





# Immune-based Stratification and Evolutionary Biomarkers In Oral potentially malignant disorders

V1.3 of 28/05/2025

Coordinating Investigator: Pr. Pierre SAINTIGNY, MD, PhD

Sponsor: Centre Léon Bérard, Lyon, France

Coordinating Centre: DMT-DRCI / Centre Léon Bérard

Sponsor ID: ET23-414

Site Number: Participating site:

#### **GENERAL**





INTERCEPTOR



PREV-BIO21-008 ISEBIO

CA21140 – INTERCEPTOR

SIRIC LyriCAN+ INCa-DGOS-INSERM-ITMO cancer 18003



- Regulatory approvals: Ethic committee / MR-004 approval at CLB: 04/01/2024 (French regulations)
- Non-interventional, multicentric, retrospective cohort: RNIPH, MR-004 (French regulations)
- Sample size: 246 patients (minimum)
- Expected participating sites (20): Hospices Civiles de Lyon (France); APHP Hôpital Pitié-Salpêtrière (France); Institut Gustave Roussy (France); Institut Curie (France); Antwerp University Hospital (Belgium); Barzilai University Medical Center (Israel); Humanitas Cancer Center (Italy); Riga Stradiņš University (Latvia); Rijnstate hospital (The Netherlands); UMC University Medical Centers Cancer Center Amsterdam (The Netherlands); Haukeland University Hospital (Norway); Institute of Oral Pathology (Norway); Faculty of Medicine University of Porto (Portugal); University Complutense of Madrid (Spain); University of Murcia (Spain); Istanbul University (Turkey); University of Bristol (United-Kingdom); University of Liverpool (United-Kingdom); University of Sheffield School of Clinical Dentistry (United-Kingdom)
- Estimated total duration: 36 months
  - Inclusion period: 6 months

## **PARTICIPATING SITES**



- : Opened sites
- : Non-opened sites
- : Central review partners



### **BACKGROUND AND RATIONAL**

- Oral squamous cell carcinomas (OSCC):
  - 8<sup>th</sup> most common cancer occurrence worldwide
  - 50% of patients with locally advanced OSCC die from recurrent disease
  - Diagnosis at late stage
- Oral Potentially Malignant Disorders (OPMD):
  - Most frequent: oral leukoplakia, erythroplakia or erythroleukoplakia
  - Oral cancer risk (7,7 to 22,0 %)

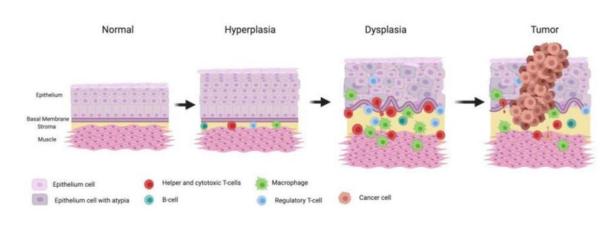


Figure 1. Schematic histological changes of the oral mucosa during malignant transformation.

Prospectively validated biomarker for oral cancer:

Loss of heterozygosity (LOH)



### **HYPOTHESIS**

- Gene expression profile and genetic alterations may improve oral cancer risk assessment in patients with oral leukoplakia, erythroplakia or erythroleukoplakia (E-/L)
- **ISEBIO** aims at testing this hypothesis in a multicentric retrospective pan-European cohort



## PRIMARY OBJECTIVE

PRIMARY OBJECTIVE	PRIMARY ENDPOINTS	
To improve stratification of patients with oral leukoplakia, erythroplakia or erythroleukoplakia (E-/L) by refining oral cancer-risk assessment	<ul> <li>3 strategies:</li> <li>Genomic analysis</li> <li>Transcriptomic analysis</li> <li>IHC- based markers on FFPE sections</li> </ul>	
	Biological biomarkers: Copy-number alterations (including loss of heterozygosity (LOH)), targeted point mutations, gene expression signature	



