

 #WCD2019

AEDV

HIGHLIGHTS

24th World Congress of Dermatology (WCD)

10-15
JUNIO
2019

Milán



Patrocina:

janssen  Immunology
PHARMACEUTICAL COMPANIES OF 

Organiza:



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Cutaneous lymphomas

Classification and Management

Patrocina:



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Updates in molecular pathogenesis and biomarkers in MF/SS

(Dr. M. Vermeer)

- Next generation sequencing (NGS)
- Pathways involved:
 - T cell activation/NF-kB
 - JAK/STAT
- Mutations in epigenetic genes
 - DNA methylation: DNMT3A, SETDB2, TET2
 - Histone modifications: CREBBP, NCOR1
 - Chromatin remodeling: ARID1a, SMARCB1

Next Generation Sequencing (NGS)			
DNA	Intragenetic	point mutations	NGS
	Chromosomal	gain/loss	NGS
	Chromosomal	translocation, inversion	NGS
	Epigenetic	CpG methylation	NGS
RNA	Δ Expression of mRNA	↓↑	NGS
	Δ Expression of miRNA	↓↑	NGS
Protein	Gain oncoproteins / loss tumor suppressor prot.:		
	Cell signaling/ apoptosis/ metabolism/ cell cycle <i>Functional studies</i>		
Malignancy			

- Potential diagnostic markers in Sèzary syndrome (CMTM2, PROM1, GNMT)
- Molecular subclassification of patients
 - Diagnostic markers
 - Prognostic markers
 - Selection of treatment



Management of Mycosis fungoides (Dra. Scarisbrick)

Accepted Manuscript

The results of Low dose Total Skin Electron Beam Radiotherapy (TSEB), in patients with mycosis fungoides from the UK cutaneous lymphoma group

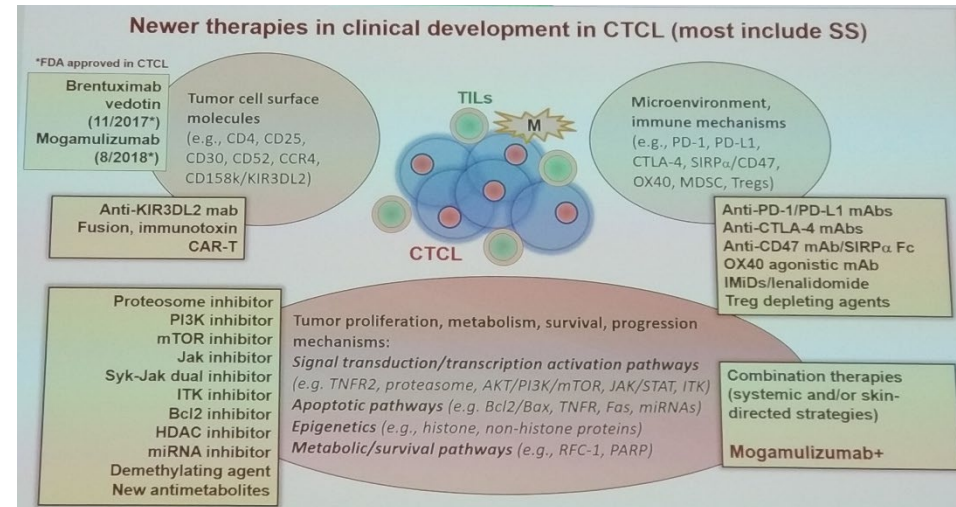
Stephen L. Morris, Julia Scarisbrick, John Frew J, Clive Irwin, Robert Grieve, Caroline Humber, Aleksandra Kuciejewska, Sally Bayne, Sophie Weatherhead, Fiona Child, Marv Wain. Sean Whittaker



- New Low dose Total Skin Electron Beam Radiation
 - Lower dose
 - Shorter treatment
 - Less skin reaction but less duration of response
- Brentuximab vedotin
 - ORR 4 months (56% Vs 13%)
 - CR rate (16% Vs 2%)

Management of Sèzary syndrome (Dra. Kim)

