



INSTITUT
JULES BORDET
INSTITUUT

Sarcomas

Christiane Jungels, MD

Institut Jules Bordet
Brussels, Belgium

12th Belgian Symposium on the Integration of Molecular Biology Advances
into Oncology Clinical Practice and Post-MASCC
23^e Novembre 2018

Disclosures

- ◆ Travel expenses : Pharmamar, Bayer, Pfizer

Summary

- ◆ Introduction
- ◆ What's new in 2018 in sarcoma management
- ◆ Future perspectives / promising molecules

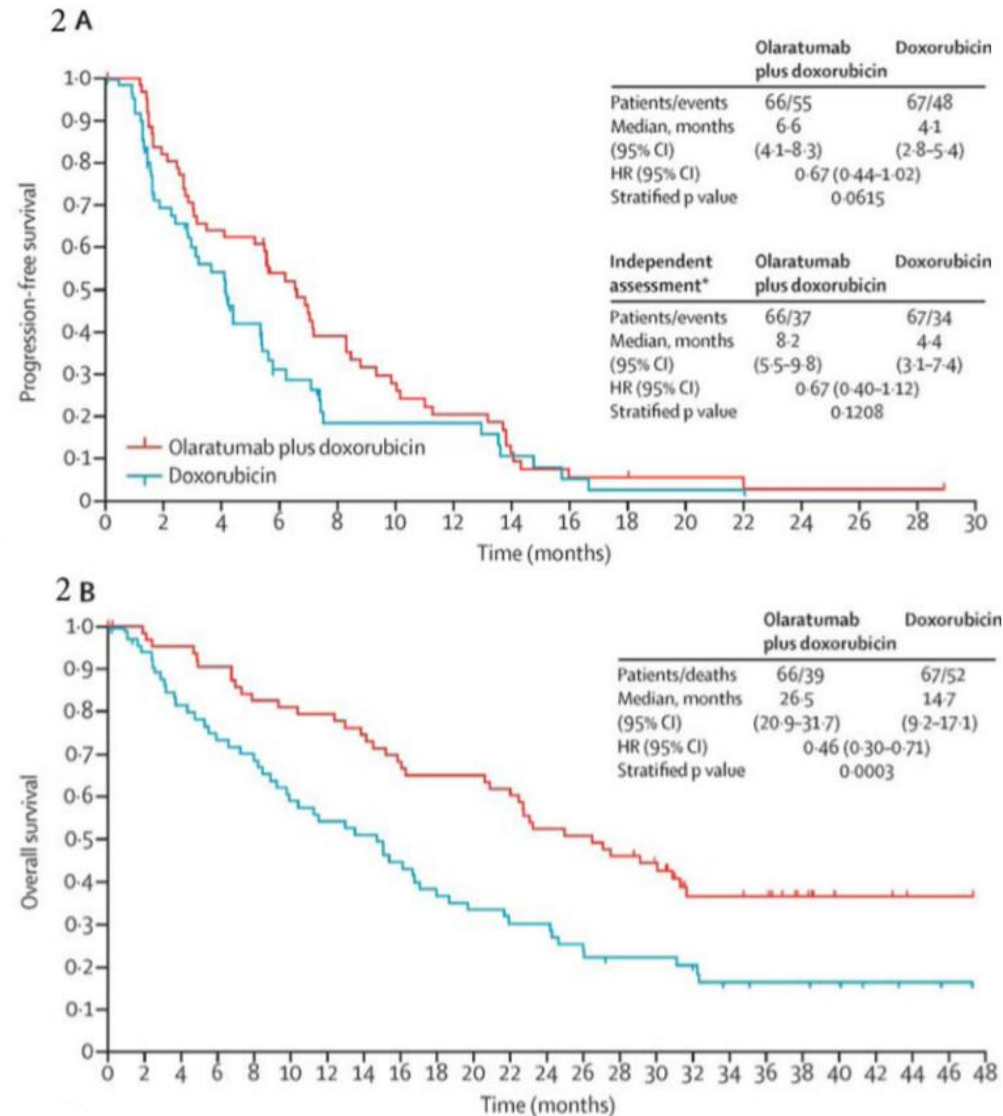
Sarcoma

- ◆ Rare solid tumors ; incidence 2-5/100.000/year
- ◆ Sub-groups
 - ◆ Soft tissue sarcoma
 - ◆ Bone sarcoma
 - ◆ GIST
- ◆ Diverse group of tumors originating from mesenchymal precursors
- ◆ ~ 1% of all adult malignancies

What's new in 2018 in sarcoma management

Olaratumab : reimbursement

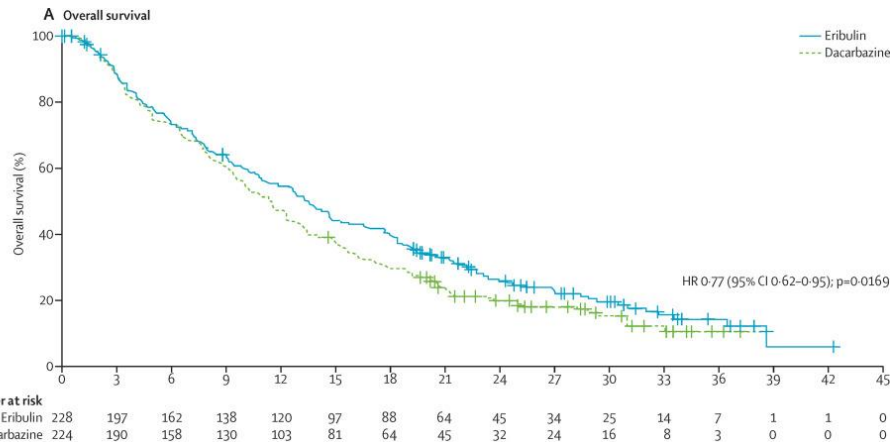
- Phase 1b/2
- Recombinant human IgG1 monoclonal antibody that specifically binds PDGFR α
- Results of phase 3 trial awaiting !
- 34% of tumors were positive for PDGFR α
- The interaction effect between PDGFR α expression (positive or negative) and treatment was not significant for either overall or progression-free survival



