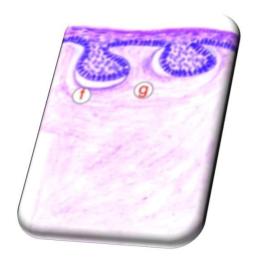
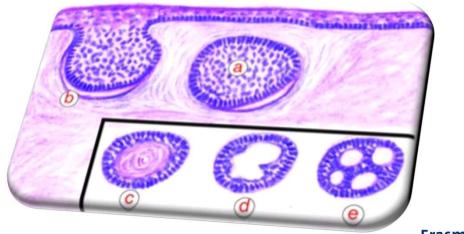
BASAALCELCARCINOOM



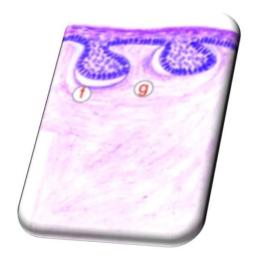
Antien Mooyaart Rosai 29-11

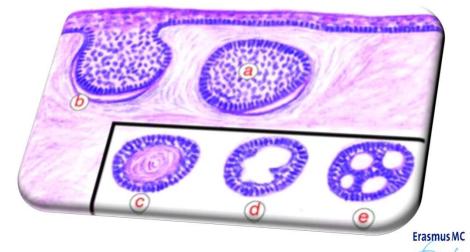


Erasmus MC

OVERZICHT

- Subtypes
- Coupes kijken
- Literatuur





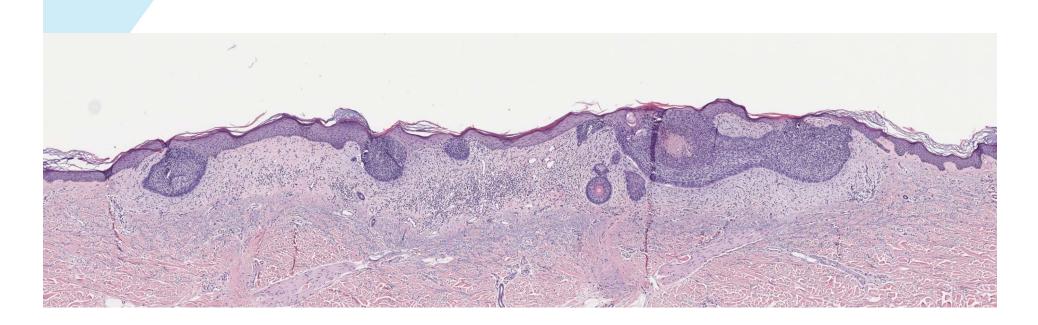




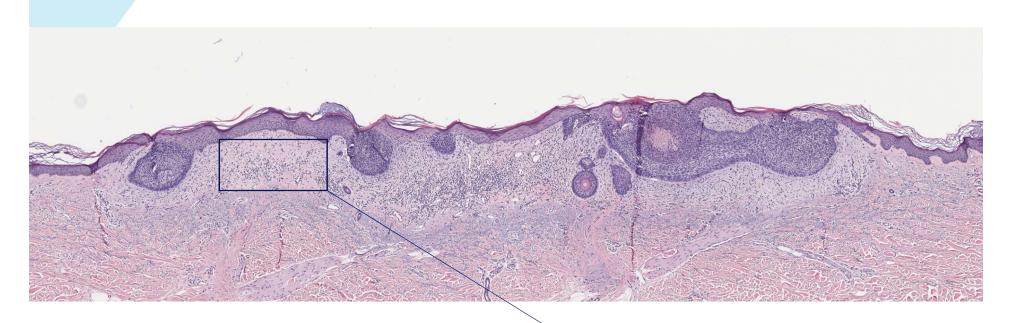








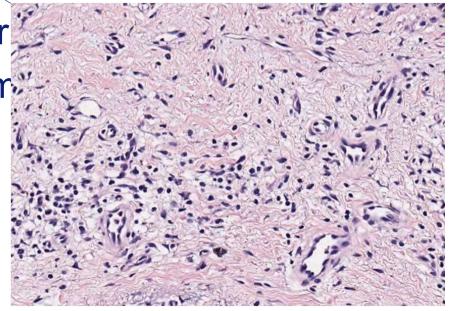
- In contact staat met epidermis
- Groeit in de papillaire dermis
- Fibromyxoid stroma



