



CTC.PT CLINICAL TERMINOLOGIES
CENTRE IN PORTUGAL

A life in each word



SPMS
EPE
Serviços Partilhados do Ministério da Saúde



SNOMED CT Expo 2015, October 29th-30th, Uruguay

The Portuguese Malignant Neoplasms Reference Set Methodological Approach and Early Findings

Licínio Kustra Mano, Anabela Santos
October 29th, 2015





Portuguese Ministry of Health Shared Services (SPMS)

Semantic Interoperability and International Projects

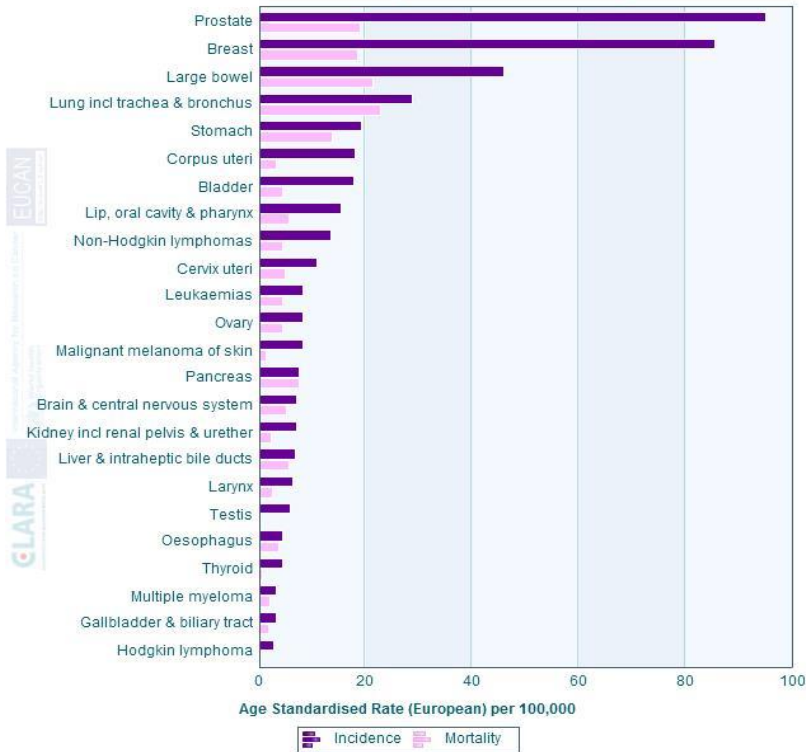


OBJECTIVE

Methodological approach used to create the **Portuguese Malignant Neoplasm Catalogue (CPNM)**

MALIGNANT NEOPLASMS

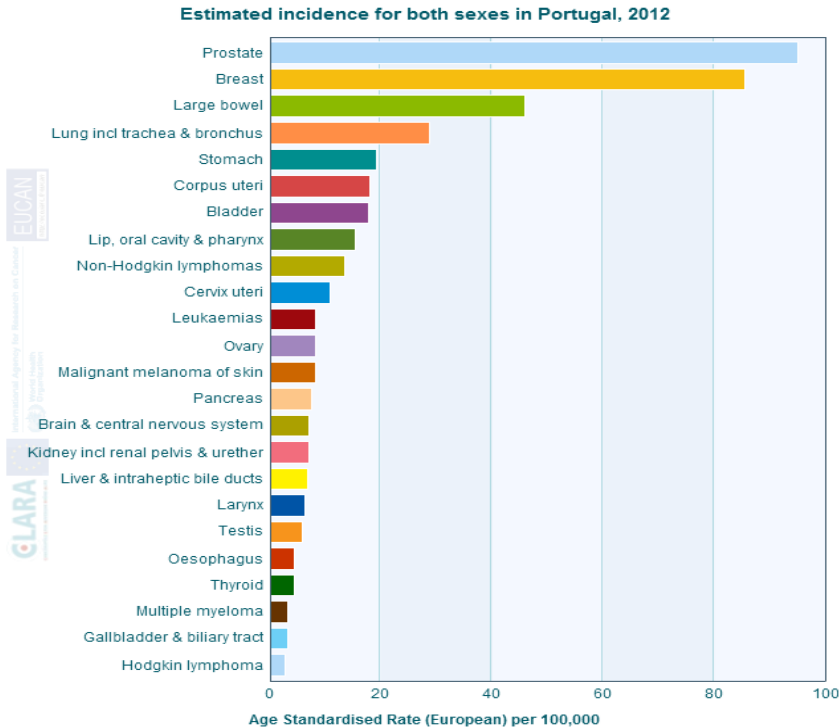
Estimated incidence and mortality for both sexes in Portugal, 2012



