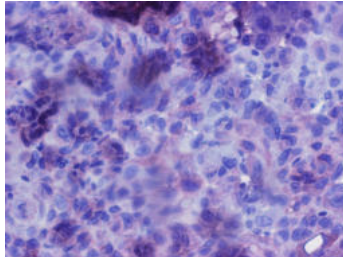
Melan-A

HMB-45

BRAF

Genetic analysis

Breslow depth



Excision

No biopsy



Melanoma risk factors



Department of Dermatology

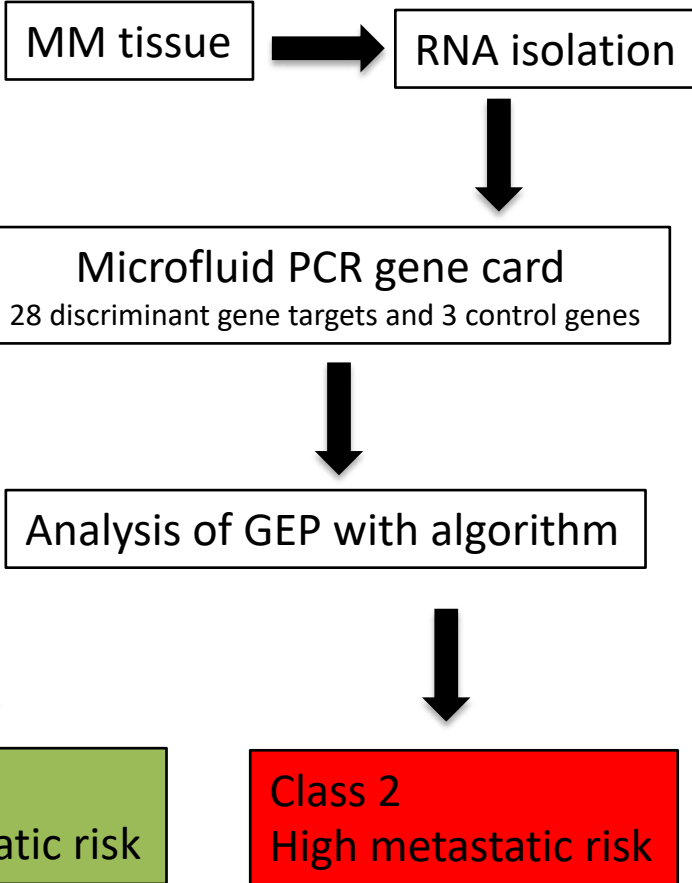
Centre Hospitalier Universitaire de Liège

Clinical diagnosis and diagnostic techniques

GEP: gene expression profile

Melanoma 31-GEP test

Change in clinical approach ????????



Class 1
Low metastatic risk

Class 2
High metastatic risk



Melanoma

MM survival



Diagnostic techniques

Diagnosis of early MM
Lesion depth: ↓



These MM are not responsible for a lethal outcome

Rapid growing MM
Amelanotic MM
Atypical MM



Difficult and delayed diagnosis





Melanoma

Surveillance strategies

50% of MM develop
in pre-existing naevi



Clinical examination: Total body examination
Lesion-directed examination
High-risk patients: DDS

50% of MM develop
de novo

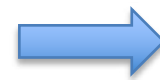


Rapid diagnosis consultation

Lesion-directed diagnosis



Regular
circuit



Rapid
circuit



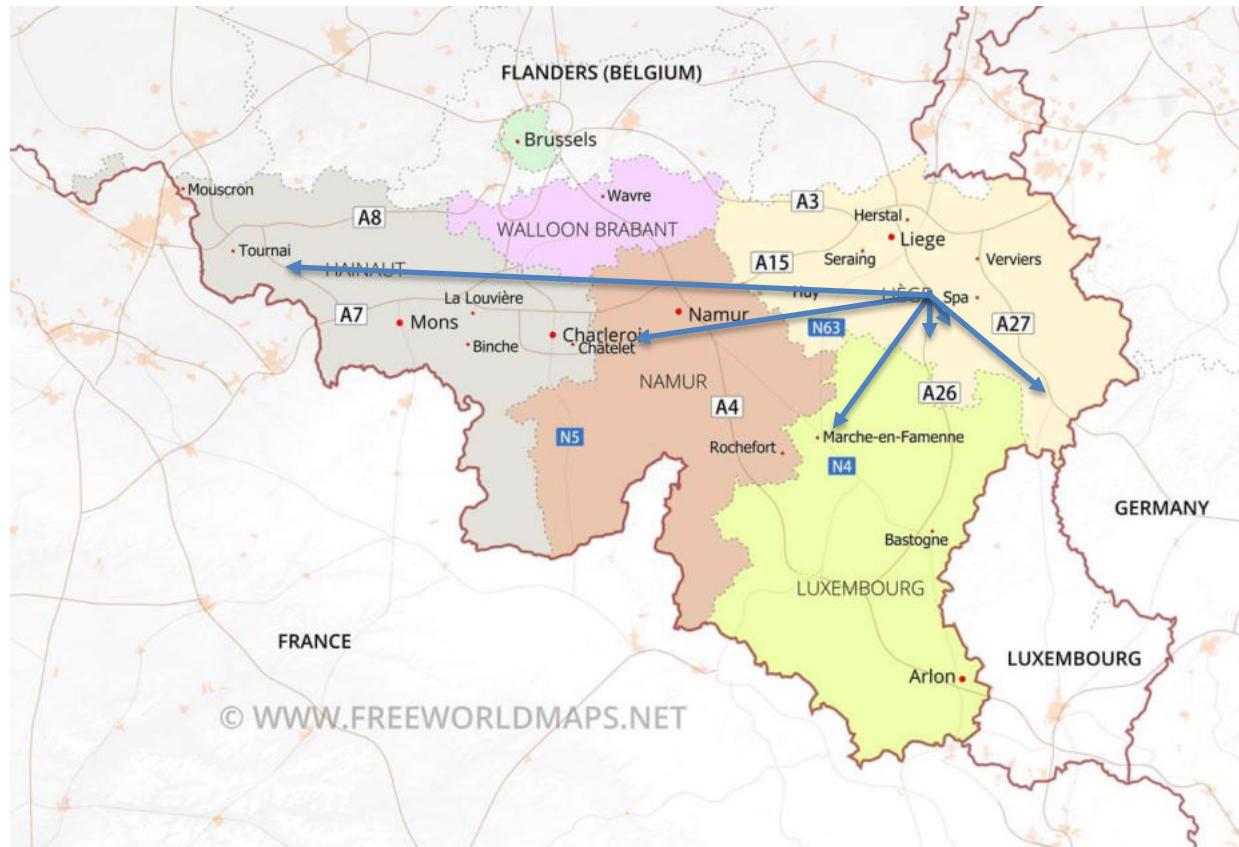
Melanoma

TELESPOT project

7 GP center

Teledermoscopy

Application on Iphone





Staging

Definitions

Primary Tumor (T)