In contact staat met epider

Groeit in de papillaire derm

Fibromyxoid stroma



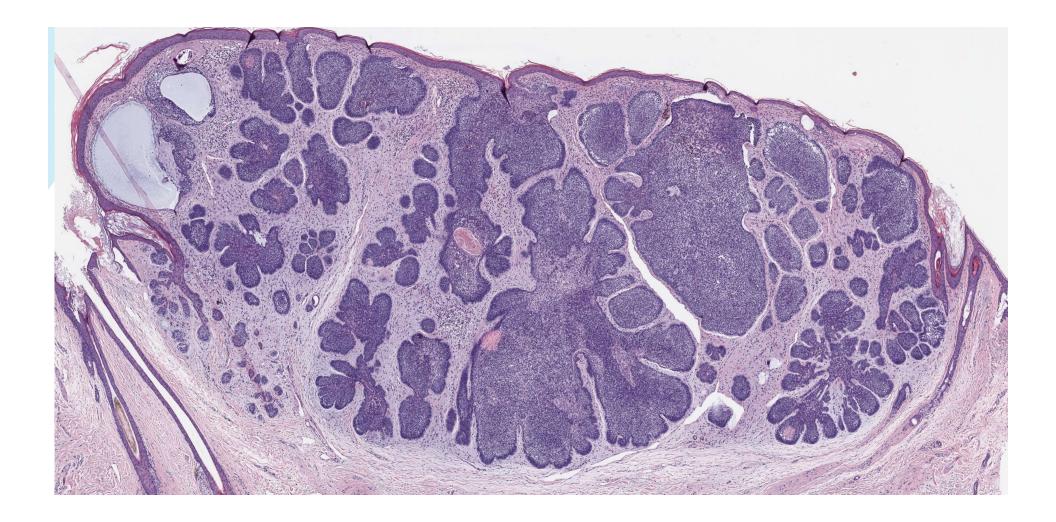
WHO SKIN TUMORS NODULAIR BCC

WHO SKIN TUMORS NODULAIR BCC

WHO SKIN TUMORS NODULAIR BCC

WHO SKIN TUMORS NODULAIR BCC

WHO SKIN TUMORS NODULAIR BCC



- Nodules in de dermis
- Geen desmoplastisch stroma

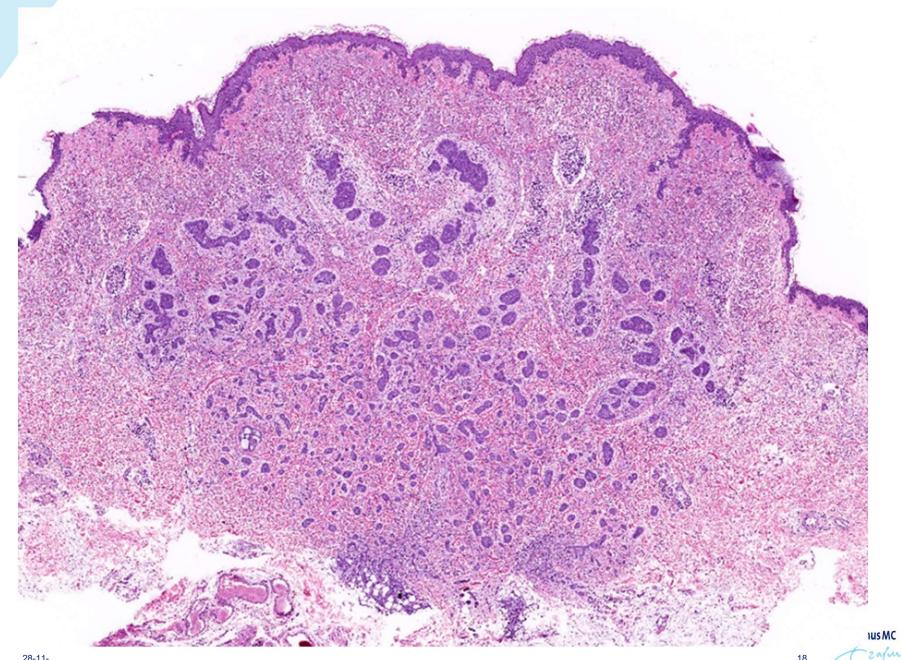
WHO SKIN TUMORS - MICRONODULAR

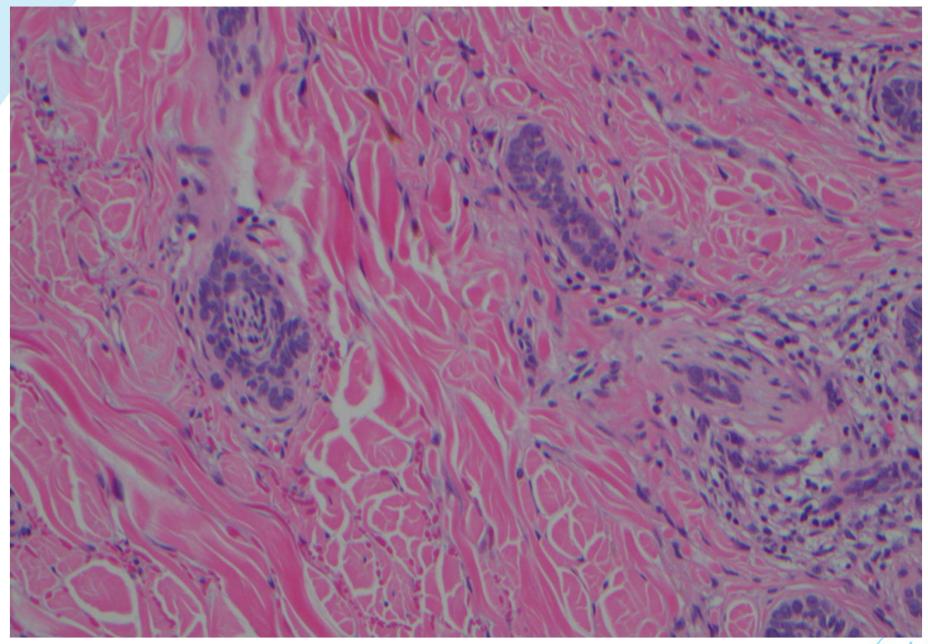
 Micronodular BCC is composed predominantly of rounded, ovoid or slender groups of basaloid cells often scattered throughout the dermis and subcutis { 34931722 ; 35885545 }. These may appear as separate satellites outlined by a thin rim of stroma and separated by normal dermis. The tumours have an irregular, tentacular and infiltrative deep or peripheral edge composed predominantly (i.e. greater than 50%) of rounded small discrete groups of cells (less than 0.15 mm in diameter).



Single nodules may be seen distant from the bulk of the main tumour. The tumours can reach a large size and may demonstrate perineural involvement. This pattern is frequently mixed with other patterns including nodular and infiltrative BCC.

Section misorientation and the lack of strict definitions in terms of the size and number of micronodules may contribute to **poor interobserver reproducibility in the diagnosis** of this variant reported in some studies



