

Vemurafenib in patients (pts) harboring BRAF V600 mutation. Results of non-small cell lung cancer (NSCLC) cohort from the AcSé trial.

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PFS

Abstract #5138

AcSé Program : secured access program to innovative cancer drugs

Background

- When a marketed targeted therapy exists in a molecularly defined subgroup of patients
- When the same alteration is found in other tumor types

Risk of a wide off label use of the drug

Objectives

1/ Promote a secured access for all patients with an advanced refractory malignancy and no therapeutical alternative through an academic phase II clinical trial.

- One trial for each targeted treatment selected
- Withdrawal if high toxicity or no efficacy in a predefined number of patients with the same tumor type
- Efficacy signal force to inform pharmaceutical firms for drug development decision making

2/ Ensuring equity of access to innovation

- Provide nationwide molecular tumor diagnosis for all patients through INCa molecular genetic centers
- Whatever the healthcare institution status (public

laboratories located in **University Hospitals and Cancer Centers**

Regional organization

NEED

DRUG (S)

PROJECTS

SCREENING

 Cooperation between pathologists and biologists AcSé program

Accreditated

INCa

Molecular

(Routine

hospitals, private hospitals...) Perform high quality tests Hemopathies, solid tumors France organization of the 28 molecular centers for personalized medicine Partnerships between

AcSé program

Targeted Therapies

Research of specific

molecular alterations

of the drug(s) target

AcSé crizotinib AcSé vemurafenil

ONE DRUG PROJECT (FOCUSED ON A DRUG)

Immunotherapies

Research of a molecular alteration in

an identified cohort (biomarkers

potentially predictive of efficacy)

colorectal cancer

A. MARABELLE

C. MASSARD

NATIONAL SCREENING COORDINATED AND FUNDED BY INCA

Accrual

BRAF V600 screening activity* (At February 28, 2018)	Number of positive cases	Patients included (from October 1, 2014 to September 29, 2018)
2037	89	198**

*: except NSCLC, colorectal and melanoma, tests performed for diagnosis **: whose 118 NSCLC + 50 pts from molecular pangenomic programs or other circuits.

trial at

PHRC-K

MULTI-DRUGS PROJECT

(FOCUSED ON THE TARGETED POPULATION)

Extensive targeted therapies

(for Pediatrics population)

program / Extensive

molecular analysis

MAPPYACTS PROJECT

AstraZoreca Subb

B. GEOERGER

AcSé Vemurafenib

- Vemurafenib is registered as a monotherapy for the treatment of adult patients with BRAF V600 mutation unresectable or metastatic melanoma
 - Main objective

Background

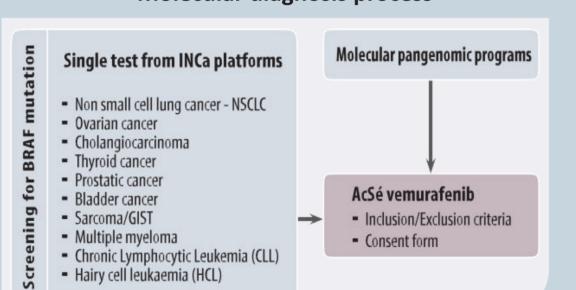
Identification of subsets of patients that may benefit from treatment

• Responses were observed in other tumour types

Population

• Patients ≥18 years with advanced disease harbouring BRAF genomic alterations (except colorectal cancer and V600 BRAF mutated melanoma) and not eligible for any other active trial targeting the same alteration.

Molecular diagnosis process



ı	BRAF V600 screening activity* (At February 28, 2018)	Number of positive cases	Patients included (from October 1, 2014 to September 29, 2018)	A regula are referr Vemurafer including
	2037	89	198**	and immu

1 NSCLC - BRAF G469V MUT

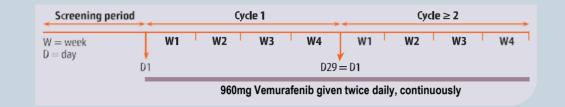
1 NSCLC - BRAF G596R MUT

3 NSCLC - BRAF K601E MUT

2 NSCLC - BRAF K601N MUT

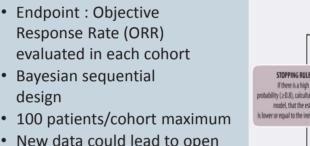
3 NSCLC - BRAF N581S MUT

Treatment scheme



- Disease response assessed every 8 weeks
- Safety assessed continuously
- Treatment pursed until progression, unacceptable toxicity, undercurrent conditions, or patient refusal For HCL and CLL, Vemurafenib is prescribed for 2 cycles and possibly for 2
- additional cycles if CR is not achieved. Treatment is stopped at day 112 max whatever the response.