Eribulin : reimbursement

Eribulin versus dacarbazine in previously treated patients with advanced liposarcoma or leiomyosarcoma: a randomised, open-label, multicentre, phase 3 trial

- Intermediate-grade or high-grade advanced liposarcoma or leiomyosarcoma
- At least two previous systemic regimens for advanced disease (including an anthracycline)

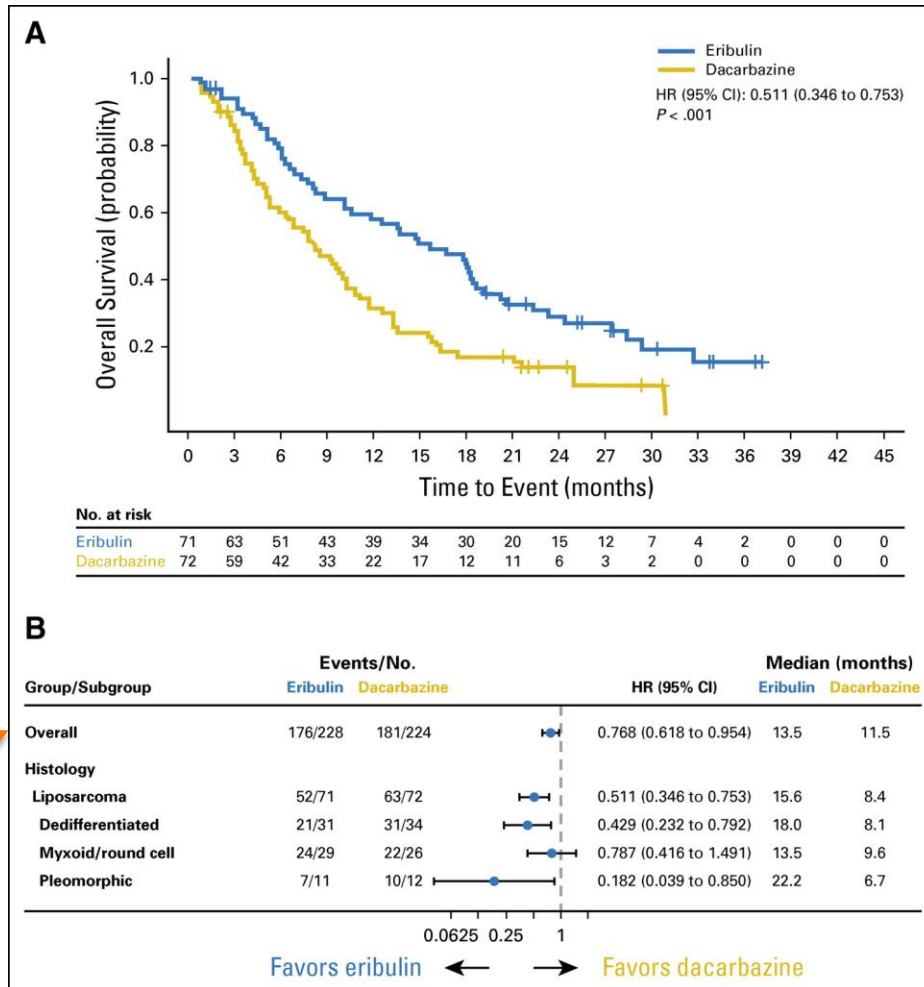
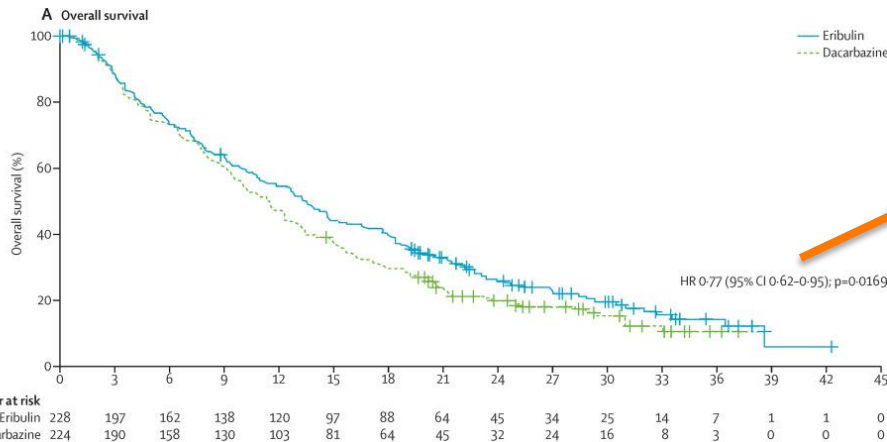


Eribulin : reimbursement

Eribulin versus dacarbazine in previously treated patients with advanced liposarcoma or leiomyosarcoma: a randomised, open-label, multicentre, phase 3 trial

Activity of Eribulin in Patients With Advanced Liposarcoma Demonstrated in a Subgroup Analysis From a Randomized Phase III Study of Eribulin Versus Dacarbazine