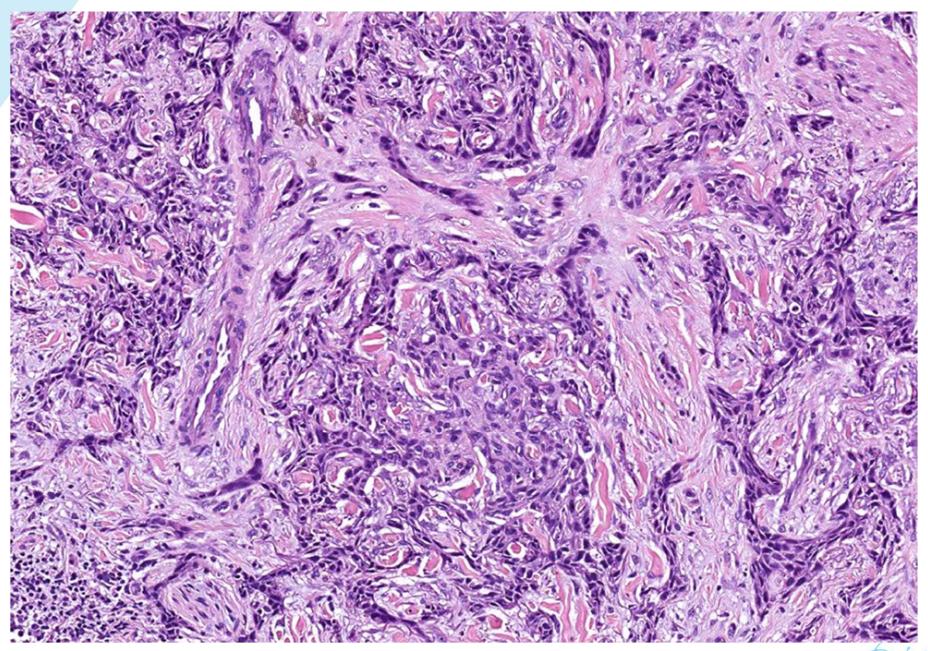


28-11-

INFILTRATING

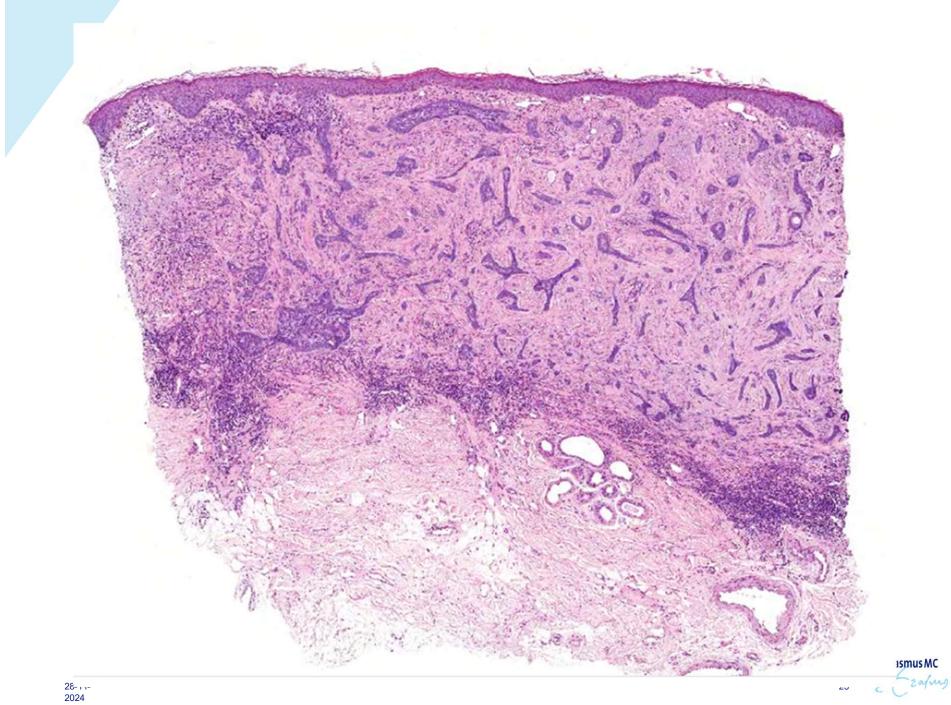
 Variably sized, sometimes jagged nests of basaloid tumour cells infiltrate the normal dermal collagen. The tumour has an <u>irregular</u> <u>permeating pattern of invasion at the deep</u> <u>tumour edge.</u>

 Approximately one third of infiltrating BCCs are admixed with a nodular BCC component. Perineural invasion is more frequent in this subtype.



SCLEROSING/MORPHOEIC BASAL CELL CARCINOMA

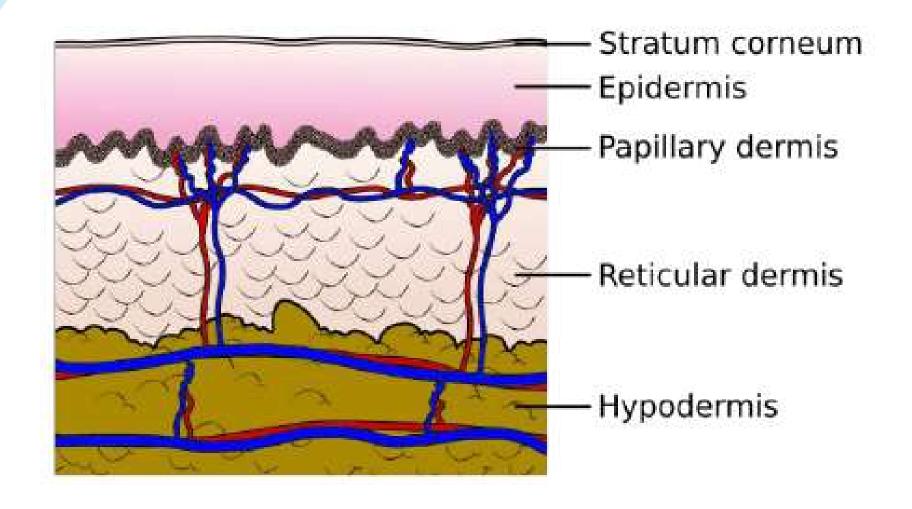
 Narrow cords of tumour (1–5 cells thick) are compressed by induced sclerotic collagenous stroma, disrupting the normal dermal architecture. Peripheral palisading and retraction artifacts are uncommon. These tumours penetrate deeply and show an irregular/ tentacular, deeply infiltrative border with the surrounding stroma. There is often overlap with infiltrating BCC, which lacks the prominent induced collagenous stroma.