- Management is based on compartmental disease burden and biologic activity
- Combined/Sequential strategies
 - Mogamulizumab (last FDA approved agent): High efficacy in Sèzary burden
 - Romidepsin: global efficacy
 - Skin-directed therapies
- KIR3DL2 as promising therapeutic target in CTCL, especially Sèzary syndrome
 - Higher prevalence in Sèzary syndrome
 - Prognostic significance

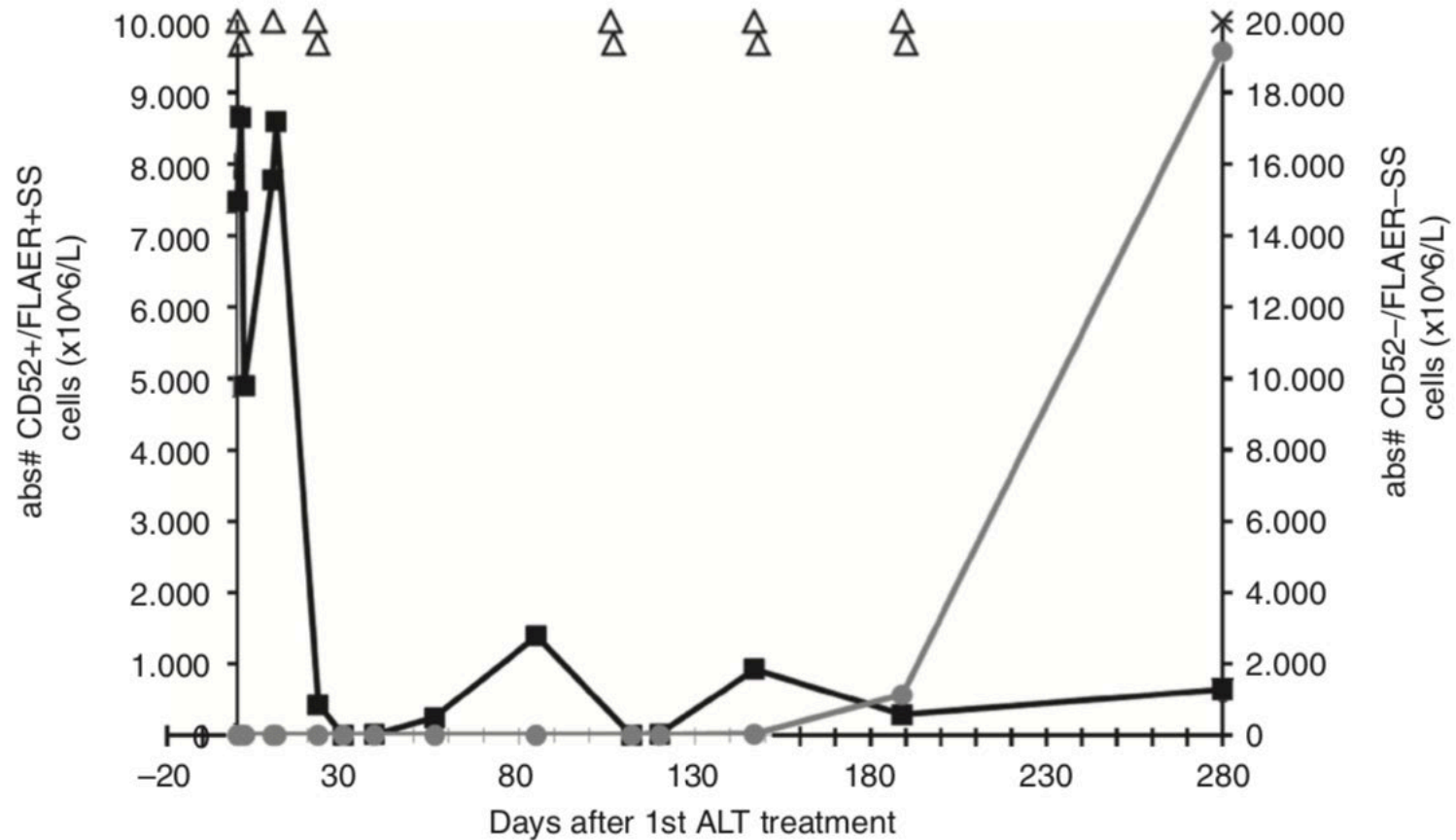


Single-cell heterogeneity in Sézary syndrome

Terkild Brink Buus,¹ Andreas Willerslev-Olsen,¹ Simon Fredholm,¹ Edda Blümel,¹ Claudia Nastasi,¹ Maria Gluud,¹ Tengpeng Hu,¹ Lise M. Lindahl,² Lars Iversen,² Hanne Fogh,³ Robert Gniadecki,³ Ivan V. Litvinov,⁴ Jenny L. Persson,^{5,6} Charlotte Menné Bonefeld,¹ Carsten Geisler,¹ Jan Pravsgaard Christensen,¹ Thorbjørn Krejsgaard,¹ Thomas Litman,¹ Anders Woetmann,¹ and Niels Ødum¹