- Intermediate-grade or high-grade advanced **liposarcoma** or leiomyosarcoma
- At least two previous systemic regimens for advanced disease (including an anthracycline) **≠ !**



New ESMO Guidelines



Annals of Oncology 29 (Supplement 4): iv51–iv67, 2018
doi:10.1093/annonc/mdy096
Published online 28 May 2018



Annals of Oncology 29 (Supplement 4): iv68–iv78, 2018
doi:10.1093/annonc/mdy095
Published online 28 May 2018

CLINICAL PRACTICE GUIDELINES

Soft tissue and visceral sarcomas: ESMO–EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

P. G. Casali¹, N. Abecassis², S. Bauer³, R. Biagini⁴, S. Bielsack⁵, S. Bonvalot⁶, I. Boukovinas⁷, J. V. M. G. Bovee⁸, T. Brodowicz⁹, J. M. Broto¹⁰, A. Buonadonna¹¹, E. De Álava¹⁰, A. P. Dei Tos¹², X. G. Del Muro¹³, P. Dileo¹⁴, M. Eriksson¹⁵, A. Fedenko¹⁶, V. Ferraresi¹⁷, A. Ferrari¹⁸, S. Ferrari¹⁹, A. M. Frezza¹, S. Gasperoni²⁰, H. Gelderblom²¹, T. Gil²², G. Grignani²³, A. Gronchi¹, R. L. Haas²⁴, A. Hannu²⁵, B. Hassan²⁶, P. Hohenberger²⁷, R. Issels²⁸, H. Joensuu²⁹, R. L. Jones³⁰, I. Judson³¹, P. Jutte³², S. Kaal³³, B. Kasper²⁷, K. Kopeckova³⁴, D. A. Krákorová³⁵, A. Le Cesne³⁶, I. Lugowska³⁷, O. Merimsky³⁸, M. Montemurro³⁹, M. A. Pantaleo⁴⁰, R. Piana⁴¹, P. Picci¹⁹, S. Piperno-Neumann⁶, A. L. Pousa⁴², P. Reichardt⁴³, M. H. Robinson⁴⁴, P. Rutkowski³⁷, A. A. Safwat⁴⁵, P. Schöffski⁴⁶, S. Sleijfer⁴⁷, S. Stacchiotti⁴⁸, K. Sundby Hall⁴⁹, M. Unk⁵⁰, F. Van Coevorden⁵¹, W. Van der Graaf⁵⁰, J. Whelan⁵², E. Wardelmann⁵³, O. Zaikova⁵⁴ & J. Y. Blay⁵⁵, on behalf of the ESMO Guidelines Committee and EURACAN^{*}

CLINICAL PRACTICE GUIDELINES

Gastrointestinal stromal tumours: ESMO–EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

P. G. Casali¹, N. Abecassis², S. Bauer³, R. Biagini⁴, S. Bielsack⁵, S. Bonvalot⁶, I. Boukovinas⁷, J. V. M. G. Bovee⁸, T. Brodowicz⁹, J. M. Broto¹⁰, A. Buonadonna¹¹, E. De Álava¹⁰, A. P. Dei Tos¹², X. G. Del Muro¹³, P. Dileo¹⁴, M. Eriksson¹⁵, A. Fedenko¹⁶, V. Ferraresi¹⁷, A. Ferrari¹⁸, S. Ferrari¹⁹, A. M. Frezza¹, S. Gasperoni²⁰, H. Gelderblom²¹, T. Gil²², G. Grignani²³, A. Gronchi¹, R. L. Haas²⁴, A. Hannu²⁵, B. Hassan²⁶, P. Hohenberger²⁷, R. Issels²⁸, H. Joensuu²⁹, R. L. Jones³⁰, I. Judson³¹, P. Jutte³², S. Kaal³³, B. Kasper²⁷, K. Kopeckova³⁴, D. A. Krákorová³⁵, A. Le Cesne³⁶, I. Lugowska³⁷, O. Merimsky³⁸, M. Montemurro³⁹, M. A. Pantaleo⁴⁰, R. Piana⁴¹, P. Picci¹⁹, S. Piperno-Neumann⁶, A. L. Pousa⁴², P. Reichardt⁴³, M. H. Robinson⁴⁴, P. Rutkowski³⁷, A. A. Safwat⁴⁵, P. Schöffski⁴⁶, S. Sleijfer⁴⁷, S. Stacchiotti⁴⁸, K. Sundby Hall⁴⁹, M. Unk⁵⁰, F. Van Coevorden⁵¹, W. Van der Graaf⁵⁰, J. Whelan⁵², E. Wardelmann⁵³, O. Zaikova⁵⁴ & J. Y. Blay⁵⁵, on behalf of the ESMO Guidelines Committee and EURACAN^{*}

Bone sarcomas: ESMO–PaedCan–EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