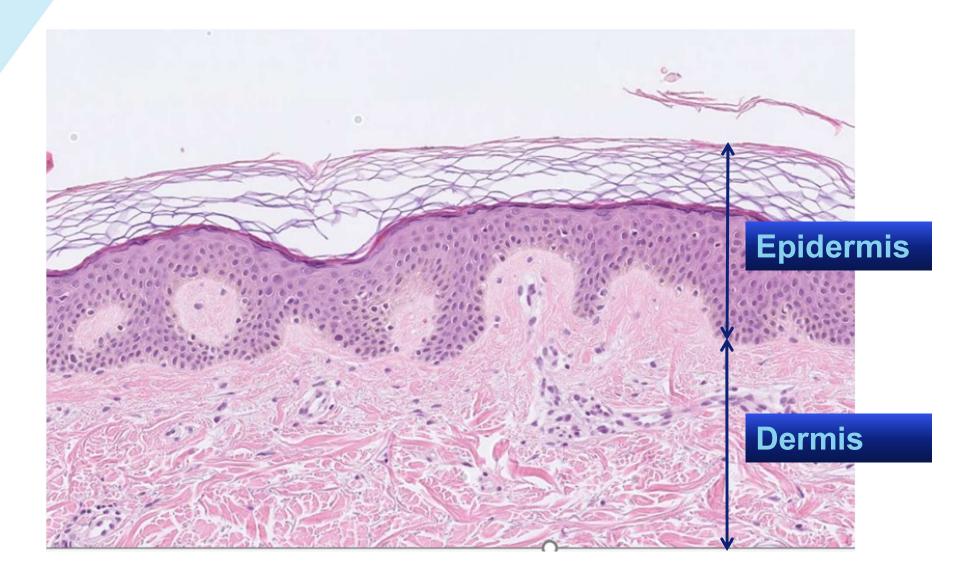


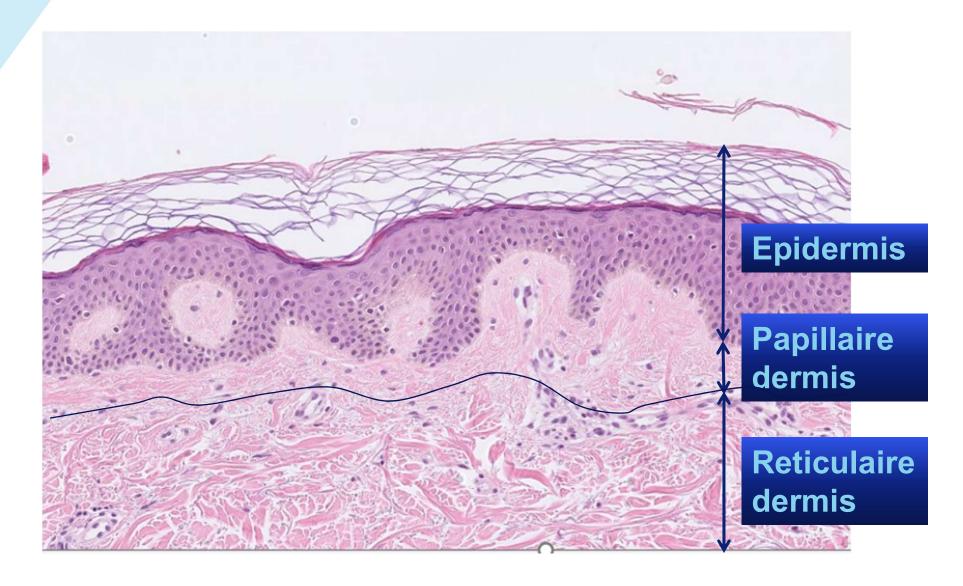
SAMENVATTING

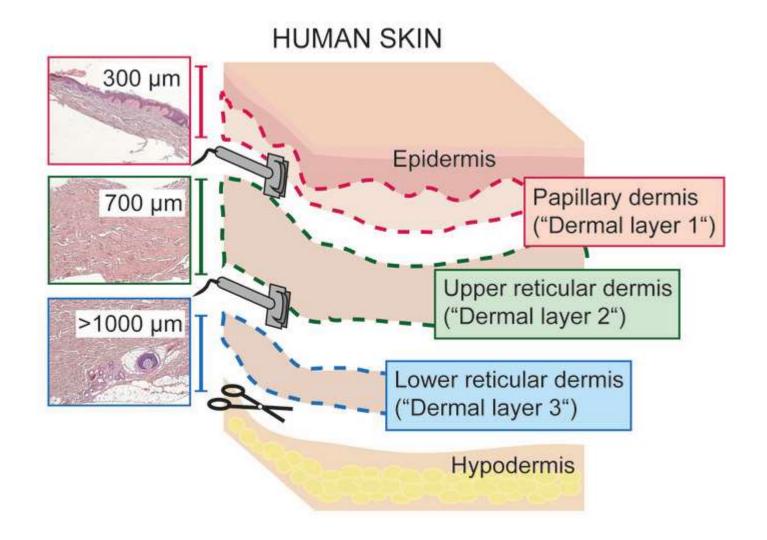
- Superficieel papillaire dermis
- Nodulair geen desmoplastische stromareactie
- Sprieterig (infiltrating/sclerosing) irregulair patroon van invasie, wel desmoplastische stromareactie
- Micronodulair geen stromareactie

NORMALE HUID









COUPES KIJKEN

Erasmus MC zafus

POSITION STATEMENT

Position paper on a simplified histopathological classification of basal cell carcinoma: results of the European Consensus Project

M.T. Fernández-Figueras, ^{1,*} D. Malvehi, P. Tschandl, A. Rutten, F. Rongioletti, L. Requena, D. Kittler, K. Kerl, D. Kazakov, B. Cribier, E. Calonje, André, M. Kempf, L. Kempf, L. Kempf, L. Requena, D. Study Group Collaborators (Validation Group)



¹Department of Pathology, Hospital Universitari General de Catalunya, Grupo Quironsalud & Universitat Internacional de Catalunya, Sant Cugat del Vallés, Spain

²Department of Dermatology, Hospital Clínic de Barcelona (Melanoma Unit), University of Barcelona, IDIBAPS, Barcelona & CIBERER, Barcelona, Spain