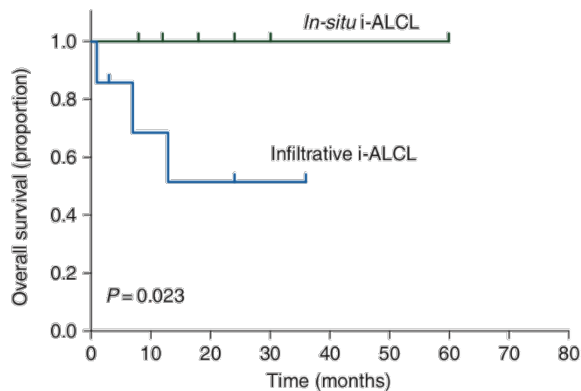
- Single cell RNAseq
- Individual patients with Sèzary syndrome contain several distinct malignant subpopulations and show marked single-cell heterogeneity
- Malignant subpopulations exhibit differences in their sensivity to treatment warranting precision therapy

CD52 negative escape variant emerges during Alemtuzumab treatment



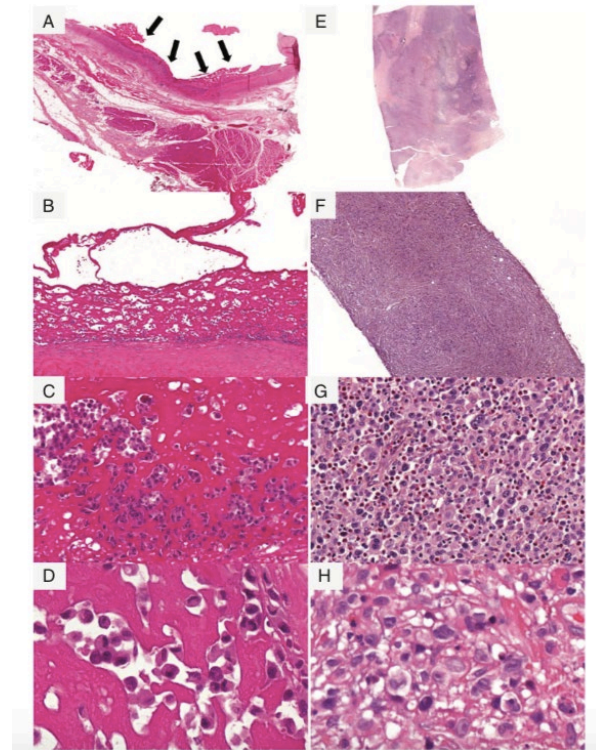
Breast implant-associated anaplastic large cell lymphoma

- Subcutaneous lesions adjacent to breast implant
- EMA positive ALK negative
- In situ/infiltrative
- Indolent/aggressive
- Anaplastic cells limited to fibrous capsule
- Reed-Stenberg-like cells and eosinophils
- Implant removal/additional (chemo)therapy



Breast implant-associated anaplastic large cell lymphoma: two distinct clinicopathological variants with different outcomes

C. Laurent^{1,2*}, A. Delas¹, P. Gaulard^{3,4}, C. Haioun^{4,5}, A. Moreau⁶, L. Xerri⁷, A. Traverse-Glehen⁸, T. Rousset⁹, I. Quintin-Roué¹⁰, T. Petrella¹¹, J. F. Emile¹², N. Amara¹, P. Rochaix¹, M. P. Chenard-Neu¹³, A. M. Tasei¹⁴, E. Menet¹⁵, H. Chomarat¹⁶, V. Costes⁹, L. Andrac-Meyer¹⁷, J. F. Michiels¹⁸, C. Chassagne-Clement¹⁹, L. de Leval²⁰, P. Brousset^{1,2}, G. Delsol^{1,2} & L. Lamant^{1,2}