TX Primary tumor cannot be assessed (for example, curettaged or severely regressed melanoma)

T0 No evidence of primary tumor

Tis Melanoma in situ

T1 Melanomas 1.0 mm or less in thickness

T2 Melanomas 1.1 - 2.0 mm

T3 Melanomas 2.1 - 4.0 mm

T4 Melanomas more than 4.0 mm

NOTE: a and b subcategories of T are assigned based on ulceration and thickness as shown below:

T CLASSIFICATION	THICKNESS (mm)	ULCERATION STATUS
T1	≤1.0	a: Breslow < 0.8 mm w/o ulceration b: Breslow 0.8-1.0 mm w/o ulceration or ≤ 1.0 mm w/ ulceration.
T2	1.1-2.0	a: w/o ulceration b: w/ ulceration
T3	2.1-4.0	a: w/o ulceration b: w/ ulceration
T4	>4.0	a: w/o ulceration b: w/ ulceration

Regional Lymph Nodes (N)

NX Patients in whom the regional nodes cannot be assessed (for example previously removed for another reason)

N0 No regional metastases detected

N1-3 Regional metastases based on the number of metastatic nodes, number of palpable metastatic nodes on clinical exam, and presence or absence of MSI*

NOTE: N1-3 and a-c subcategories assigned as shown below:

N CLASSIFICATION	# NODES	CLINICAL DETECTABLE LYMPH NODE STATUS
N1	0-1 node	a: clinically occult ¹ , no MSI* b: clinically detected ¹ , no MSI* c: 0 nodes, MSI present ²
N2	1-3 nodes	a: 2-3 nodes clinically occult ¹ , no MSI* b: 2-3 nodes clinically detected ¹ , no MSI* c: 1 node clinical or occult ¹ , MSI present ²
N3	>1 nodes	a: >3 nodes, all clinically occult ¹ , no MSI* b: >3 nodes, ≥1 clinically detected ¹ or matted, no MSI* c: >1 nodes clinical or occult ¹ , MSI present ²

Distant Metastasis (M)

M0 No detectable evidence of distant metastases

M1a Metastases to skin, subcutaneous, or distant lymph nodes

M1b Metastases to lung

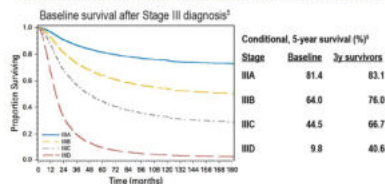
M1c Metastases to all other visceral sites

M1d Metastases to brain

NOTE: Serum LDH is incorporated into the M category as shown below:

M CLASSIFICATION	SITE	Serum LDH
M1a-d	Skin/subcutaneous/nodule (a), lung (b) other visceral (c), brain (d)	Not assessed
M1a-d(0)	Skin/subcutaneous/nodule (a), lung (b) other visceral (c), brain (d)	Normal
M1a-d(1)	Skin/subcutaneous/nodule (a), lung (b) other visceral (c), brain (d)	Elevated

ANATOMICAL STAGE/PROGNOSTIC GROUPS									
Clinical Staging ¹					Pathologic Staging ²				
Stage 0	Tis	N0	M0	0	Tis	N0	M0		
Stage IA	T1a	N0	M0	IA	T1a	N0	M0		
Stage IB	T1b	--	--		T1b	--	--		
	T2a	--	--	IB	T2a	--	--		
Stage IIA	T2b	N0	M0	IIA	T2b	M0	M0		
	T3a	--	--		T3a	--	--		
Stage IIB	T3b	--	--	IIB	T3b	--	--		
	T4a	--	--		T4a	--	--		
Stage IIC	T4b	--	--	IIC	T4b	--	--		
Stage III	Any T	≥N1	M0	IIIA	T1-2a	N1a	M0		
	--	--	--		T1-2a	N2a	--		
	--	--	--	IIB	T0	N1b-c	M0		
	--	--	--		T1-2a	N1b-c	--		
	--	--	--		T1-2a	N2b	--		
	--	--	--		T2b-3a	N1a-2b	--		
	--	--	--	IIC	T0	N2b-c	M0		
	--	--	--		T0	N3b-c	--		
	--	--	--		T1a-3a	N2c-3c	--		
	--	--	--		T3b-4a	Any N	--		
	--	--	--		T4b	N1a-3c	--		
	--	--	--		T4b	N2a-c	--		
Stage IV	Any N	Any N	M1	IV	Any T	Any N	M1		



Notes

¹Nodes are designated as 'clinically detectable' if they can be palpated on physical exam and are confirmed melanoma by pathology following excision/biopsy.

²MSI comprise any satellite, locally recurrent, or in-transit lesions.

³Clinical staging includes microstaging of the primary melanoma and clinical/radiologic evaluation for metastases. By convention it should be used after complete excision of the primary melanoma with clinical assessment for regional and distant metastases.

⁴Pathologic staging includes microstaging of the primary melanoma and pathologic information about the regional lymph nodes after partial or complete lymphadenectomy. Pathologic Stage 0 and 1 patients are the exceptions; they do not necessarily require pathologic evaluation of their lymph nodes. Physicians should 'discuss and consider' SLNB for patients with T1b Stage IA disease; physicians should 'discuss and offer' SLNB for patients with Stage IB disease.

⁵From Haydu et al., Journal of Clinical Oncology, 2017.



Melanoma



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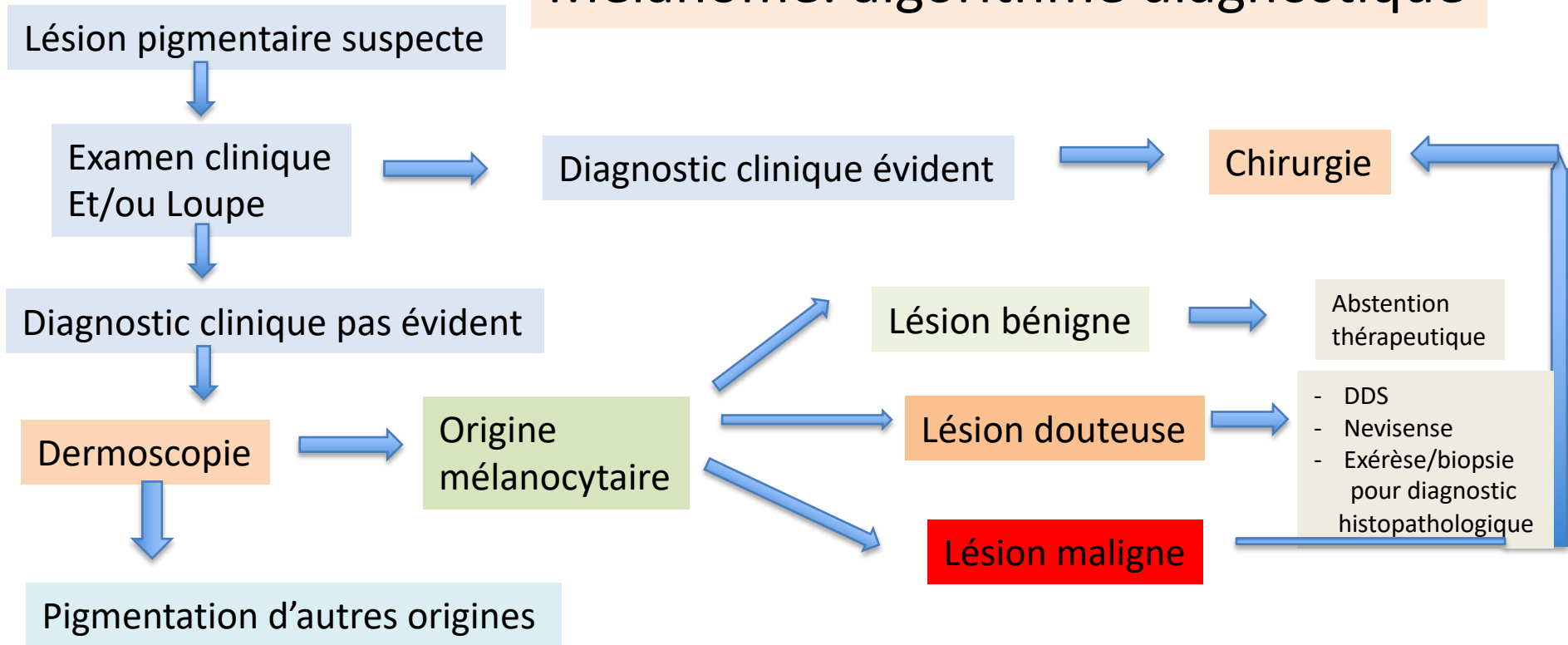
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Patient care pathway