P. G. Casali^{†1}, S. Bielsack^{†2}, N. Abecassis³, H.T. Aro⁴, S. Bauer⁵, R. Biagini⁶, S. Bonvalot⁷, I. Boukovinas⁸, J. V. M. G. Bovee⁹, B. Brennan¹⁰, T. Brodowicz¹¹, J. M. Broto¹², L. Brugières¹³, A. Buonadonna¹⁴, E. De Álava¹⁵, A. P. Dei Tos¹⁶, X. G. Del Muro¹⁷, P. Dileo¹⁸, C. Dhooge¹⁹, M. Eriksson²⁰, F. Fagioli²¹, A. Fedenko²², V. Ferraresi⁶, A. Ferrari²³, S. Ferrari²⁴, A. M. Frezza²⁵, N. Gaspar¹³, S. Gasperoni²⁶, H. Gelderblom²⁷, T. Gil²⁸, G. Grignani²⁹, A. Gronchi¹, R. L. Haas³⁰, B. Hassan³¹, S. Hecker-Nolting², P. Hohenberger³², R. Issels³³, H. Joensuu³⁴, R. L. Jones³⁵, I. Judson³⁶, P. Jutte³⁷, S. Kaal³⁸, L. Kager³⁹, B. Kasper³², K. Kopeckova⁴⁰, D. A. Krákorová⁴¹, R. Ladenstein³⁹, A. Le Cesne¹³, I. Lugowska⁴², O. Merimsky⁴³, M. Montemurro⁴⁴, B. Morland⁴⁵, M. A. Pantaleo⁴⁶, R. Piana²¹, P. Picci²⁴, S. Piperno-Neumann⁷, A. L. Pousa⁴⁷, P. Reichardt⁴⁸, M. H. Robinson⁴⁹, P. Rutkowski⁴², A. A. Safwat⁵⁰, P. Schöffski⁵¹, S. Sleijfer⁵², S. Stacchiotti²⁵, S. J. Strauss¹⁸, K. Sundby Hall⁵³, M. Unk⁵⁴, F. Van Coevorden⁵⁵, W.T.A. van der Graaf^{35,38,55}, J. Whelan¹⁸, E. Wardelmann⁵⁶, O. Zaikova⁵⁷ & J. Y. Blay⁵⁸, on behalf of the ESMO Guidelines Committee, PaedCan and ERN EURACAN^{*}

Casali PG et al., *Annals of Oncology*, Volume 29, Issue Supplement_4, 1 October 2018, Pages iv51–iv67

Casali PG et al., *Annals of Oncology*, Volume 29, Issue Supplement_4, 1 October 2018, Pages iv68–iv78

Casali PG et al., *Annals of Oncology*, Volume 29, Issue Supplement_4, 1 October 2018, Pages iv79–iv95

Future perspectives

Promising molecules

Immunotherapy and sarcomas

- ♦ Characteristics that may facilitate response to immunotherapy :
 - ♦ Inflammatory signature, PDL, TILS, mutational load?
- ♦ Few neo-antigens → few responses to CPI
- ♦ Expression of immunogenic proteins and antigens
 - ♦ Cancer-testis antigen family
(NY-ESO-1, MAGE-A3, PRAME, LAGE-1)
 - ♦ Gangliosides
(GM2, GD2, GD3)
 - ♦ Sarcoma Specific Fusion Proteins
(SSX, FOXO1, EWSR1, TLS CHOP)
 - ♦ Heat shock proteins
- ♦ Limitations : rare and heterogeneous tumors

Table 2 Reported PD-L1 expression in some sarcoma

Sarcoma subtype	Positive cases (%)
Angiosarcoma	50–80
Chondrosarcoma	41–75
Ewing sarcoma	29–67
Leiomyosarcoma	32–70
Malignant peripheral nerve sheath tumor	17–67
Osteosarcoma	28–57
Rhabdomyosarcoma	38–63
Synovial sarcoma	25–75
Dedifferentiated liposarcoma	67–82
Gastrointestinal stromal tumor	29

Durvalumab plus tremelimumab shows modest activity for advanced sarcoma

- 46 patients
- 5 PR :
 - 1 UPS (25%)
 - 1 angiosarcoma (20%)
 - 3 alveolar soft par sarcoma (50%)
- Disease control rate alveolar soft part sarcoma : 83%
- OS 14.5 mois, PFS 4.1 mois

Nivolumab with or without ipilimumab treatment for metastatic sarcoma (Alliance A091401): two open-label, non-comparative, randomised, phase 2 trials

Confirmed responses :

- 2 (5%) des 38 patients du groupe nivolumab
- 6 (16%) des 38 patients du groupe nivolumab plus ipilimumab

New ASPS Clinical Trial: Axitinib and Pembrolizumab in Subjects With Advanced Alveolar Soft Part Sarcoma and Other Soft Tissue Sarcomas

	Best overall response, N (%)
All patients (N=29)	PR 5 (17) SD 9 (31) PD 15 (52)
ASPS (N=9)	PR 4 (44) SD 3 (33) PD 2 (22)
Non-ASPS (N=20)	PR 1 (5) SD 6 (30) PD 13 (65)

PHASE II STUDY OF ATEZOLIZUMAB IN PATIENTS WITH ALVEOLAR SOFT PART SARCOMA

18 pts : PRs was observed in 7/18 pts (39%) with 5/7 pts (28%) having a confirmed PR

Immune response, safety, and survival impact from CMB305 in NY-ESO-1+ recurrent soft tissue sarcomas (C131 study)

• LV305 Priming:

- Dendritic cell (DC) targeting NY-ESO-1 lentiviral vector encoding full length NY-ESO-1
- Integration deficient, replication incompetent
- Induces and expands NY-ESO-1 specific CD8 and CD4 T Cells

• G305 boosting:

- Potent TLR-4 agonist co-formulated with NY-ESO-1 full length protein
- Enhances LV305 immunogenicity and triggers anti-NY-ESO-1 antibodies

CMB305 is an active immunotherapy regimen designed to generate and expand anti-NY-ESO-1 T and B cells

	STS (N=25)	Synovial sarcoma (N=15)	Myxoid/round cell sarcoma (N=8)
Overall response rate, N (%)	0	0	
Stable disease, N (%)	17 (68)	8 (57)	6 (75)
PFS, median months	3.9	3.7	
6-months PFS rate, %	33.3	30.8	
12-months PFS rate, %	20.8	23.1	
Median OS, months		23.7	29.2