Breast implant-associated anaplastic large cell lymphoma

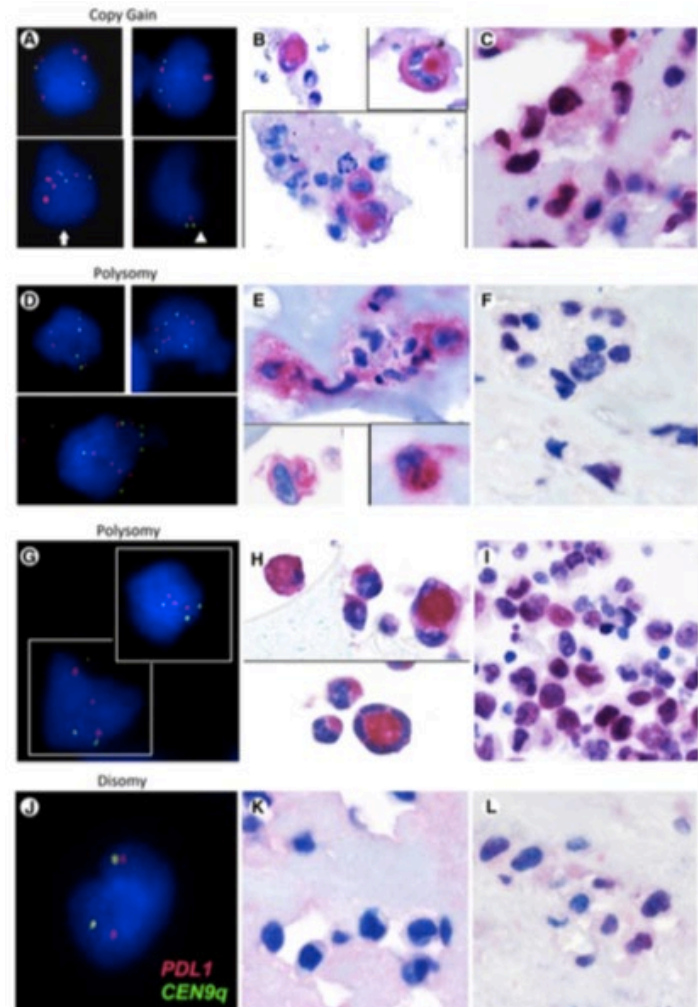
- PD-L1 and PD-L1 amplification
- 9p24.1 alteration common
- ↑ ↑ PD-L1
- In microenvironment ↑ ↑ PD-1 TILs
- ↑ ↑ PD-L1 TAMs
- Active PD-1/PD-L1 axis?
- Potential target in advanced stage?

ACCEPTED MANUSCRIPT

Recurrent PDL1 expression and *PDL1* (*CD274*) copy number alterations in breast implant-associated anaplastic large-cell lymphomas.

Running head: *PDL1* expression in BI-ALCL: mechanisms and therapeutic potential.

Valentina Tabanelli MD,¹ Chiara Corsini BS,² Stefano Fiori MD,¹ Claudio Agostinelli MD PhD,³ Angelica Calleri BS PhD,¹ Stefania Orecchioni BS PhD,² Federica Melle BS PhD,¹ Giovanna Motta BS PhD,¹ Anna Rotili MD,⁴ Arianna Di Napoli MD^{5*} and Stefano A. Pileri MD PhD^{1*}



B-cell cutaneous lymphoma (Dr. Guitart)

- Cutaneous B-cell marginal zone lymphoma
 - Is it really a lymphoma?
 - Secondary to local stimulus (tatto, vaccines, surgery...)
 - Related with autoimmunity disorders, GI disorders, borreliosis...
- Leg types lymphomas have worse prognostic regardless their fenotype (B or T)
- T-cell systemic lymphomas could produce B-cell cutaneous proliferative disorders.