Trajet de soins en dermato-oncologie

Mélanome: algorithme diagnostique





Mélanome

Lésion pigmentaire hautement suspecte
Mélanome



Echographie 20 Mhz



> 1 mm d'épaisseur



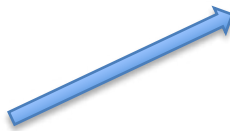
Excision chirurgicale
avec 2 cm de marge
Ganglion sentinelle si
possible



< 1 mm d'épaisseur



Excision chirurgicale avec 1 cm de marge



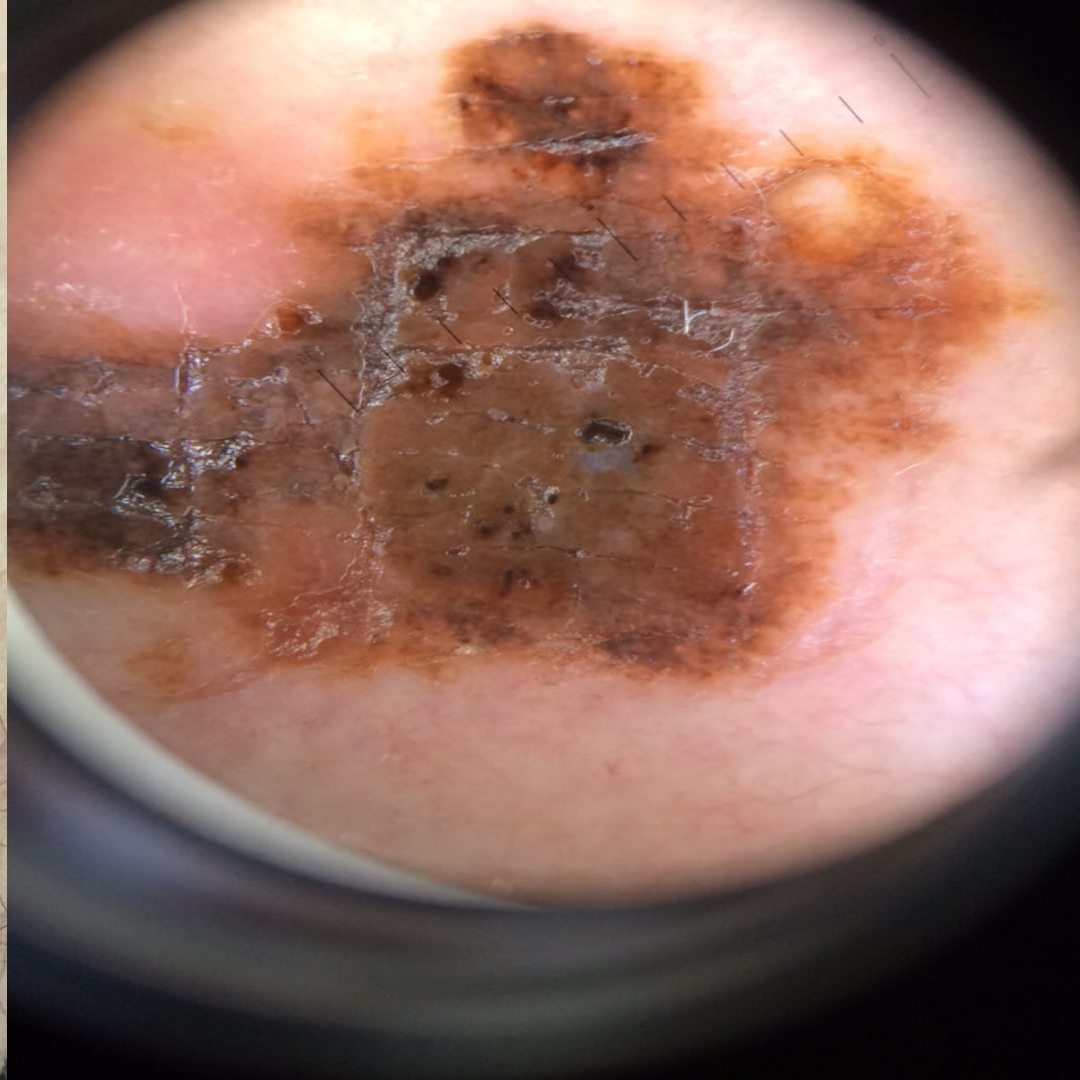
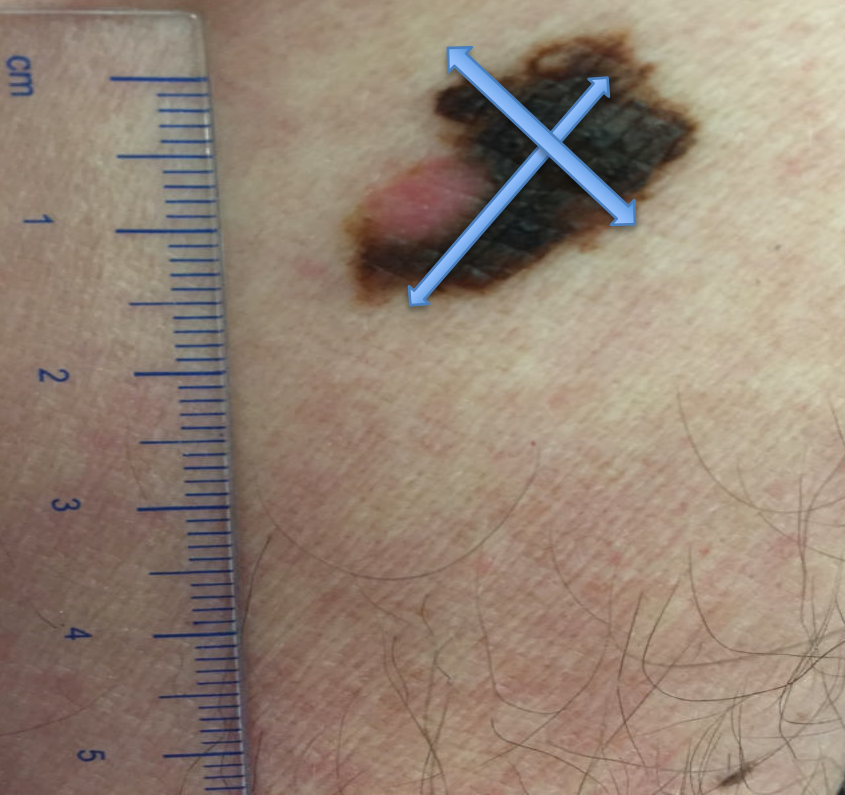
Histologie < 1mm mais