→ Randomized phase II with atezolizumab (IMDZ-C232) = closed

→ Randomized phase III as maintenance after chemotherapy (IMDZ-04-1702) = stopped

Immunotherapy and sarcomas

- ◆ CPI monotherapy : deception
- ◆ Combinations and adoptive cellular therapy :
 - ◆ more promising
 - ◆ promising for certain types of sarcomas

A phase 2, multicenter study of the EZH2 inhibitor tazemetostat in adults (INI1-negative tumors cohort) (NCT02601950)

Endpoint Category, n (%)	Total N=32
ORR (CR + PR)	3 (9)
95% CI	2.0–25.0
Best response	
CR	0
PR	3 (9)
SD	13 (41)
PD	10 (31)
Non-evaluable, missing, or unknown	6 (19)

→ Sarcomas : 13

→ 2 of 2 spindle cell sarcomas

- Integrase interactor 1 (INI1) = SWI/ SNF subunit
- SWI/SNF = ATP-dependant chromatin remodeling complexe, restructuring the nucleosome to make its DNA accessible during transcription, replication and DNA repair
- INI1 loss can induce tumor dependence on enhancer of zeste homolog 2 (EZH2), a histone methyltransferase
- Tazemetostat = potent, selective, oral EZH2 inhibitor

A phase 2, multicenter study of the EZH2 inhibitor tazemetostat in adults: (epithelioid sarcoma cohort) (NCT02601950)

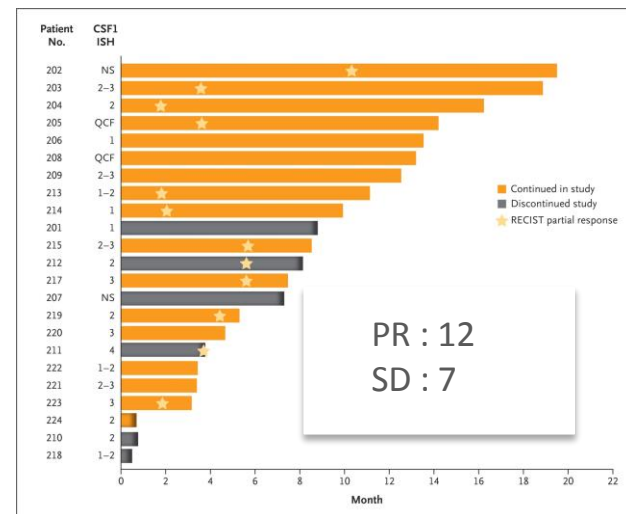
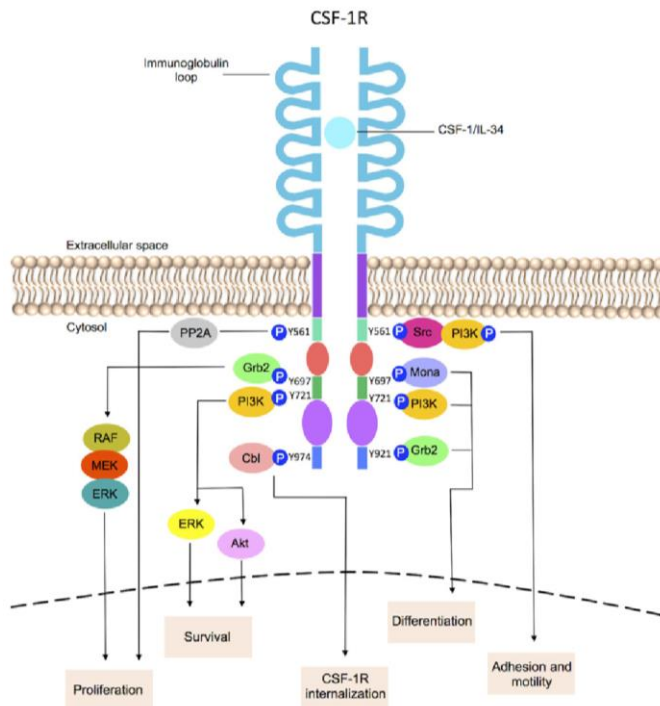
Endpoint Category, n (%)	No Prior Anticancer Therapy N=24	Prior Anticancer Therapy N=38	Total N=62
DCR [CR + PR + (SD≥32 weeks)]	9 (38)	6 (16)	15 (24)
ORR (CR + PR)	5 (21)	3 (8)	8 (13)
Best Response			
CR	0	0	0
PR	5 (21)	3 (8)	8 (13)
SD	16 (67)	20 (53)	36 (58)
PD	2 (8)	11 (29)	13 (21)
NE, missing, or unknown	1 (4)	4 (11)	5 (8)

Structure-Guided Blockade of CSF1R Kinase in Tenosynovial Giant-Cell Tumor

= pigmented villonodular synovitis/PVNS

- ♦ Characterized by a proliferation of synoviocytes
- ♦ Marked by a disease specific fusion involving the colony-stimulating factor 1 receptor gene (CSF1R)

- ◆ **PLX3397 = Pexidartinib**
 - potent, selective CSF1R inhibitor
- ◆ **Phase I/II trial**
 - 41 pts in dose-escalation part → 1000mg/day
 - 23 pts in extension part