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Advances in the management of Melanoma

Patrocina:

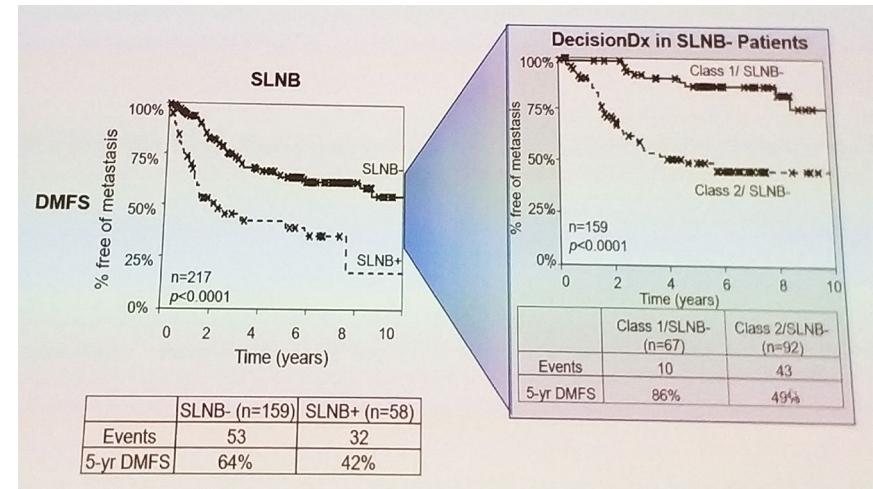


Organiza:



New molecular techniques for cutaneous melanoma diagnosis (Dr. Gerami)

- 31-GEP add prognostic information independent from staging factors
- Improves prediction over SLNB negative status for distant metastasis-free survival

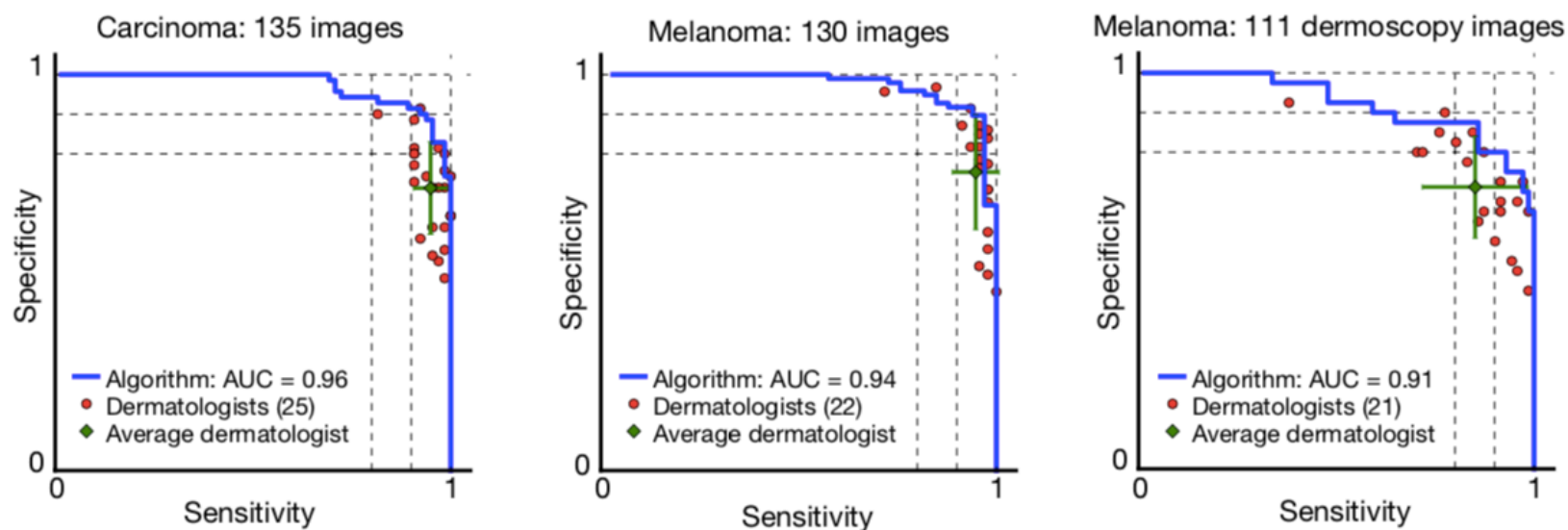


31-GEP result	Probability of a positive sentinel lymph node for T1-T2 patients		
	<55 years (n=370)	55-64 years (n=247)	>65 years (n=448)
Class 1A	7.6%	4.9%	1.6%
Class 1B/2A	19.6%	7.7%	6.9%
Class 2B	24.0%	30.8%	11.9%