- Ulcération
- Mitoses: 2 ou >
- Micrométastases

Histologie < 1mm



Suivi clinique dermatologie

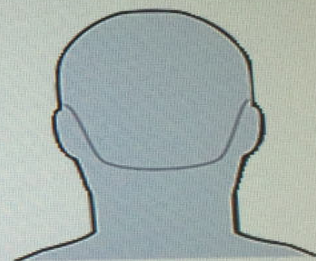
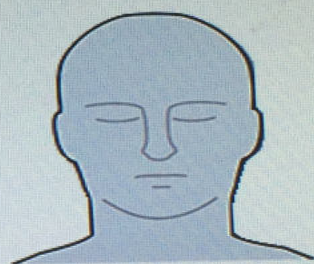
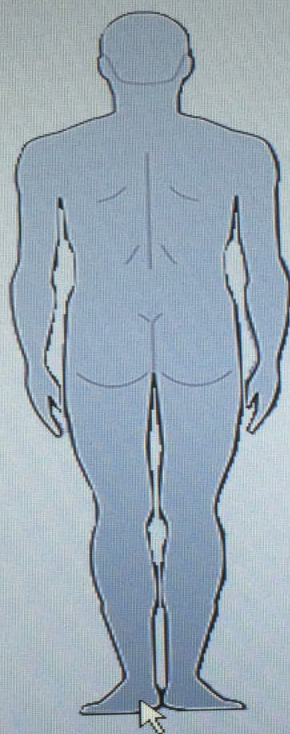
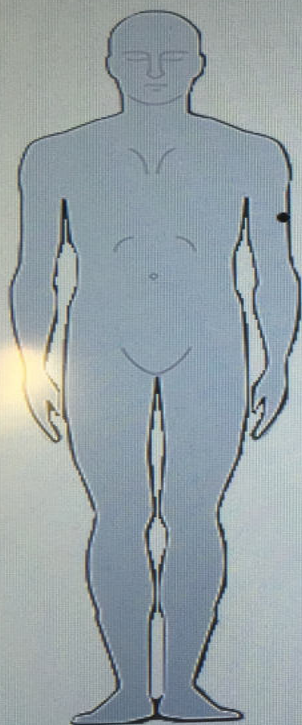




CHAMP CARTE DU CORPS



26/10/2015
11:08



Position de la lésion:

Bras, gauche

Âge:

64

Annuler

Âge

Mesurer





MESURE

ID du patient: [ID-20151026-1108]
Lésion: Bras, gauche 01



26/10/2015
11:09



DEMO



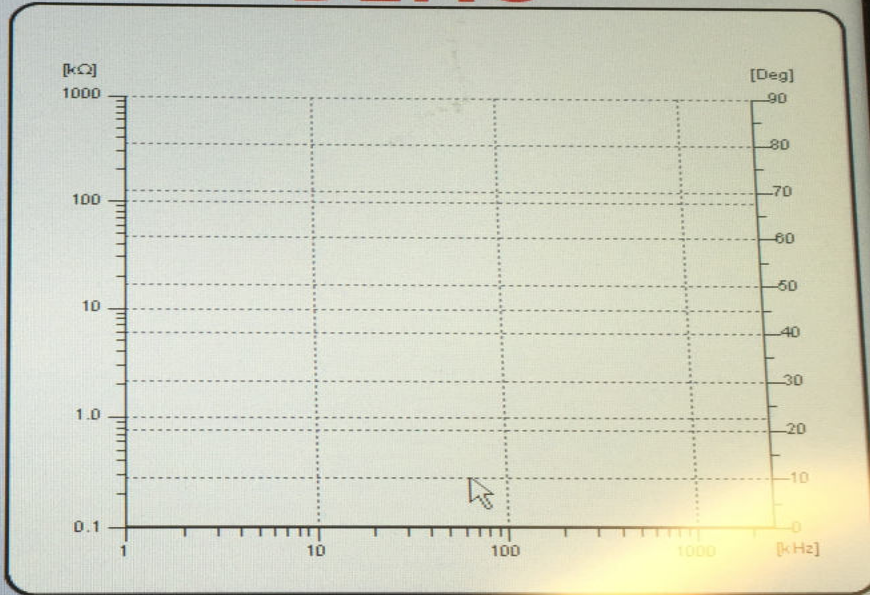
Humidifiez la peau



Essuyez



Mesurez



Comptage des électrodes: DEMO

Annuler

Rejeter

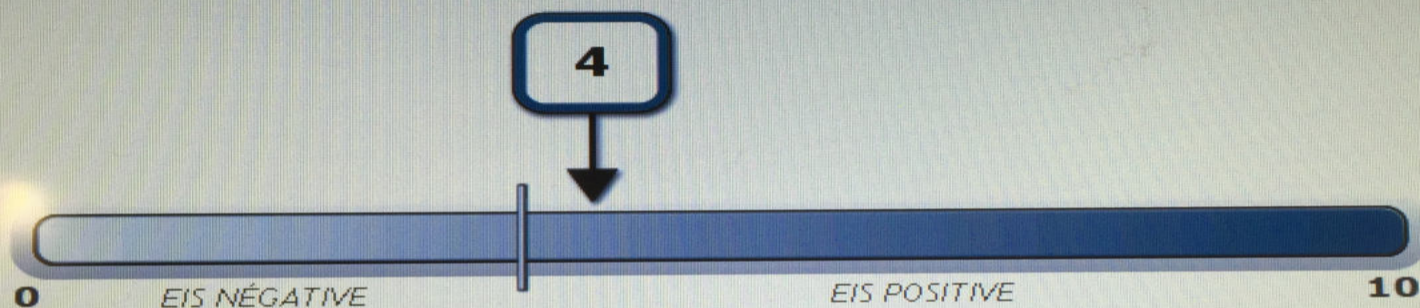
Terminé



SCORE EIS

DEMO

This is a demonstration result only.
The score is not valid and will not be saved.