## **SECONDARY OBJECTIVES**

LONG TERM OBJECTIVES	LONG TERM ENDPOINTS
<ul> <li>To determine whether novel therapeutic targets can be leveraged for immuno- prevention strategies</li> </ul>	Maybe new data will be available
To reduce the incidence of OSCC	<ul> <li>No data will be provided from this study</li> </ul>

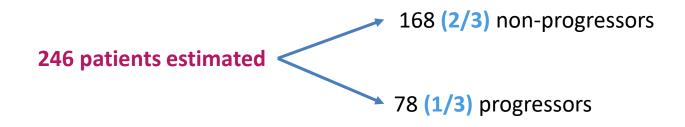


# PROGRESSOR/NON PROGRESSOR RATIO

#### Number of cases expected:

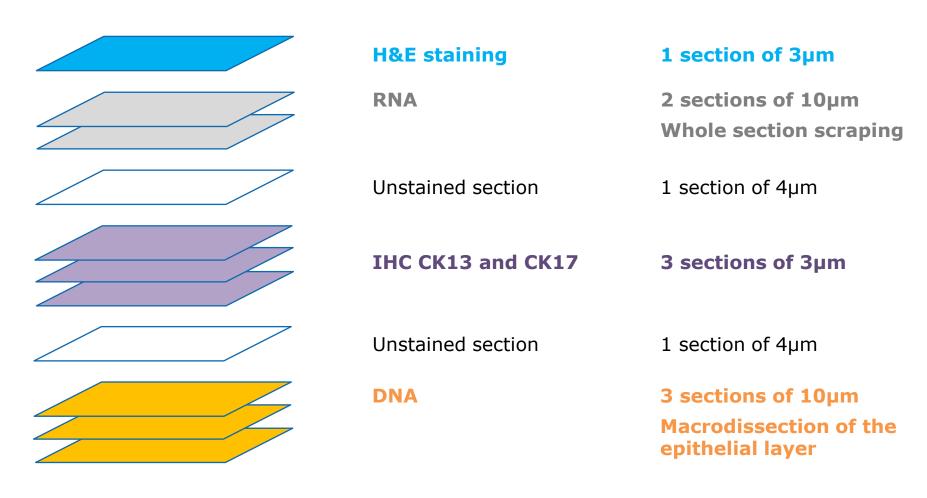


**BEWARE**: The ratio 2/3 and 1/3 is very important



Ex of total number of patients	Non-progressors (68%)	Progressors (32%)
5	4	1
10	7	3
30	20	10
50	34	16
100	68	32

## **SECTIONS' SLIDES SUMMARY**



- IHC: CK13 and CK17
- **DNA sequencing :** Agilent OneSeq Target Enrichment approach
  - whole-genome "backbone" (300kb, CNAs)
  - targeted sequencing panel (435kb panel based on the 62 HNSCC driver genes
- RNA sequencing: 3'Tag-Seq (Lexogen)

# OVERFLOW (1/2)



MR-004 authorization for French Centres Ethic approvals for other Centres

#### 1. SCREENING



<u>Documents</u>



#### 2. CONSENT / NON OPPOSITION

#### 3. SAMPLES COLLECTION



- FFPE sections
- Samples less than 20 years
- To be shipped to PGEB at Centre Léon Bérard (Appendix 1 & 2

   Laboratory Manual)
- Shipment assured by: FedEx
  - Please, <u>send by email the following information</u>: quantity of package, weight of each package, dimensions of each package
  - Then, a label with the necessary information will be sent by email and fixed on the package <u>before</u> the shipment