Statistical design



 New data could lead to open additional cohorts

· Up to 200 investigating centres

L CARCINOMA OF MAXILLARY SINUS - BRAF G469E MUT

1 BLADDER CANCER - BRAF G469E MUT

1 PROSTATIC CANCER - BRAF L613S MUT

1 PROSTATIC CANCER - BRAF K601E MUT

1 SPLENIC LYMPHOMA - BRAF G600INSTAC MUT

1 BREAST CANCER - BRAF G466A MUT

Dermatological monitoring

llar dermatological monitoring has been set up. Indeed, all patients rred to a dermatologist prior to first intake, after 28 days of enib and then every 3 months. An initial dermatologic history, photo type, history of sun / UV exposure, previous skin cancers unosuppression is completed. Suspicious skin lesions are biopsied ed. Melanoma and squamous cell carcinoma lesions are submitted for central dermatopathology review.

Furthermore, specialists have been appointed for the management of BRAF inhibitors specific skin toxicities.

Inclusions per cohorts

4 GANGLIOGLIOMA - BRAF V600E MUT

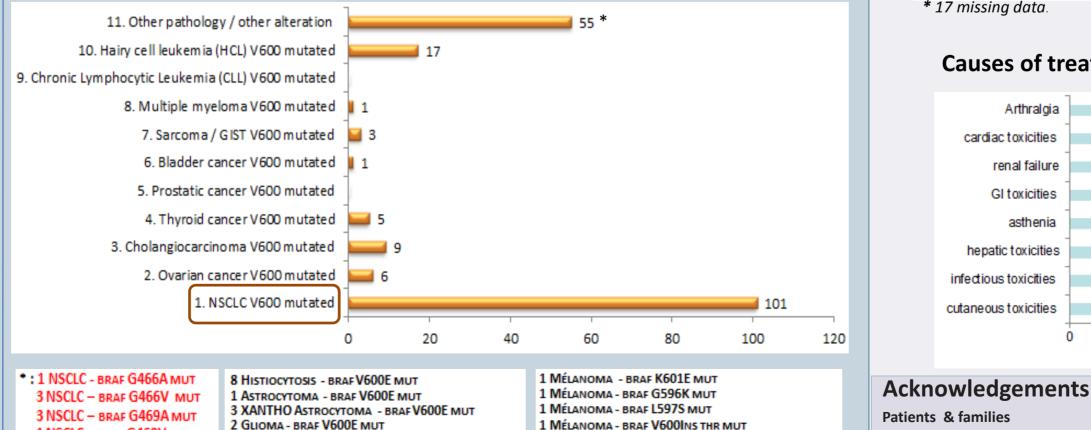
L NEPHROBLASTOMA - BRAF V600E MUT

CANCER OF APPENDIX - BRAF V600E MUT

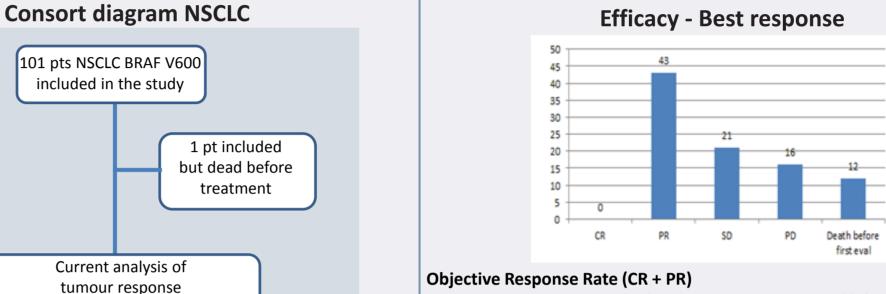
UNKNOWN PRIMARY CANCER - MUTATION BRAF V600E