³Department of Dermatology, Medical University of Vienna, Vienna, Austria

⁴Dermatopathology Practice Friedrichshafen/Lake Constance, Friedrichshafen, Germany

⁵Dermatology Clinic, IRCCS San Raffaele Hospital, Vita Salute University, Milan, Italy

⁶Department of Dermatology, Fundación Jiménez Díaz, Universidad Autónoma, Madrid, Spain

⁷Department of Dermatology, University Hospital Zürich, Zürich, Switzerland

⁸Sikl's Department of Pathology, Medical Faculty in Pilsen, Charles University in Prague, Pilsen, Czech Republic

⁹Dermatology Department University Hospital, Strasbourg, France

¹⁰St John's Institute of Dermatology, St Thomas Hospital, London, UK

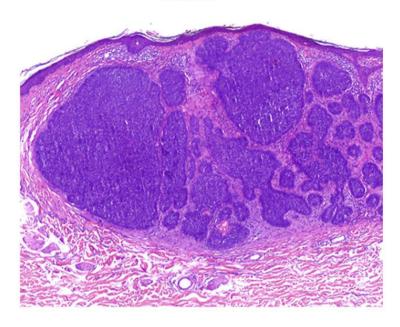
¹¹Department of Dermatology, Centre Hospitalier Universitaire Saint-Pierre, Université Libre de Bruxelles, Brussels, Belgium

¹²Kempf Pfaltz Histologische Diagnostik, Zurich, Switzerland

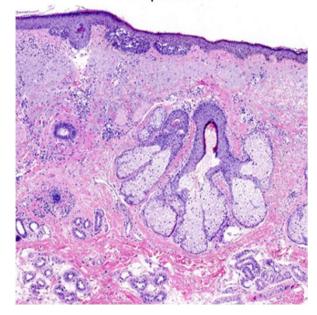
¹³Department of Dermatology, University Hospital Zurich, Zürich, Switzerland

^{*}Correspondence: M.T. Fernández Figueras. E-mail: maiteffig@gmail.com

Nodular



Superficial





POSITION STATEMENT

Position paper on a simplified histopathological classification of basal cell carcinoma: results of the European Consensus Project

M.T. Fernández-Figueras, ^{1,*} D. Malvehi, P. Tschandl, A. Rutten, F. Rongioletti, L. Requena, D. Kittler, K. Kerl, D. Kazakov, B. Cribier, E. Calonje, André, M. Kempf, L. Kempf, L. Kempf, L. Requena, D. Study Group Collaborators (Validation Group)



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¹³Department of Dermatology, University Hospital Zurich, Zürich, Switzerland

^{*}Correspondence: M.T. Fernández Figueras. E-mail: maiteffig@gmail.com

REPRODUCEERBAARHEID

Table 4 Results of Fleiss' kappa (κ) measures of the reliability of agreement corresponding to the different subtype classifications and assessments of 100 BCC cases by 12 panellists (G12) and 10 expert dermatopathologists in the validation group (G10)

BCC subtype	WHO classification (G12)	Simplified classification (G12)	Simplified classification (G10)
	Fleiss' Kappa (95%CI)	Fleiss' Kappa (95%CI)	Fleiss' Kappa (95%CI)
Nodular	0.248 (0.219-0.278)	0.431 (0.402-0.461)	0.445 (0.431-0.460)
Infiltrating	0.314 (0.284-0.343)	N/A	N/A
Sclerosing	0.288 (0.259-0.343)	N/A	N/A
Micronodular	0.205 (0.176-0.235)	N/A	N/A
Infiltrative subtype (unified) N/A	0.515 (0.486–0.545)	0.532 (0.518-0.546)
Superficial	0.611 (0.581–0.640)	0.747 (0.718–0.776)	0.720 (0.706-0.734)
Basosquamous	0.276 (0.247–0.306)	0.342 (0.313–0.371)	0.315 (0.301-0.330)
Other	0.092 (0.063-0.122)	N/A	N/A
Other BCC	N/A	0.589 (0.560-0.618)	0.545 (0.531-0.559)
Other non-BCC	N/A	0.210 (0.180-0.239)	0.142 (0.128–0.156)

Levels of agreement according to Kappa results can be interpreted as follows²⁵: Values ≤ 0 indicate no agreement, and 0.01–0.20 indicate none to slight, 0.21 –0.40 indicate fair, 0.41– 0.60 indicate moderate, 0.61–0.80 indicate substantial, and 0.81–1.00 indicate almost perfect agreement.

BCC, Basal cell carcinoma; 95%CI, 95% confidence interval; N/A, not applicable.



Table 1. BCC subtype by observer

				Obs	erver		
Subtype	Α	В	C	D	E	F	Total (%)
Nodular	34	52	42	57	54	48	287 (48)
Infiltrative*	21	37	21	22	23	8	132 (22)
Superficial	15	23	22	9	27	8	104 (17)
Pigmented	14	10	17	18	11	9	79 (13)
Morpheaform*	6	0	18	6	11	13	54 (9)
Micronodular*	6	1	7	17	3	4	38 (6)
Fibroepithelial	6	6	4	4	4	3	27 (5)
Infundibulocystic	3	4	0	0	10	0	17 (3)
Nodulocystic	5	0	3	1	0	5	14 (2)
Keratotic	0	0	2	7	3	0	12 (2)
Basosquamous*	0	0	4	0	3	3	10(2)
Metatypical*	3	0	0	3	0	0	6 (1)
Adenoid	0	0	4	1	0	1	6 (1)
Squamatized	0	0	0	0	0	4	4 (1)
Sclerosing*	2	0	1	0	0	0	3 (<1)
With follicular	0	0	2	0	0	0	2(<1)
differentiation							,
Clear cell	0	0	0	0	0	2	2(<1)
Adamantinoid	0	0	1	0	0	0	1(<1)
With eccrine differentiation	0	0	1	0	0	0	1 (<1)
Adenocystic	0	0	0	0	1	0	1 (<1)
With thickened	0	0	0	0	0	1	1 (<1)
basement membrane							. (< 1)

^{*}Classified as high-risk in two-tiered analysis.