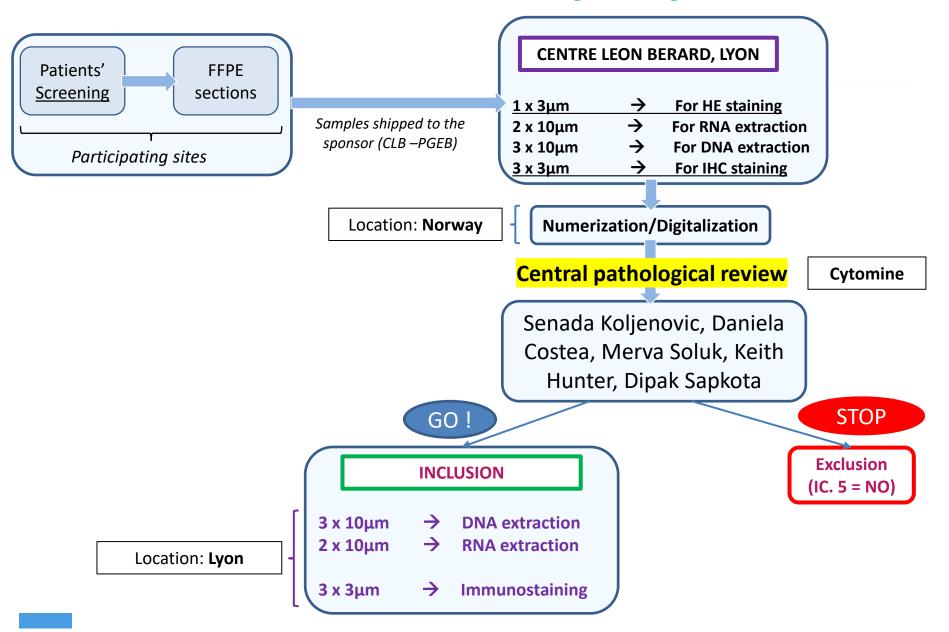
Patient Information
Sheet

Samples form (Appendix 1 – Laboratory Manual)

Shipment form (Appendix 2 – Laboratory Manual)



# OVERFLOW (2/2)



#### **INCLUSION CRITERIA**

- → Patients **must ALL meet** the following criteria:
- **11.** Male and female  $\geq$  18 years at time of non-opposition to participate to the study
- 12. Patient with documented non-opposition to participate to the study
- **I3.** Patient with clinically confirmed diagnosis of oral leukoplakia, erythroplakia or erythroleukoplakia (E-/L)
- **14.** Patient with availability of FFPE material, either a biopsy or surgically resected specimens, sampled less than 20 years
- **I5.** Patient with evaluable sample meeting the following quality/quantity control criteria: sample size surface area  $\geq 5 \text{mm}^2$  containing both stroma and epithelial cells

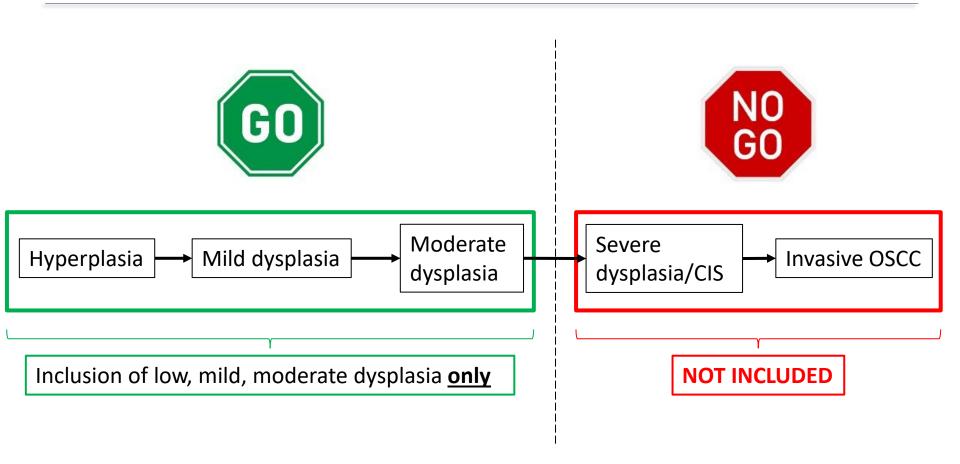


#### **EXCLUSION CRITERIA**

- → Patients **must NOT meet ANY** of the following criteria:
- **E1.** Patients who developed OSCC within 6 months after initial diagnosis of oral leukoplakia, erythroplakia or erythroleukoplakia (E-/L)
- **E2.** Patients with less than 2 years follow-up AND 2 years without previous Oral Cancer (OC) at the time of oral leukoplakia, erythroplakia or erythroleukoplakia (E-/L)