- New adhesive tape stripping for melanoma diagnosis

Artificial intelligence for cutaneous melanoma detection (Dra. Swetter)

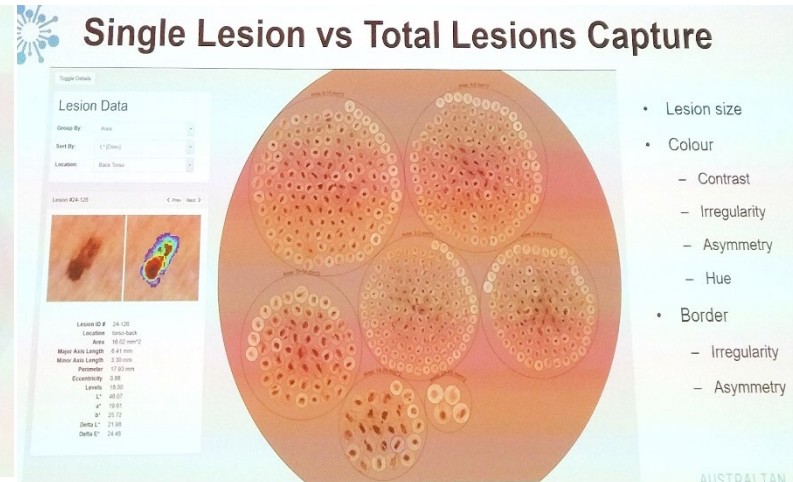
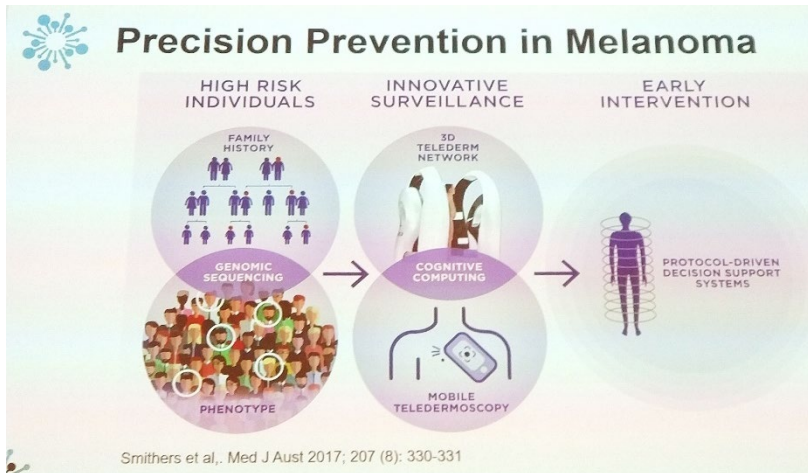
- Results for CNN VS Dermatologists