Table 1. BCC subtype by observer

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With follicular differentiation	0	0	2	0	0	0	2 (<1)
Clear cell	0	0	0	0	0	2	2(<1)
Adamantinoid	0	0	1	0	0	0	1 (<1)
With eccrine differentiation	0	0	1	0	0	0	1 (<1)
Adenocystic	0	0	0	0	1	0	1 (<1)
With thickened basement membrane	0	0	0	0	0	1	1 (<1)

Kappa 0.7



^{*}Classified as high-risk in two-tiered analysis.



The surgical excision versus imiquimod 5% cream for nodular and superficial basal-cell carcinoma (SINS): a multicentre, non-inferiority, randomised controlled trial

Fiona Bath-Hextall, Mara Ozolins, Sarah J Armstrong, Graham B Colver, William Perkins, Paul S J Miller, Hywel C Williams, on behalf of the Surgery versus Imiguimod for Nodular and Superficial basal cell carcinoma (SINS) study group*

	Successfully treated with imiquimod	Successfully treated with surgery	Difference (%, 98% CI)*	RR (98% CI)†‡	p value
Modified inte	ention-to-treat analys	sis			
3 years					
Superficial	97/114 (85.1%)	96/98 (98.0%)	12.9% (4.4-21.3)	**	
Nodular	81/99 (81.8%)	89/90 (98.9%)	17.1% (7.7-26.4)	**	
All	178/213 (83-6%)	185/188 (98-4%)	14.8% (8.6-21.1)	0.84 (0.78-0.91)	<0.000
2 years					
Superficial	101/116 (87-1%)	99/100 (99.0%)	11.9% (4.3-19.5)		
Nodular	90/107 (84-1%)	92/93 (98-9%)	14.8% (6.2-23.4)		
All	191/223 (85.7%)	191/193 (99.0%)	13.3% (7.6-19.3)	0.86 (0.80-0.92)	<0.000
1 year					
Superficial	106/119 (89-1%)	99/100 (99.0%)	9.9% (2.9-17.0)		**
Nodular	95/111 (85.6%)	98/99 (99.0%)	13.4% (5.3-21.5)	**	
All	201/230 (87-4%)	197/199 (99-0%)	11.6% (6.3-17.0)	0.88 (0.82-0.93)	<0.000
Per-protocol	analysis				
3 years					
Superficial	92/109 (84-4%)	96/98 (98.0%)	13.6% (4.8-22.3)	**	
Nodular	76/93 (81.7%)	88/89 (98.9%)	17.2% (7.5-26.8)	**	
All	168/202 (83-2%)	184/187 (98-4%)	15.2% (8.7-21.7)	0.83 (0.77-0.90)	<0.000

‡Relative-risk analysis covariates: centre, tumour type (nodular or superficial), tumour size, tumour site, and

Eligible participants of any age had histologically confirmed, primary, previously untreated, nodular or superficial basal-cell carcinoma not arising at sites at

immunosuppression. §From likelihood ratio test.

INVASIE DIEPTE

CLINICAL AND LABORATORY INVESTIGATIONS

BJD British Journal of Dermatology

Thickness of superficial basal cell carcinoma (sBCC) predicts imiquimod efficacy: a proposal for a thickness-based definition of sBCC

K.M. McKay, B.L. Sambrano, P.S. Fox, R.L. Bassett, S. Chon and V.G. Prieto 4.5

Departments of ³Biostatistics, ⁴Dermatology, and ⁵Pathology, The University of Texas MD Anderson Cancer Center, Houston, TX, U.S.A.

- Superficieel basaalcelcarcinoom: definitie volledig vastzittend aan de epidermis
- Kanttekening: diagnostische shave-excisies



¹Departments of Dermatology and Pathology, The University of Alabama at Birmingham, Birmingham, AL, U.S.A.

²University of Texas School of Medicine, Houston, TX, U.S.A.

Table 2. Univariate analyses of predictors for tumour recurrence

Variable		Lesion recu	urrence	N	<i>P</i> -value	
		No Yes				
Biopsy	Negative	25 (100)	0 (0)	25	0·1199	
margin	Positive	91 (89)	11 (11)	102		
Tumour thickness (mm)		0·26 (0·09– 0·61)	0·57 (0·41– 1·41)	127	< 0.0001	
Thickness	≤ 0·4 mm	108 (100)	0 (0)	108	< 0.0001	
	> 0·4 mm	8 (42)	11 (58)	19		

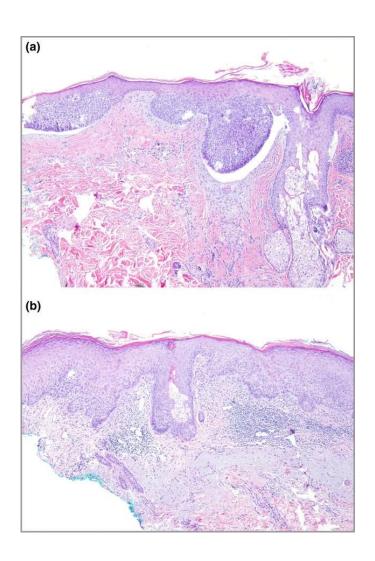


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Thickness	≤ 0·4 mm	108 (100)	0 (0)	108	< 0.0001	
	> 0·4 mm	8 (42)	11 (58)	19		