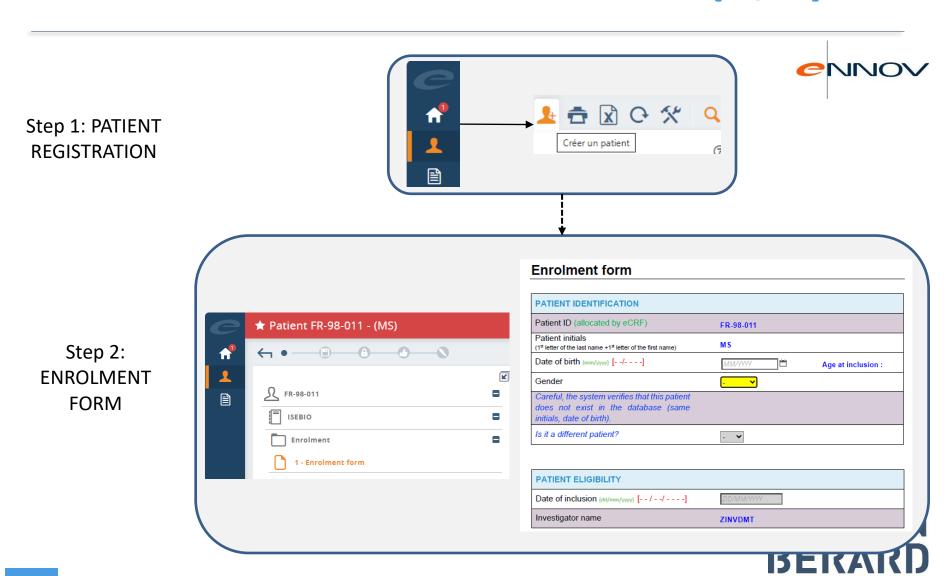


#### **INCLUSION & EXCLUSION CRITERIA**





## eCRF: DEMONSTRATION (1/3)



# eCRF: DEMONSTRATION (2/3)

Eligibility criteria K The wordings of the eligibility criteria listed below have been reduced compared to the protocol. Please refer to the latest approved protocol version at the time of ICF signature to confirm the patient's eligibility according to the full wordings of these criteria. INCLUSION CRITERIA Enrolment For this study, eligible patients must meet ALL of the following criteri 11. Male and female ≥ 18 years at time of non-opposition to participate to the study . **v** 1 - Enrolment form Step 3: ELIGIBILITY Patient with documented non-opposition to participate to the study. Patient with clinically confirmed diagnosis of oral leukoplakia, erythroplakia or 2 - Eligibility criteria erythroleukoplakia **CRITFRIA** Patient with availability of FFPE material, either a biopsy or surgically resected specimens, sampled less than 20 years + Baseline Patient with evaluable sample meeting the following quality/quantity control criteria: sample size surface area ≥ 5mm² containing both stroma and epithelial cells Follow-up: Head and neck events EXCLUSION CRITERIA Last follow-up E1. Patient who developed OSCC within 6 months after initial diagnosis of oral leukoplakia, erythroplakia or erythroleukoplakia Deviations E2. Patient with less than 2 years follow-up AND 2 years without previous OC at the time of oral leukoplakia, erythroplakia or erythroleukoplakia K FR-98-011 HISTOLOGY ISEBIO Histology diagnosis date (dd/mm/yyyy) [- -/- -/- --] Enrolment Histology sampling method Biopsy If other histology sampling method, please specify Baseline Step 4: OTHER Histology result according to local report Hyperplasia (most severe lesion) 3 - Baseline If histology result according to local report is dysplasia, please **PARTS** 4 - 1st Head and Neck Event If other histology result according to local report, Histology result based on the centralized review Follow-up: Head and neck events (most severe lesion) 5.01 - 2th Head and Neck Event If other histology result based on the centralized review, please \_ast follow-up 6 - Last Follow-up