Visualiser la référence clinique

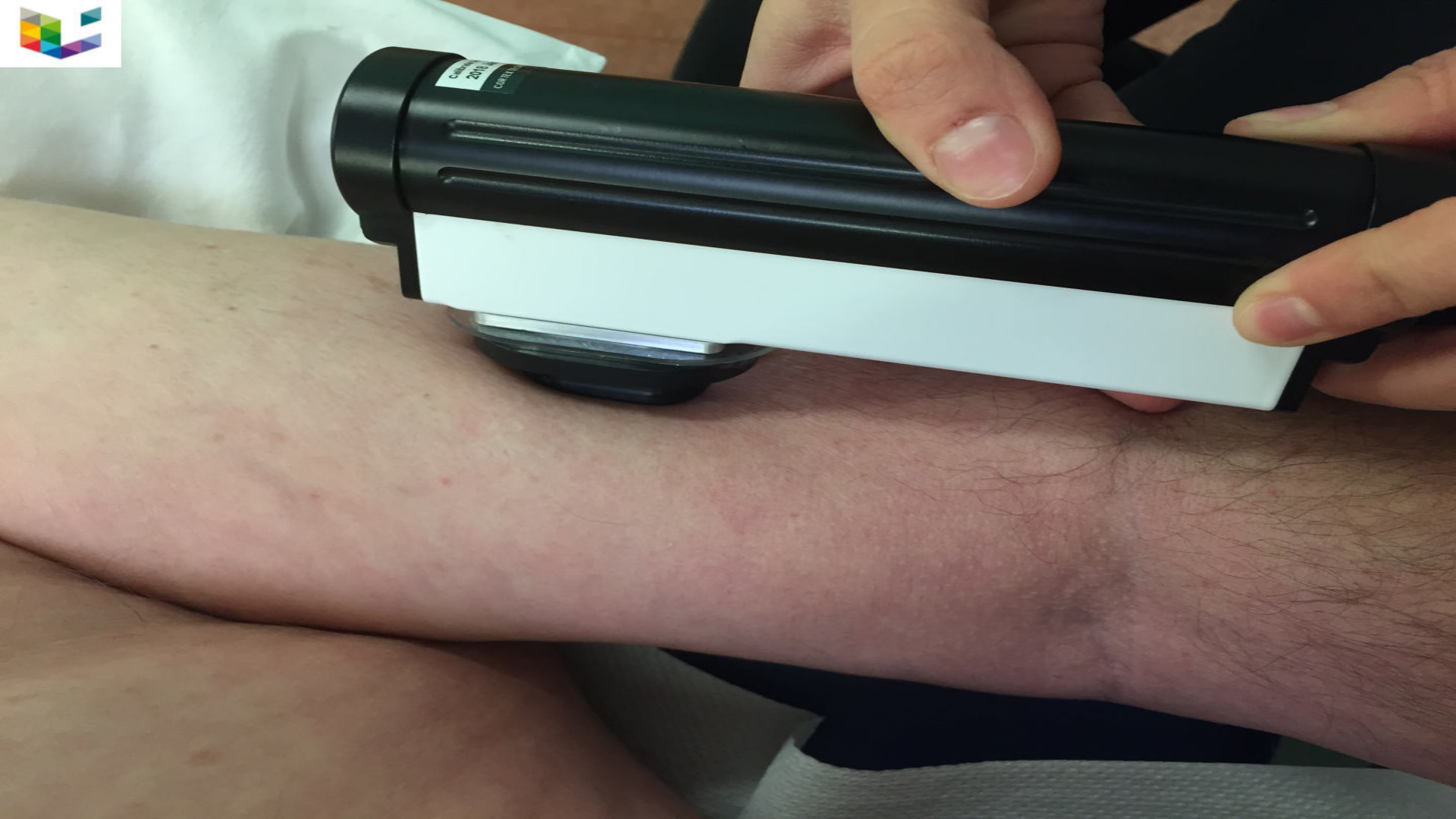
REMARQUE : Score EIS positif. Un changement d'électrode peut être à recommander avant d'effectuer des mesures supplémentaires. Consultez les Instructions d'utilisation.

Créer rapport

Nouvelle lésion

Terminé








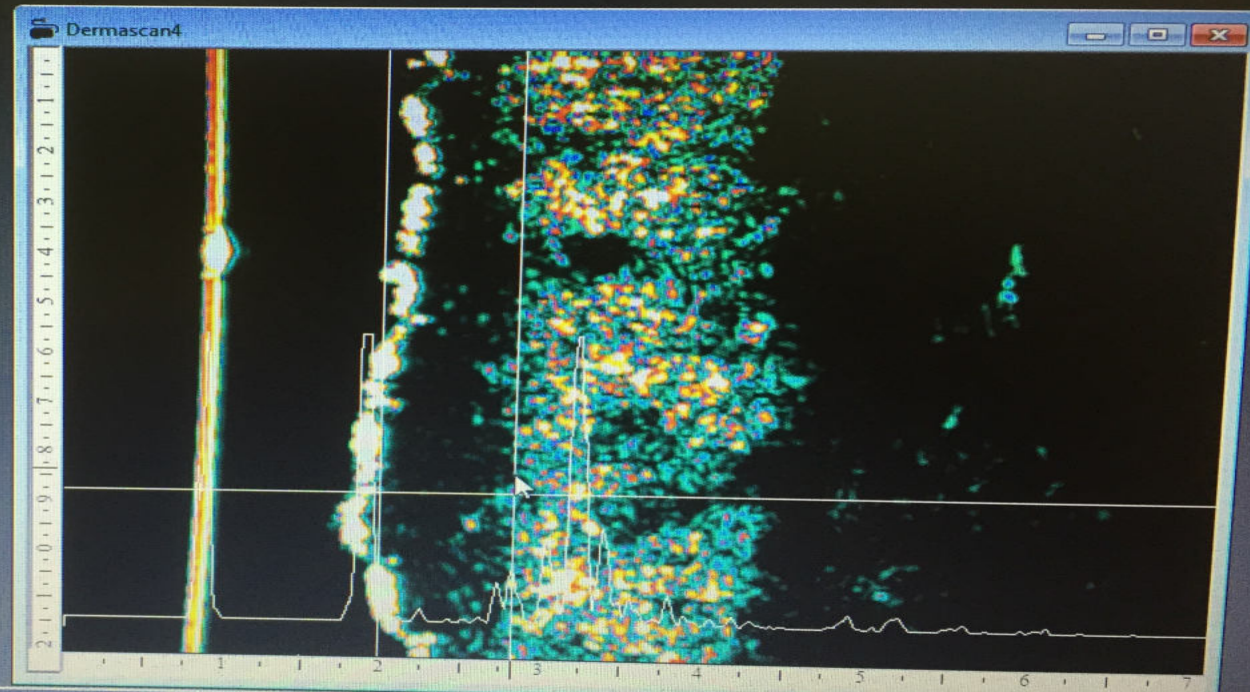
Horizontal
Vertical
Arbitrary
Clear
End
Export

A-Meas.
A-Meas.
Meas.