- Phase III trial (ENLIVEN study) vs placebo
 - 120 pts → ORR : 55.7%

-
- The diagram illustrates the Gamma Secretase Pathway and its downstream signaling. At the top, Notch receptors (Delta, Serrate/Jagged) are shown with their extracellular domains and transmembrane domains. The Notch receptor is cleaved by the Gamma Secretase Complex, which consists of PEN2, PS1/2, Nicastrin, and Apha1. This cleavage releases the Notch Intracellular Domain (NICD). The Gamma Secretase Complex is also involved in the cleavage of APP (Amyloid Precursor Protein) and BACE1, leading to the formation of Aβ deposits, which are associated with Alzheimer's Disease. The NICD then translocates to the nucleus, where it interacts with various transcription factors and co-repressors. In the nucleus, NICD can interact with SMAD1, SMAD4, and SMAD6, leading to the formation of the SMAD complex, which is involved in the regulation of gene expression. Alternatively, NICD can interact with RBPJK, leading to the regulation of gene transcription. The diagram also shows the role of the ER (Endoplasmic Reticulum) in the regulation of the pathway, with Ca²⁺ release from the ER leading to the activation of the Gamma Secretase Complex. The diagram also shows the role of the Golgi apparatus in the regulation of the pathway, with the Golgi apparatus being involved in the transport of the Gamma Secretase Complex. The diagram also shows the role of the mitochondria in the regulation of the pathway, with the mitochondria being involved in the regulation of the Gamma Secretase Complex. The diagram also shows the role of the lysosomes in the regulation of the pathway, with the lysosomes being involved in the degradation of the Gamma Secretase Complex. The diagram also shows the role of the Golgi apparatus in the regulation of the pathway, with the Golgi apparatus being involved in the transport of the Gamma Secretase Complex. The diagram also shows the role of the mitochondria in the regulation of the pathway, with the mitochondria being involved in the regulation of the Gamma Secretase Complex. The diagram also shows the role of the lysosomes in the regulation of the pathway, with the lysosomes being involved in the degradation of the Gamma Secretase Complex.



ACTIVITY OF LAROTRECTINIB IN SARCOMA PATIENTS WITH TRK FUSION CANCER

- ♦ Tropomyosin receptor kinases (TRKs) are encoded by neurotrophic tyrosine receptor kinase genes (NTRKs)
- ♦ Aberrant genomic translocations involving NTRK genes have been shown to give rise to constitutively active, oncogenic TRK fusion proteins
- ♦ Larotrectinib is a potent and highly selective TRK inhibitor

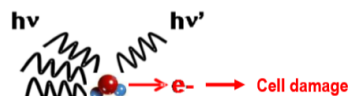
- ♦ As of February 19 2018 : 32 pts with TRK fusion sarcoma
 - 17 soft tissue sarcomas (STS)
 - 10 infantile fibrosarcoma (IFS)
 - 5 gastrointestinal stromal tumors (GIST)
- ♦ ORR 91% overall
 - 88% in STS (15/17)
 - 90% in IFS (9/10)
 - 100% in pts with GIST (5/5)
 - **6 CR**

- ♦ 8 distinct NTRK gene fusions were detected, ETV6-NTRK3 fusion being the most common (11 pts)
- ♦ Other fusions identified included : TPM3-NTRK1, LMNA-NTRK1, LMNA-NTRK3, PDE4DIP-NTRK1, SQSTM1NTRK1, STRN-NTRK2, and TPM4-NTRK3

A PHASE II/III TRIAL OF HAFNIUM OXIDE NANOPARTICLES ACTIVATED BY RADIOTHERAPY IN THE TREATMENT OF LOCALLY ADVANCE SOFT TISSUE SARCOMA OF THE EXTREMITY AND TRUNK WALL

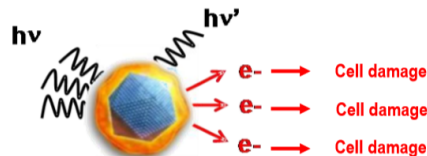


Radiotherapy alone



Interaction of Xray with water generates electrons

Radiotherapy with NBTXR3



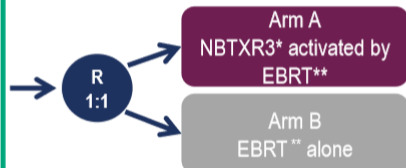
Interaction with Hafnium is higher and generates much more electrons killing cell more efficiently

NBTXR3 is a first in class radio-enhancer with a physical mode of action increasing the dose absorbed by 9x around clusters, triggering more cell damage*

Phase II/III randomized, multi-center, open-label and active controlled two arms study

Soft Tissue sarcoma (STS) of the extremity and trunk wall

- Age ≥ 18 years-old
- Locally advanced soft tissue sarcoma, newly diagnosed or relapsed tumor
- High-risk tumor
- Unresectable tumor or unfeasible carcinological surgical resection
- WHO score of 0 to 2



N=180 randomized §

32 sites in 11 countries in Europe and Asia

Primary endpoint:

- Pathological complete response rate# (pCRR) following EORTC Guidelines⁽¹⁾

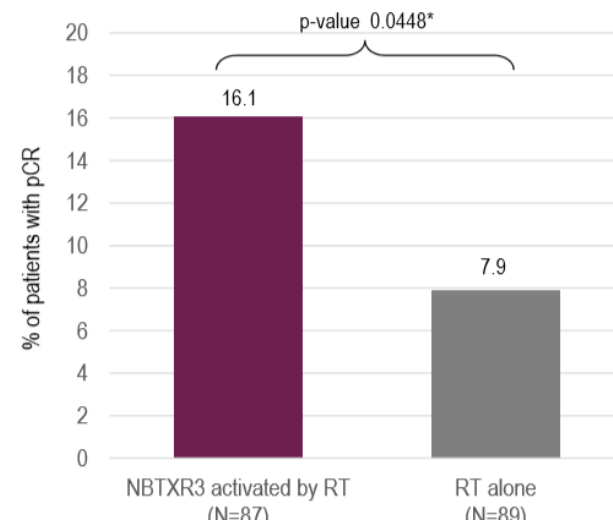
Secondary endpoints:

- Safety
- Carcinologic resection (surgical margin, R0, ...)
- Pathological Response (pR)
- Amputation rate

Stratification:

- Myxoid liposarcoma / other

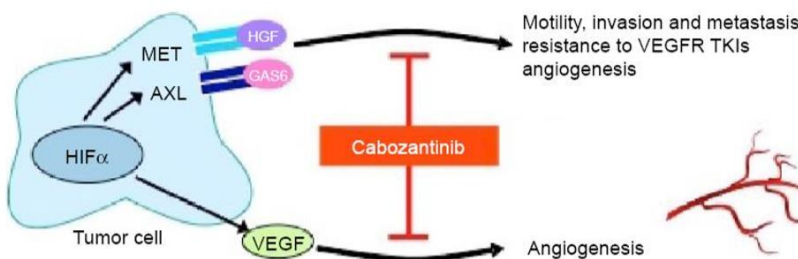
- ◆ Primary endpoint : pCRR
- ◆ Main secondary endpoint : quality of surgery-R0 rate
- ◆ Grade 3-4 acute immune reactions in 7.9% of patients, manageable and of short duration
- ◆ RT safety profile similar in both arms, including postsurgical wound complications



CABOZANTINIB IN PATIENTS WITH ADVANCED OSTEOSARCOMAS AND EWING SARCOMAS

A French Sarcoma Group (FSG)/ US National Cancer Institute phase II collaborative study.

- ◆ Cabozantinib : potent, orally bioavailable, multitargeted, small-molecule inhibitor of VEGFR-2, AXL, c-MET
- ◆ Aberrant angiogenesis
 - ◆ common feature of Ewing and osteosarcomas
- ◆ MET overexpression
 - ◆ frequent
 - ◆ associated with adverse outcome



Approved for

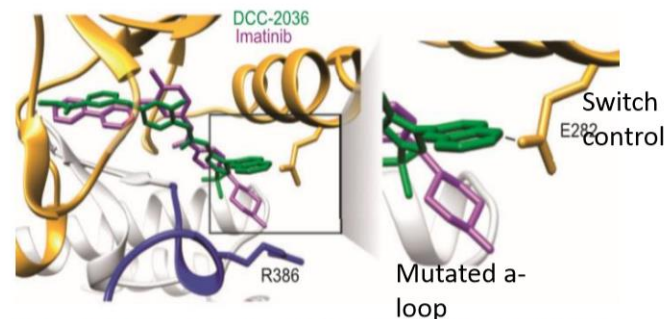
- RCC
- MTC

Cabozantinib has demonstrated the highest antitumor activity ever observed in single-arm studies including osteosarcoma and Ewing's sarcoma patients with heavily pre-treated advanced disease

	Osteosarcomas (n=41)	Ewing's sarcomas (n=32)
Tumor burden reduction ate	41%	71%
Objective response rate	11.9%	28.1%
Median PFS (months)	6.2	5.2
Median OS (months)	10.6	9.8

Initial Results of Phase 1 Study of DCC-2618, a Broad-spectrum KIT and PDGFR α Inhibitor, in Patients (pts) with Gastrointestinal Stromal Tumor (GIST) by Number of Prior Regimens.

- Secondary resistance to first-line imatinib
 - eventually develops over the course of treatment in about 80% of responding patients
 - mostly due to KIT exon 13, 17 and 18 mutations



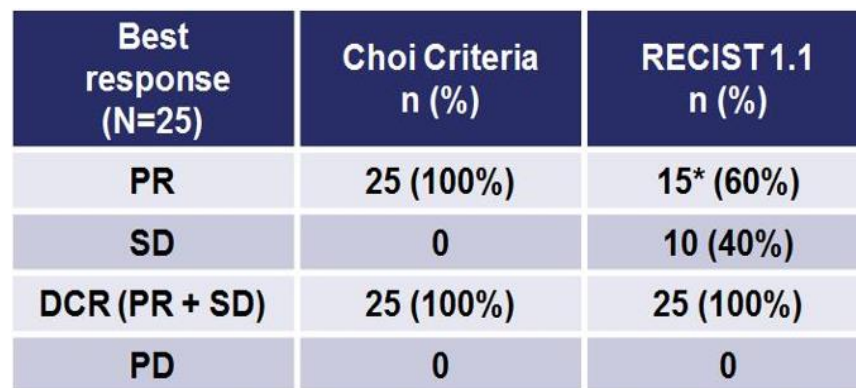
DCC-2618 is a Type II switch control kinase inhibitor
- Acts in a ATP-noncompetitive manner.