+

Deviations

## eCRF: DEMONSTRATION (3/3)



#### Important tools:

To lock the pages



Dashboard



Avancement des rubriques





Aucune donnée à afficher

Queries

Notifications		
1	Commentaire	
0	Email	
0	Actualité	
0	Document	
0	Note	
0	Alerte	



#### INVESTIGATOR MASTER FILE

- Investigator Master File: HYBRID STRUCTURE
  - Common documents:
    - Last version available on ENNOV CLINICAL
    - ENNOV CLINICAL's User guide available
- Actualités

  Documentation de l'étude

  Rapports

  Mes documents

- Specific site documents:
  - Please, keep them on a paper master file



## **MONITORING PLAN**

- Online monitoring
- After the central pathological review



### **GOOD CLINICAL PRACTICE**

#### MAIN SPONSOR'S RESPONSIBILITIES

- To insure the suitability of resources involved in conducting the clinical study;
- To ensure that the clinical study is conducted in compliance with the current versions of the protocol and in accordance with the regulation in force;
- To adequately monitor the conduct of the clinical study in order to verify that the rights, safety and well-being of subjects are protected, that the reported data are reliable and robust, and that the conduct of the research is in compliance with the requirements of the regulation and laws in force;
- To declare the start and end of the trial and communicate a summary of the results to the appropriate Centre Léon Bérard MR004 Review Board within the requested time limits;
- To draw up a final report, to inform all investigators about the results and to communicate a summary of the results to the appropriate Centre Léon Bérard MR004 Review Board within requested time limits.

#### MAIN INVESTIGATOR'S RESPONSIBILITIES

- To demonstrate the suitability of the research site with the conduct of the study;
- To identify investigators to assist in the conduct of the research. Qualification of the investigators will be documented in a current curriculum vitae and other relevant documents;
- To provide to persons duly appointed by the Study data processor documentation and personal data strictly necessary to the study monitoring, quality control and auditing;
- To collect subject's written patient 's non-opposition in his medical record after having given her/him (orally and in writing) the required and necessary to his/her decisionmaking information; the investigator have to ensure that the patient has understood the information;
- To complete eCRF for each enrolled patient, to validate collected data in the eCRF and if necessary correct them following the procedures set up by the Study data processor to ensure traceability.

### DATA COLLECTION

eCRF: <a href="https://clb-lyon.ennov.com/CSOnline/">https://clb-lyon.ennov.com/CSOnline/</a>



- E-learning: <a href="https://elearning-clinical.ennov.com/chamilo/">https://elearning-clinical.ennov.com/chamilo/</a>
  - Followed by a <u>short test</u>
  - Send by email the certificate to the Project Manager
- eCRF User Guide available: V1.0 of 22/01/2024
  - Specific point: Password expires every 3 months
- Connexion information: Send by email
  - Nominative and <u>strictly</u> personal
- If any problems, please contact :
  - Project Manager DMT, Marine Benaissa
    - ■: marine.benaissa@lyon.unicancer.fr
  - Project coordinator/CRA, Al Mostafa Mouhammad
    - ■: mouhammad.almostafa@lyon.unicancer.fr



#### CONTACTS

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- Project coordinator/CRA, Al Mostafa Mouhammad
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#### **DOCUMENTS VERSION**

- Protocol: V1.0 of 12/12/2023
- **Synopsis**: V1.0 of 12/12/2023
- <u>Laboratory Manual</u>: V1.0 of 16/01/2024
- Inclusion eCRF platform:
  - eCRF: <a href="https://clb-lyon.ennov.com/CSOnline/">https://clb-lyon.ennov.com/CSOnline/</a>
  - E-learning: <a href="https://elearning-clinical.ennov.com/chamilo/">https://elearning-clinical.ennov.com/chamilo/</a>
  - ENNOV CLINICAL User Guide: V1.0 of 22/01/2024



# THANKS FOR YOUR ATTENTION