Measure

Properties

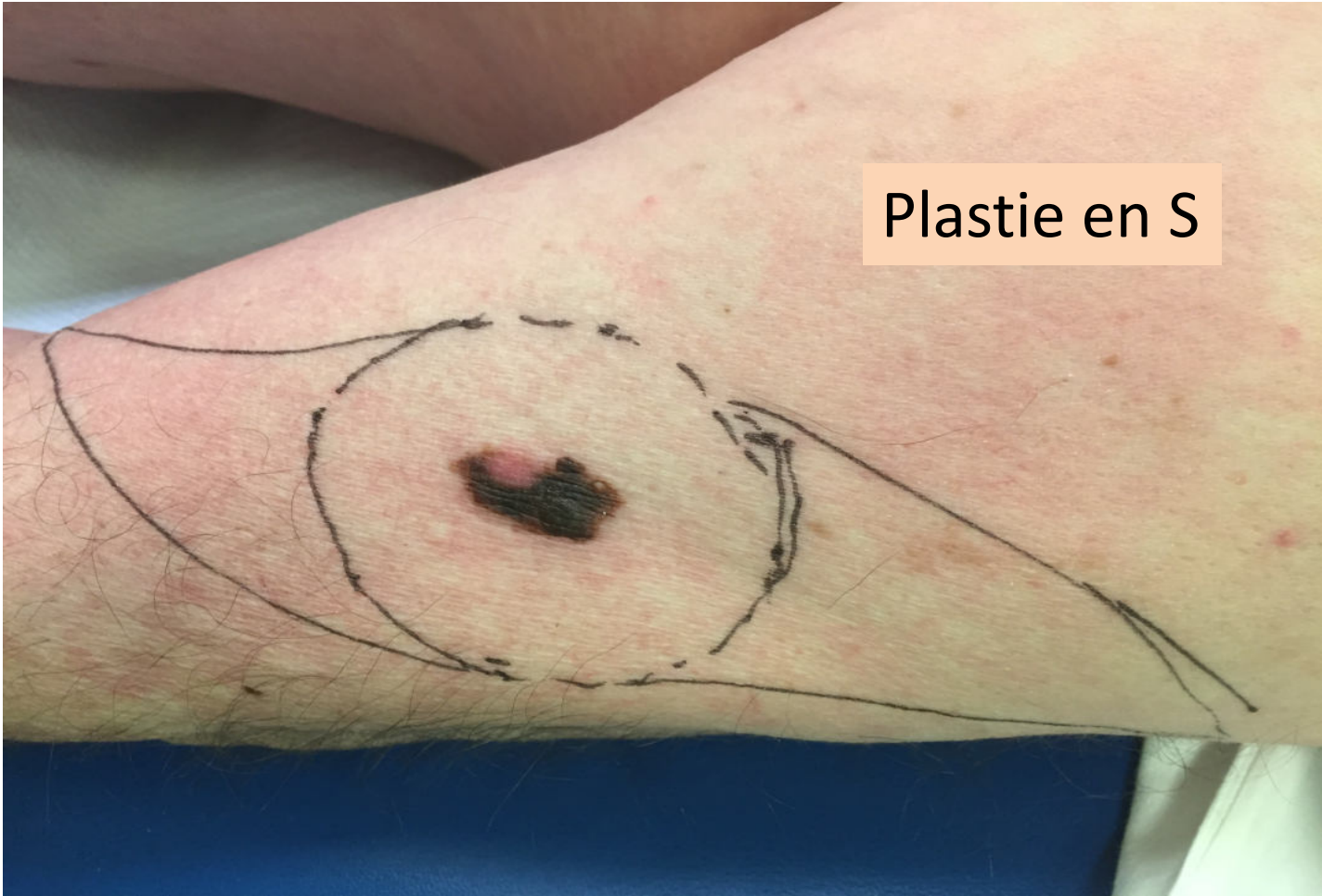
Property	Value
Current Scan Settings	
Stored Scan Settings	
Probe	B12.1 20MHz 13mm HS
Velocity in m/s	1580
Colorscale	High Contrast
Gain Profile	5
Stored Gain Profile Level	16
Custom Gain Profile	testprofile.gai
A-Scan Measures	
Horizontal Current (mm)	0.831579
Horizontal Average (mm)	0.415789
Vertical Current (mm)	0.000000
Vertical Average (mm)	0.000000
Arbitrary (mm)	0.000000
B-Scan Measures	



0,8 mm de profondeur à l'ultrason
20MHz

=> 1 cm de marge chirurgicale



Plastie en S





Trajet de soins en dermato-oncologie

Mélanome

Marges d'excision cliniques

- MM in situ extrémité chéphalique: 0,9 mm
- MM in situ corps: 0,5 mm
- MM < 1 mm: 1 cm
- MM > 1 mm, et/ou micrométastases, et/ou 2 mitoses ou >, et/ou ulcération: 2cm de marge

CAVE:

Attention: les marges cliniques ne correspondent pas aux marges histologiques
Les tissus rétrécissent dans le formol.



Mélanome

Délais d'interventions dermato-oncologie:

Cas urgents: intervention dans la semaine
- *Mélanome érodé, charnu*

Cas non-urgents:

- *Mélanome de Dubreuilh*
- *Petit mélanome superficiel*



Trajet de soins en dermato-oncologie

Mélanome

Suivi clinique

Années	1, 2	3-5	6 et +
MM in situ (récurrent)	Dermato: 4 x/an	Dermato: 2 x/an	Dermato: 1 x/an
MM < 1 mm (récurrent)	Dermato: 4x/an	Dermato: 2 x/an	Dermato: 1 x/an
MM < 1 mm (récurrent) <ul style="list-style-type: none">• Ulcération• Mitoses: 2 ou >• Micrométastases	Dermato: 4 x/an Onco: 4 x/an (Combiner RV)	Dermato: 2 x/an Onco 2 x/an (Alterner RV)	Dermato: 1 x/an Onco 1 x/an (Alterner RV)
MM > 1 mm (récurrent)	Dermato: 4 x/an Onco: 4 x/an (Combiner RV)	Dermato: 2 x/an Onco 2 x/an (Alterner RV)	Dermato: 1 x/an Onco 1 x/an (Alterner RV)