DCC-2618 Results Provided Encouraging Efficacy across all Lines of Treatment ≥ 100 mg/d (n=178)

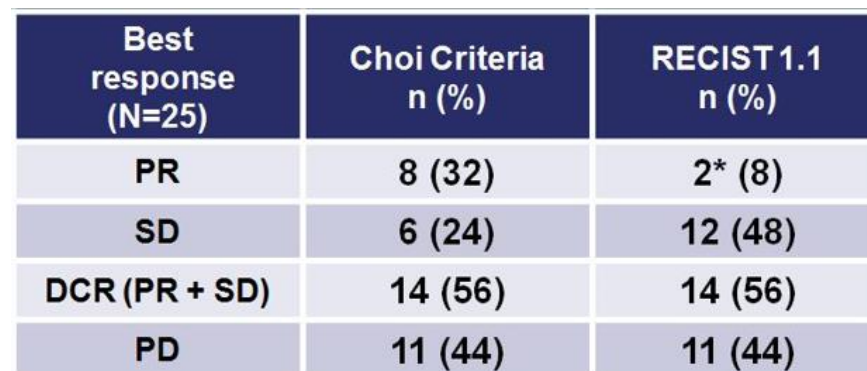
Line of Therapy	Objective Response Rate ^[1]	Disease Control Rate @ 3 Months	Median Progression Free Survival (mPFS)	Censored Patients for mPFS	Median Treatment Duration ^[4]
2 nd Line (n=38)	18% ^[2] (7/38)	79%	42 weeks (24, NE)	58%	48 weeks (31, NE)
3 rd Line (n=29)	24% (7/29)	83%	40 weeks (24, NE)	52%	NR (36, NE)
$\geq 4^{\text{th}}$ Line (n=111)	9% (10/106) ^[3]	66%	24 weeks (16, 30)	35%	28 weeks (22, 47)
2 nd & 3 rd Line (n=67)	21% ⁽²⁾ (14/67)	81%	40 weeks (24, NE)	55%	52 weeks (36, NE)

ASCO ANNUAL MEETING '17

PDGFR α D842V-mutant GIST

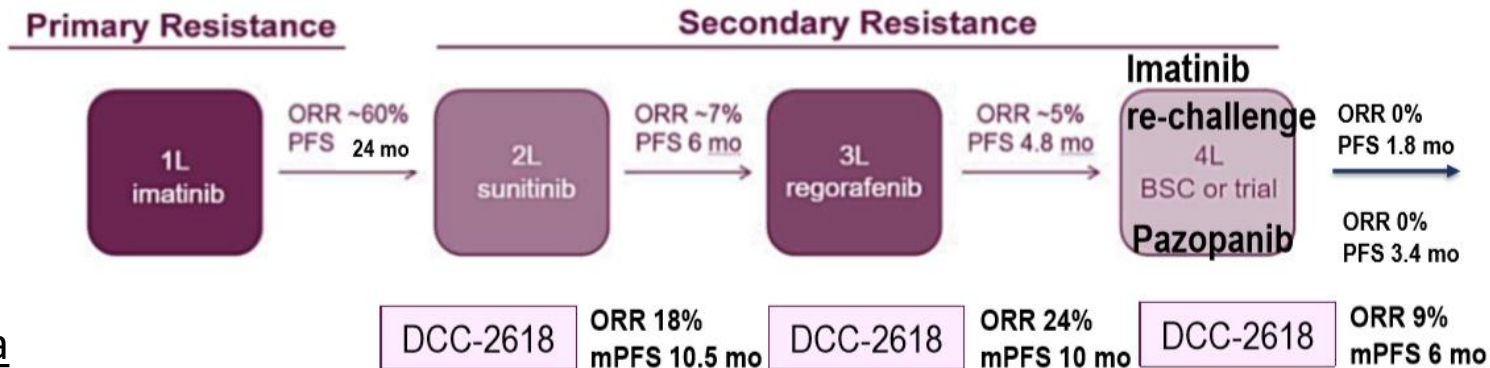


Heavily pre-treated KIT-mutant GIST



New agents in clinical trials beat the treatment paradigm in GIST

Reimbursed



Phase 1 data

Phase III trials

Study name	Study drug	Planned size; Randomization	Eligibility	Study number
INVICTUS	DCC2618 vs Placebo	120; 2:1	≥4 th line GIST	NCT03353753
INTRIGUE	DCC2618 vs Sunitinib	358; 1:1	2 nd line GIST	NCT03673501
VOYAGER	AVAPRITINIB vs Regorafenib	460; 1:1	3 rd and 4 th line GIST	NCT03465722
CRENOGIST	CRENOLANIB vs Placebo	120; 2:1	D842V Mutated PDGFRA Gene	NCT02847429

Conclusions I

- ◆ New reimbursements
 - ◆ Olaratumab : STS, in combination with Doxorubicin (1st line)
 - ◆ Eribulin : liposarcoma, ≥ 2 d line

Conclusions II

◆ Promising molecules

- ◆ CPI in combination?
- ◆ CMB305 : NY-ESO-1+ STS / SS
- ◆ Tazemetostat : INI1- tumors, epithelioid sarcoma
- ◆ Pexidartinib : PVNS
- ◆ Nirogacestat : desmoid
- ◆ Larotrectinib : sarcoma with TRK fusion
- ◆ Nanoparticles in combination with RT : locally advanced STS
- ◆ Cabozantinib : bone sarcomas
- ◆ DCC-2618 : GIST
- ◆ BLU-285 : GIST

Conclusions II

◆ Promising molecules

- ◆ CPI in combination?
- ◆ CMB305 : NY-ESO-1+ STS / SS
- ◆ Tazemetostat : INI1- tumors, epithelioid sarcoma
- ◆ Pexidartinib : PVNS
- ◆ Nirogacestat : desmoid
- ◆ Larotrectinib : sarcoma with TRK fusion
- ◆ Nanoparticles in combination with RT : localized STS
- ◆ Cabozantinib : bone sarcomas
- ◆ DCC-2618 : GIST
- ◆ BLU-285 : GIST