- CNN performed at least as well as dermatologists as a whole

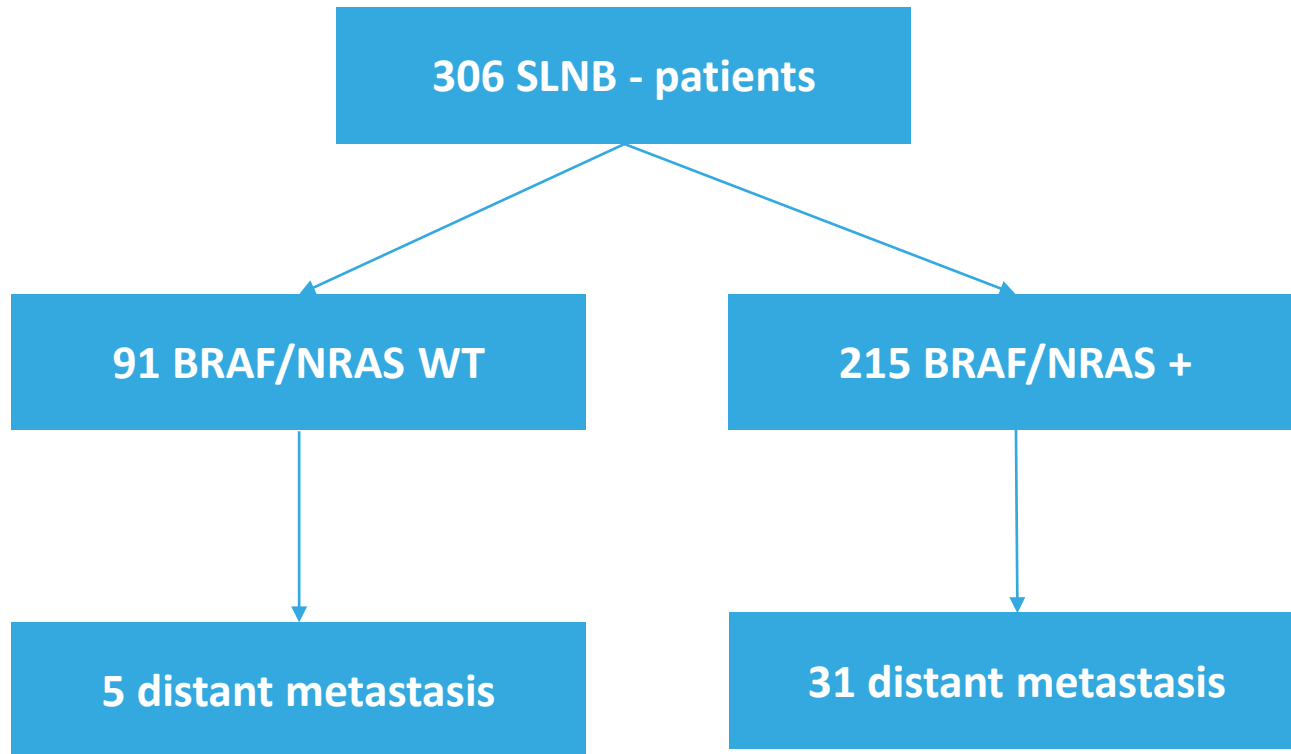
Advanced imaging technology in early melanoma detection (Dr. Soyer)

- Transform melanoma early detection using total body surveillance to enhance individual lesion management
 - Diagnostic intelligence
 - Health service evaluation
 - Informatics
- World's largest most comprehensive skin imaging database



Mutations, metastasis and the importance of multidisciplinary management (Dra. Mar)

- Mutation status might stratify risk in SLNB – patients



Mutations, metastasis and the importance of multidisciplinary management (Dra. Mar)

Mutation status and risk of melanoma death

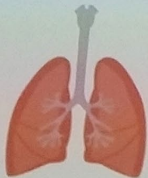
- **BRAF** vs BRAF/NRAS WT aHR 2.95, P=0.001 (MSS)
- **NRAS** vs BRAF/NRAS WT aHR 3.08 P=0.001 (MSS)

*adjusted for age, sex, ulceration, Breslow thickness, histologic subtype and mitotic rate

Sites of Metastasis



CNS **BRAF** aOR= 4.65, **NRAS** aOR=4.03 compared to WT (p<0.001)



Lung **NRAS** aOR=2.44 p=0.013 (BRAF aOR=1.78 p=0.06)



Liver **BRAF** aOR=3.09, P=0.003; **NRAS** aOR=3.17 (p=0.01)