Trajet de soins en dermato-oncologie

Mélanome

Suivi clinique





Dermogenius

Dermoscopie

Digitalisée

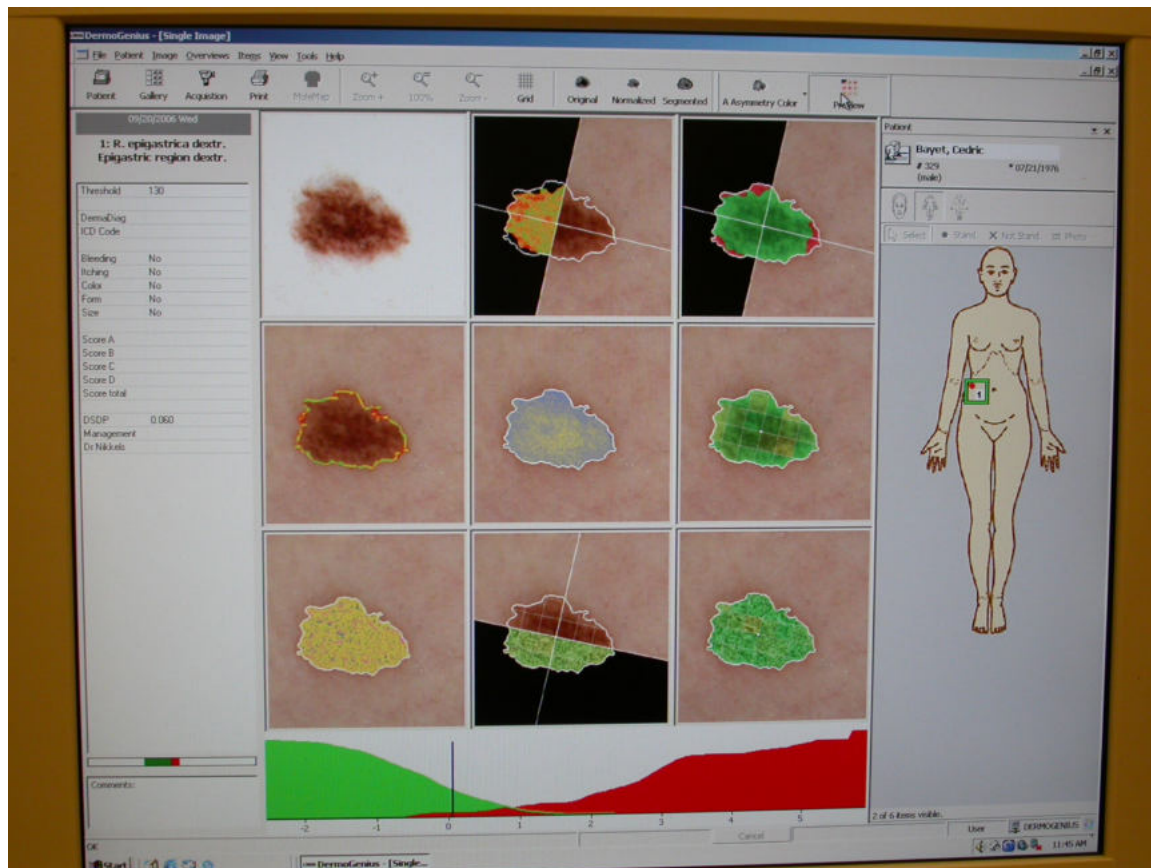
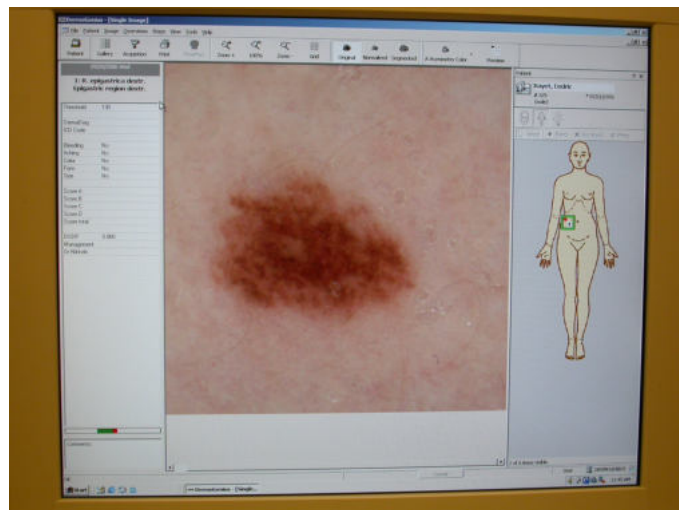
Séquentielle

DDS





Dermogenius





Whole body photography



Trajet de soins en dermato-oncologie

Examens lors d'une visite de suivi mélanome

1

1. Anamnèse (apparition nouvelles lésions, signes généraux, etc...)
2. Examen dermatologique (Total body examination)
3. Examen dermatoscopique
4. Examen DDS (Dermoscopie digitalisée séquentielle)
5. Examen clinique:
 - Adenopathies éventuelles
 - Hépatomégalie
 - Splénomégalie

2

Examen et prise en charge dermatologique (recherche des effets indésirables des traitements oncologiques chez le patient métastatique)

3

Rappel de la photoprotection

4

Rappel de la vitamine D

5

Programmer nouveau RV de suivi



Melanoma

Survival according to disease stage

LE MÉLANOME : LE TRAJET DE SOINS DU PATIENT

DU DIAGNOSTIC AU TRAITEMENT

ABSIL G (1), DAMSIN T (1), LEBAS E (1), LIBON F (1), SOMJA J (2), COLLINS P (2), REGISTER MA (2), QUATRESOOZ P (2), RORIVE A (3), MARCHAL N (3), JACQUEMIN D (4), BOUS A (4), PIRET P (5), NIKKELS AF (1)

RÉSUMÉ : Le traitement du mélanome est un exemple type de collaboration multidisciplinaire, afin de pouvoir garantir au patient une prise en charge rapide dès le moment de la détection de la lésion. Tant au niveau dermatologique, anatomo-pathologique et oncologique, d'énormes progrès ont eu lieu ces dernières années. Ils permettent un accès au diagnostic de plus en plus rapide par la télédermoscopie, une précision diagnostique accrue par la dermoscopie, l'ultrason à haute fréquence et la tomographie par cohérence optique, une détermination des facteurs de risque immunohistochimiques et génétiques sur les analyses anatomo-pathologiques ainsi que le recours à des immunothérapies, notamment les anti-PD1, et à des traitements ciblés. Ces nouveaux traitements permettent souvent une plus longue survie du patient, avec un profil de tolérance acceptable en cas de lésions métastatiques. Cet article reprend le trajet de soins du patient, du diagnostic initial et du staging au traitement éventuel avec son suivi.