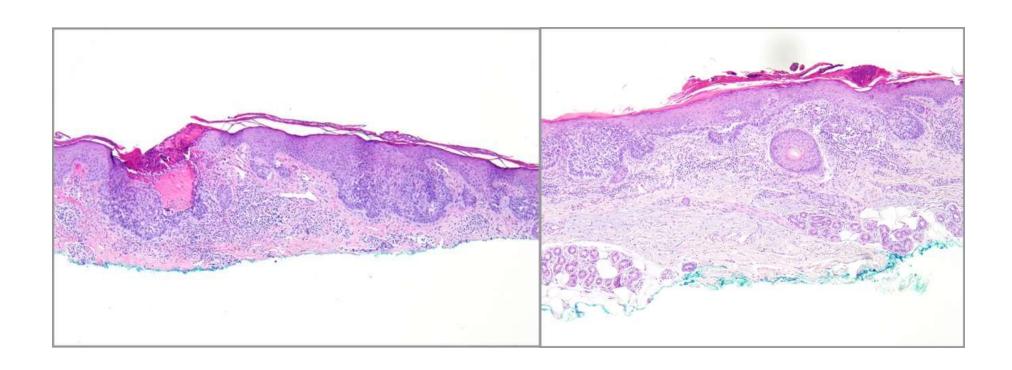
Erasmuls MC

SUPERFICIEEL > 0.4 MM RECIDIEF





< 0.4 MM, GEEN RECIDIEF





Invasiediepte voorspelt respons op imiquimod



Tumor thickness and adnexal extension of superficial basal cell carcinoma (sBCC) as determinants of treatment failure for methylaminolevulinate (MAL)-photodynamic therapy (PDT), imiquimod, and 5-fluorouracil (FU)

Marieke H. Roozeboom, MD, a,c Lotte van Kleef, MD, Aimee H. M. M. Arits, MD, PhD, a,c Klara Mosterd, MD, PhD, a,c Veronique J. L. Winnepenninckx, MD, PhD, Arienne M. W. van Marion, MD, PhD, Patty J. Nelemans, MD, PhD, and Nicole W. J. Kelleners-Smeets, MD, PhD, And Maastricht and Venlo, The Netherlands



Table I. Patient and tumor characteristics for cases (treatment failure) and controls (treatment success)

Characteristics	Treatment failure (n = 112)	Treatment success (n = 224)	P value
Gender, n (%)			.64
Male	57 (51)	107 (48)	
Female	55 (49)	117 (52)	
Age, y			.21
Mean	60	62	
Median (range)	61 (36-88)	61 (26-87)	
Tumor location, n (%)			
Head/neck, reference	17 (15)	26 (12)	
Upper extremities	11 (10)	37 (16)	.09
Lower extremities	19 (17)	26 (12)	.80
Trunk	65 (58)	135 (60)	.38
Tumor surface area, mm ²			.08
Median	66	47	
Tumor thickness, mm			.90
Mean (range)	0.39 (0.20-0.85	0.39 (0.20-1.00)	
Median	0.35	0.35	
≤0.4 mm, n (%)	61 (54)	115 (51)	.64
>0.4 mm, n (%)	51 (46)	109 (49)	
Adnexal extension, n (%)			.30
Absent	101 (90)	192 (86)	
Present	11 (10)	32 (14)	
Treatment, n (%)	, , ,		
MAL-PDT, reference	49 (44)	72 (32)	
Imiquimod	29 (26)	76 (34)	.04
5-FU	34 (30)	76 (34)	.13

P values < .05 were considered to be statistically significant. FU, Fluorouracil; MAL, methylaminolevulinate; PDT, photodynamic therapy.

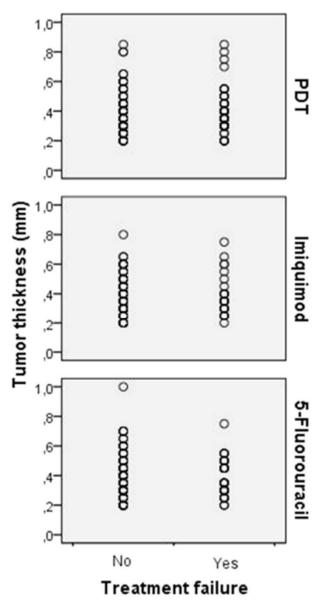


Fig 2. Scatter plot for tumor thickness and treatment failure per treatment. PDT, Photodynamic therapy.



 In Nederlandse trial lijkt invasiediepte geen voorspeller voor behandeling effect



RESEARCH ARTICLE

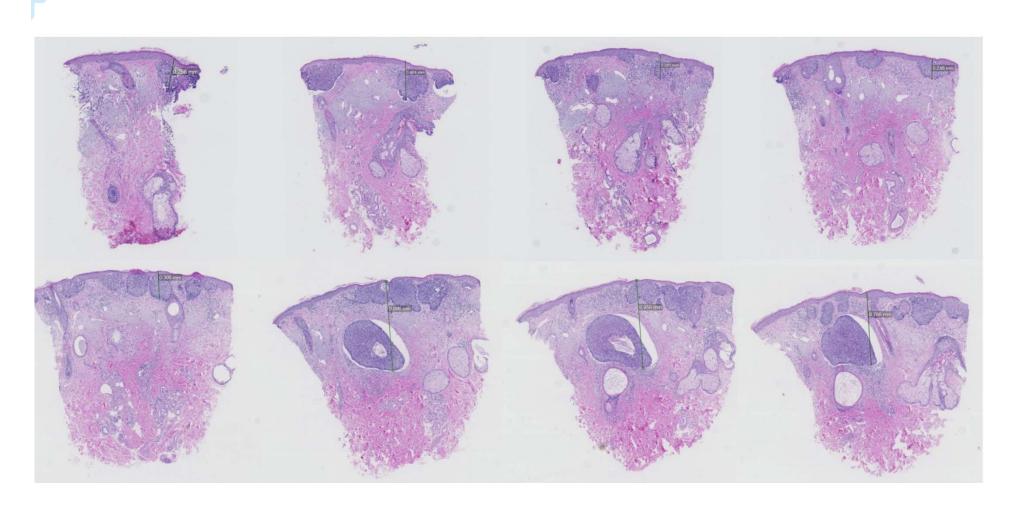
Superficial basal cell carcinoma, think deeper: Step sectioning of skin biopsy specimens yields 14% more aggressive subtypes

Mary-Ann El Sharouni 1*, Paul J. van Diest², Willeke A. M. Blokx²

1 Department of Dermatology, University Medical Center Utrecht, University Utrecht, Utrecht, The Netherlands, 2 Department of Pathology, University Medical Center Utrecht, University Utrecht, University Utrecht, Utrecht, The Netherlands