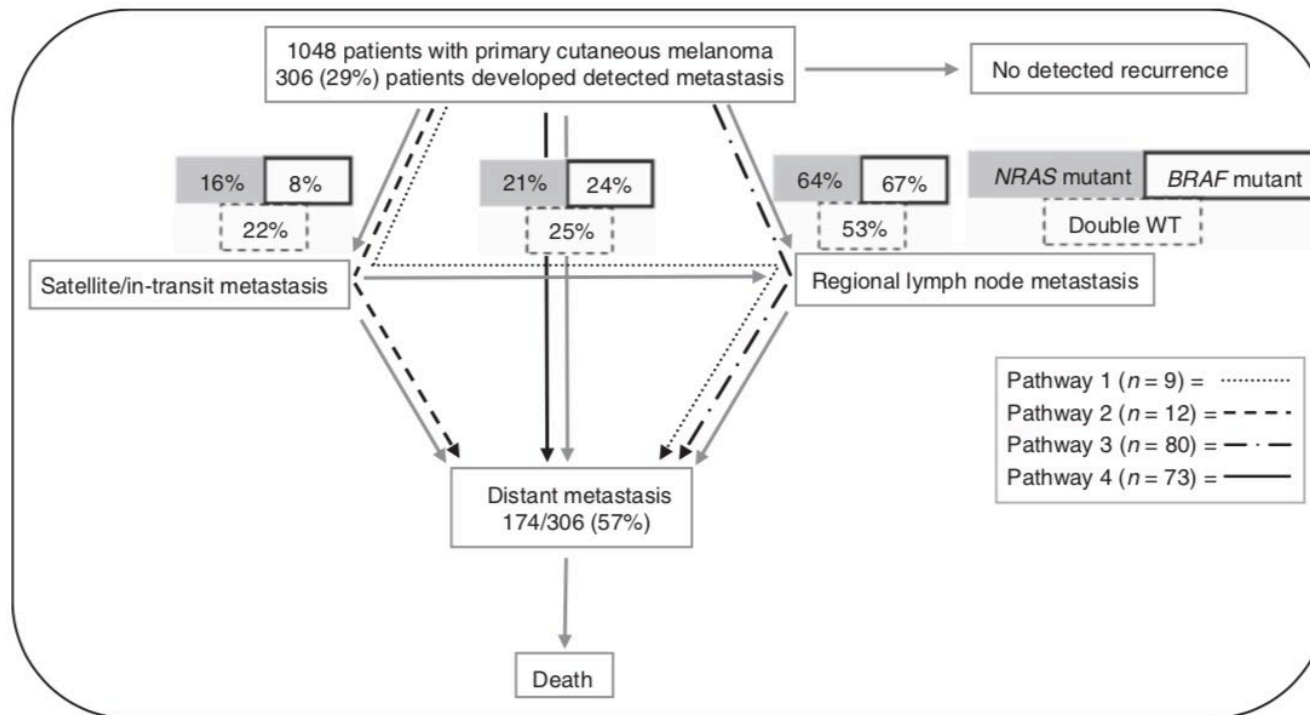
Mutations, metastasis and the importance of multidisciplinary management (Dra. Mar)

BJC FULL PAPER
British Journal of Cancer (2017) 117, 1026–1035 | doi: 10.1038/bjc.2017.254

Keywords: cutaneous melanoma; melanoma; BRAF mutation; mutation status; metastasis; sentinel lymph node biopsy

Tumour mutation status and sites of metastasis in patients with cutaneous melanoma

Nikki R Adler^{*,1,2}, Rory Wolfe², John W Kelly¹, Andrew Haydon^{1,3}, Grant A McArthur^{4,5}, Catriona A McLean^{1,6} and Victoria J Mar^{1,2,7}



Mutations, metastasis and the importance of multidisciplinary management (Dra. Mar)

- Circulating tumor DNA in blood samples
- 133 melanoma patients (III stage)
- 99/126 (79%) had a mutation detected in tumor tissue (BRAF, NRAS, KIT, TP53, TERT)
- ctDNA detected post-op in 13/52 (25%) patients
- **100% relapsed** (compared to 41% undetectable ctDNA)



ORIGINAL ARTICLE

Prediction and monitoring of relapse in stage III melanoma using circulating tumor DNA

Annals of Oncology 0: 1–11, 2019
doi:10.1093/annonc/mdz048
Published online 6 February 2019

L. Tan^{1,2†}, S. Sandhu^{1,2†}, R. J. Lee^{3,4†}, J. Li^{1,2}, J. Callahan¹, S. Ftouni¹, N. Dhomen³, P. Middlehurst³, A. Wallace⁵, J. Raleigh¹, A. Hatzimihalis¹, M. A. Henderson^{1,2}, M. Shackleton⁶, A. Haydon⁶, V. Mar⁶, D. E. Gyorki^{1,7}, D. Oudit^{4,8}, M. A. Dawson^{1,2,9}, R. J. Hicks^{1,2}, P. Lorigan^{4,8}, G. A. McArthur^{1,2}, R. Marais^{3,4†}, S. Q. Wong^{1†} & S.-J. Dawson^{1,2,9**}