MOTS-CLÉS : Mélanome - Dermoscopie - Télédermatologie - Télédermoscopie - Diagnostic - Traitement - Traitements ciblés - Immunothérapies

INTRODUCTION

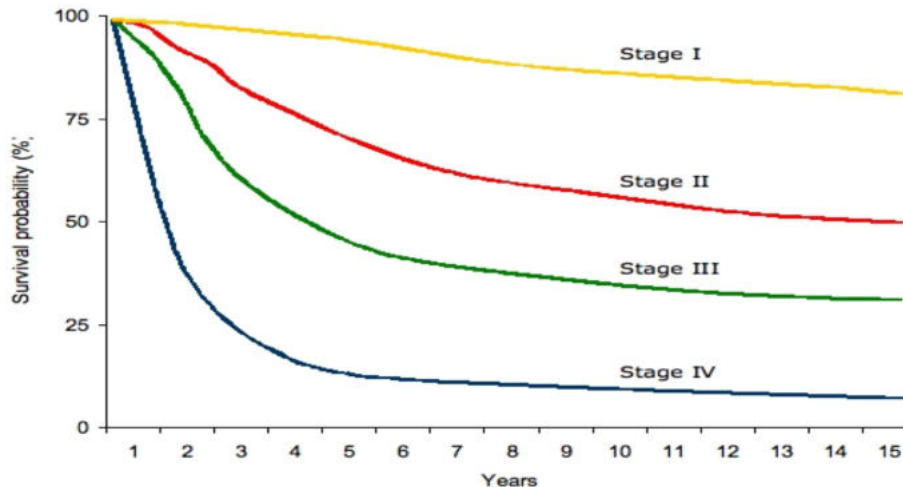
Le mélanome est une prolifération maligne des mélanocytes (1). Environ la moitié des mélanomes se développent au sein d'un naevus pigmentaire préexistant, et l'autre moitié sur une peau saine. Le site le plus fréquent est le dos

MELANOMA : THE PATIENT'S CARE PATHWAY. FROM DIAGNOSIS TO THERAPY

SUMMARY : The management of melanoma is a typical example of a multidisciplinary approach, in order to provide the patient with a rapid and adequate treatment plan after the initial diagnosis. Both in the domains of dermatology, pathology and oncology, enormous progress has been made. Recent advances permit a rapid access to diagnostic techniques using teledermoscopy, an improved diagnostic accuracy using dermoscopy, pre-interventional high-frequency ultrasound and optical coherence tomography, a determination of risk factors using immunohistochemistry and genetic analyses on the pathology samples. Furthermore, the development of immunotherapies, in particular the anti-PD1 antibodies, and the directed therapies, therapies permitting an increased number of patients to experience an increased survival with an acceptable tolerance profile in the event of metastatic lesions. This article describes the patient's care pathway, from the initial diagnosis, staging, to an eventual treatment and follow-up.

KEYWORDS : Melanoma - Dermoscopy - Teledermatology - Teledermoscopy - Diagnosis - Treatment - Targeted therapies - Immunotherapies

campagne Euromelanoma (4, 5). Une éducation à la photoprotection externe, vestimentaire et comportementale est également fournie chaque année par la presse écrite, télévisée et sur les réseaux sociaux.





Melanoma

Prevention

Slip



Slop



Slap



Seek



Slide



Protect yourself in five ways from skin cancer



Melanoma

Prevention



**EVERY
DAY**
USE SUNSCREEN



**EVERY
MONTH**
CHECK YOUR SKIN



**EVERY
YEAR**
VISIT A DERMATOLOGIST
IF YOU'RE AT HIGHER RISK
WWW.CUREMELANOMA.ORG



Melanoma

Prevention





Melanoma

Prevention



No, sunscreen use does not impair vitamin D production

No, you cannot use the cream from last year

The real-life SPF is about 1/3 of the figure on the package

One single texture is OK for the entire family



Melanoma

Prevention

SPF 50 vs SPF 100 ?

SPF 100/50: 50: 55% more sunburns

ERYTHEMA SCORE: 50: 0,75
100: 0,52

Impact on MM incidence: still ??????



Melanoma

Prevention

UV-index

Smart phone apps
Weather forecast

0-4: nothing to worry
5-8: protection
9-11: stay inside

UV PROTECTION CHART				
Low (0-2)	Medium (3-5)	High (6-7)	Very High (7-10)	Extremely High (11+)
Sunscreen	Sunscreen	Sunscreen	Sunscreen	Sunscreen
Sunglasses	Sunglasses	Sunglasses	Sunglasses	Sunglasses
	Hat	Hat	Hat	Hat
		Shade	Shade	Shade
				Staying indoors between 10am-4pm

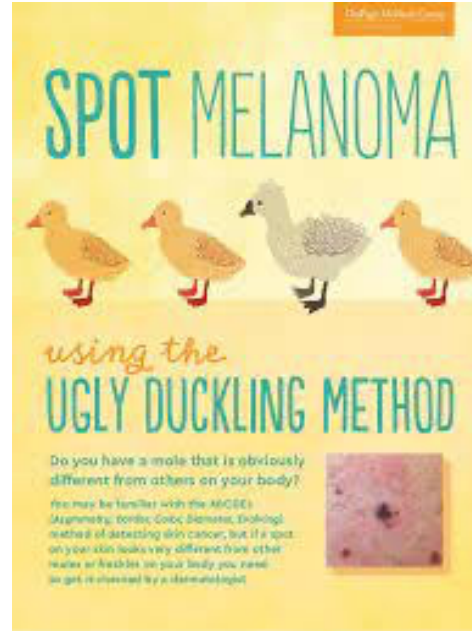


Melanoma

Prevention

Take a shower with your partner

Shadow



Children

Beta-HPV infection during childhood increases keratinocytic photosensitivity

Melanoma ???????



Melanoma

Prevention

Information and awareness campaigns

Only 5% of all melanoma patients
arrive at the oncology department

We are fighting to get this figure
even lower





Melanoma

Thank you for your attention



LE MÉLANOME : LE TRAJET DE SOINS DU PATIENT DU DIAGNOSTIC AU TRAITEMENT

ABSIL G (1), DAMSIN T (1), LEBAS E (1), LIBON F (1), SOMJA J (2), COLLINS P (2),
REGINSTER MA (2), QUATRESOOZ P (2), RORIVE A (3), MARCHAL N (3), JACQUEMIN D (4), BOUS A (4),
PIRET P (5), NIKKELS AF (1)

RÉSUMÉ : Le traitement du mélanome est un exemple type de collaboration multidisciplinaire, afin de pouvoir garantir au patient une prise en charge rapide dès le moment de la détection de la lésion. Tant au niveau dermatologique, anatomopathologique et oncologique, d'énormes progrès ont eu lieu ces dernières années. Ils permettent un accès au diagnostic de plus en plus rapide par la télédermoscopie, une précision diagnostique accrue par la dermoscopie, l'ultrason à haute fréquence et la tomographie par cohérence optique, une détermination des facteurs de risque immunohistochimiques et génétiques sur les analyses anatomo-pathologiques ainsi que le recours à des immunothérapies, notamment les anti-PD1, et à des traitements ciblés. Ces nouveaux traitements permettent souvent une plus longue survie du patient, avec un profil de tolérance acceptable en cas de lésions métastatiques. Cet article reprend le trajet de soins du patient, du diagnostic initial et du staging au traitement éventuel avec son suivi.

MOTS-CLÉS : Mélanome - Dermoscopie - Télédermatologie - Télédermoscopie - Diagnostique - Traitement - Traitements ciblés - Immunothérapies

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Le mélanome est une prolifération maligne des mélanocytes (1). Environ la moitié des mélanomes se développent au sein d'un nævus pigmentaire préexistant, et l'autre moitié sur une peau saine. Le site le plus fréquent est le dos

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