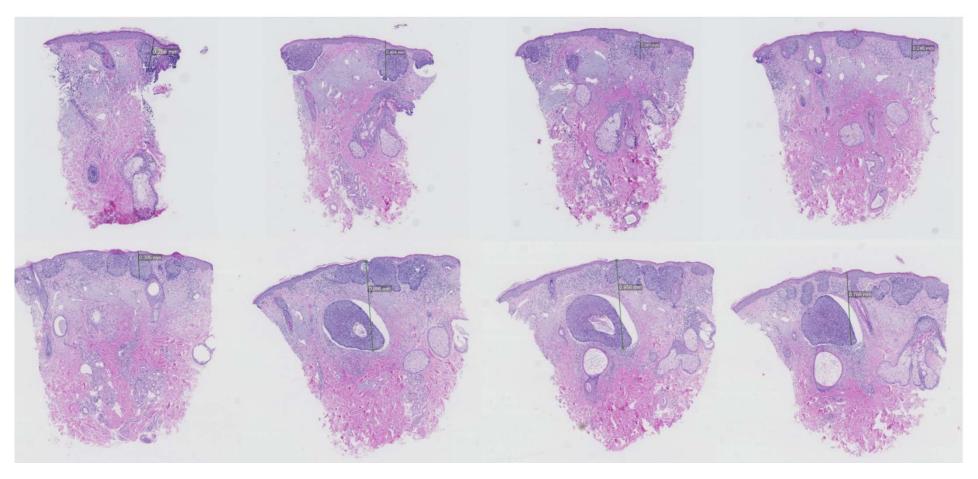
* m.a.elsharouni-2@umcutrecht.nl

Definitie superficieel BCC: =/< 0.4 mm of niet voorbij de oppervlakkige vasculaire plexus



Erasmus MC zafung

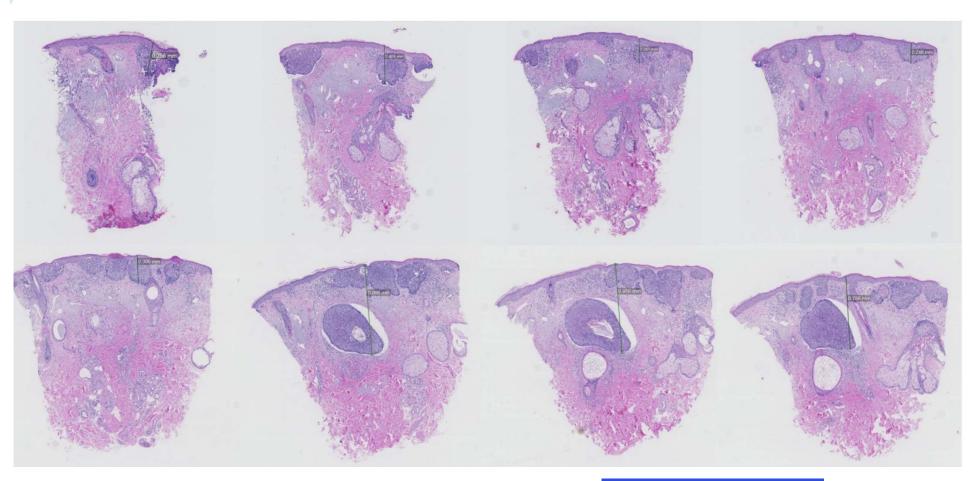
Hoogte 1 t/m 4



Hoogte 5 t/m 8



Hoogte 1 t/m 4



Hoogte 5 t/m 8

14 /100 =14%



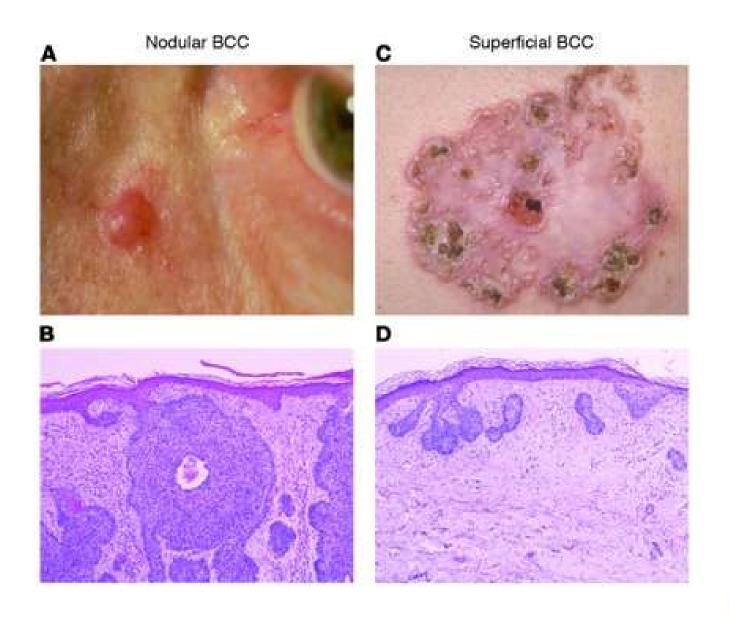
Table 3. Overview of HE levels of the 14 patients with a more aggressive BCC component in deeper HE slides (levels 5–8). All patients had a deeper, nodular component. sBCC = superficial basal cell carcinoma, nBCC = nodular basal cell carcinoma.

Patient nr	Level							
	Standard sectioning level				Additional, deeper sectioning levels			
	1	2	3	4	5	6	7	8
1	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC
2	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC
3	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	NA
4	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC	NA
5	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC
6	sBCC	sBCC	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC
7	sBCC	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC
8	sBCC	sBCC	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC
9	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC
10	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC	nBCC
11	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC	nBCC
12	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC
13*	sBCC	sBCC	sBCC	sBCC	nBCC	sBCC	sBCC	sBCC
14	sBCC	sBCC	sBCC	sBCC	sBCC	nBCC	nBCC	nBCC



- Diepere doorsnijdingen- meer nodulair
- Met name bij hoofd/hals of thorax





Erasmus MC

 Suboptimale definitie van subtype van het basaalcelcarcinoom

Consequenties zijn er wel