6 GLIOBLASTOMA - BRAF V600E MUT

LYMPHOMA - BRAF V600E MUT



Focus on non-small cell lung cancers with BRAF V600 mutation



Phase 2 clinical trial: Secured Access to Vemurafenib for patients with tumours harbouring BRAF genomic alterations – PI: Jean-Yves BLAY / NCT02304809

and safety: 100 pts NSCLC BRAF V600

Patients characteristics

Causes of treatment cessation for toxicities

Number of patients

· financial support from INCa, the ARC Foundation, the Unicancer's partner for personalized

Correspondence to: mazieres.j@chu-toulouse.fr

Disease characteristic

Number of previous line of chemo

Female

Age (Years)

3 or more

Tobacco*

WHO PS

Smokers/ex-Smokers

* 17 missing data.

Arthralgia

renal failure

GI toxicities

hepatic toxicities

infectious toxicities

cutaneous toxicities

AcSé vemurafenib investigators teams

institutional support of ROCHE

Study support

Medicine research

cardiac toxicities

Median [range]

Frequency (%)

N= 100

51 (50.5%)

50 (49,5%)

68 [41;85]

80 (79,3%)

50 (49,5%)

24 (23,8%)

6 (6,0%)

58 (69%)

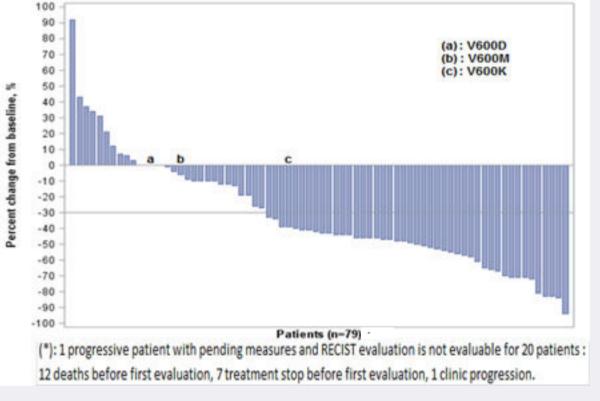
27 (27%)

54 (54%)

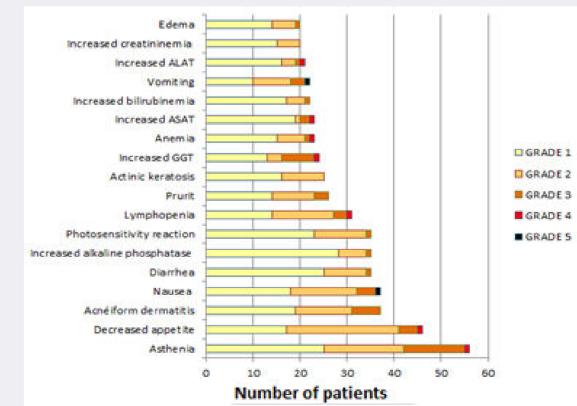
19 (19%)

- Mean Bayesian Estimated Success rate: 44.9% credibility 95%CI: [35.2;54.8]
- Prob ORR > efficacy bound (30%): 99.9%
- Median response duration: 6.4 months

Waterfall plot of best reduction in tumour measurement from baseline







- Vemurafenib provided reasonable response rate and extended PFS in pretreated NSCLC patients with BRAF **V600 mutations**
- Tolerance was manageable
- These results emphasize the need of integrating BRAF V600 in routine biomarkers screening.
- Vemurafenib has comparable efficacy to dabrafenib monotherapy even if the combination of dabrafenib and trametinib remains the standard of care.

Collaborative groups

- French thoracic oncology Intergroup (IFCT)
- French Cooperative Gynecological Cancer Research Group (ARCAGY Gineco)
- French genito-urinary cancer cooperative groups (GETUG/AFU)
- French Sarcoma Group (GSF-GETO) French Gastro Institutional Groups (UCGI)
- ARCAGY GINECO

 GETUG

 Windcarer

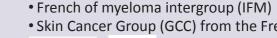
 Windcarer











French thyroid cancer network (TUTHYREF)

• French Innovative Leukemia Organization (FILO)



• Skin Cancer Group (GCC) from the French Society of Dermatology (SFD)





Median PFS: 5.2 months [3.8;6.9] Median OS: 9.3 months [6.8;14.9]

Conclusion