EUCAN
 European Cancer Statistics
 CLARA
 Cancer Registry of the Azores and Madeira

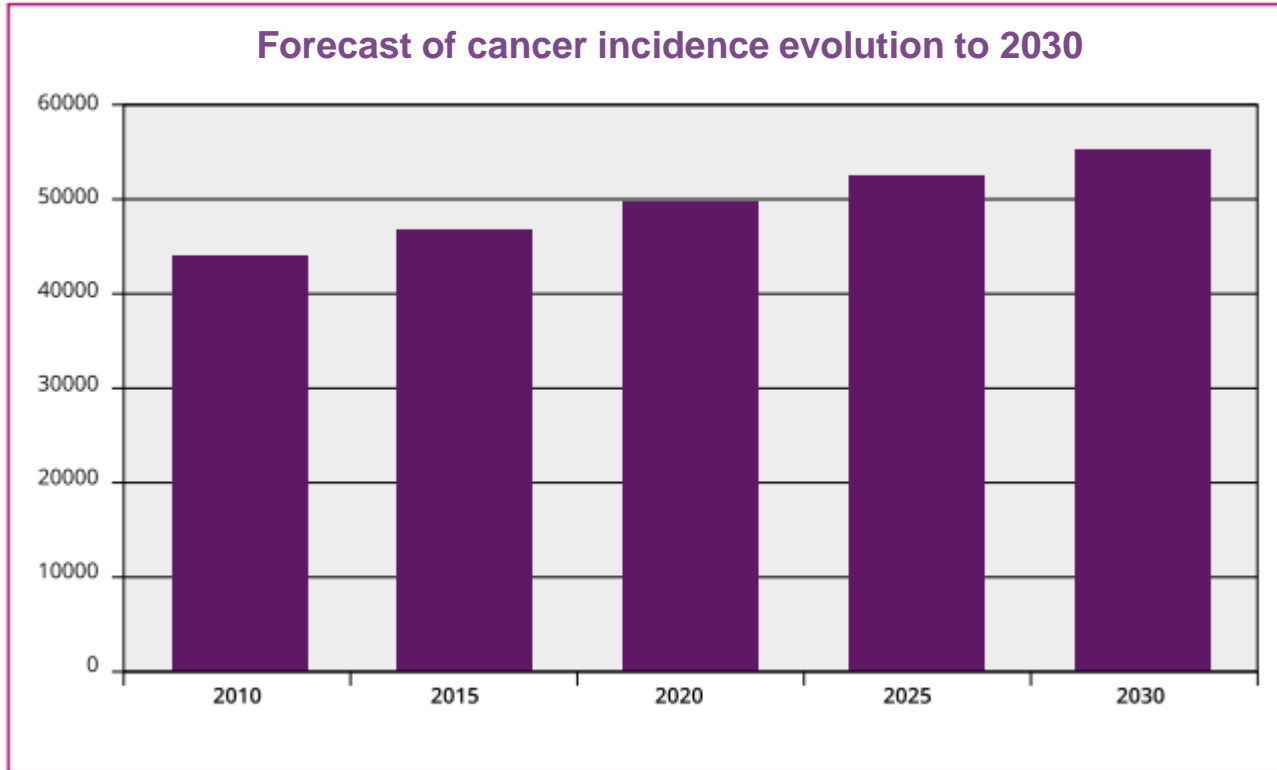


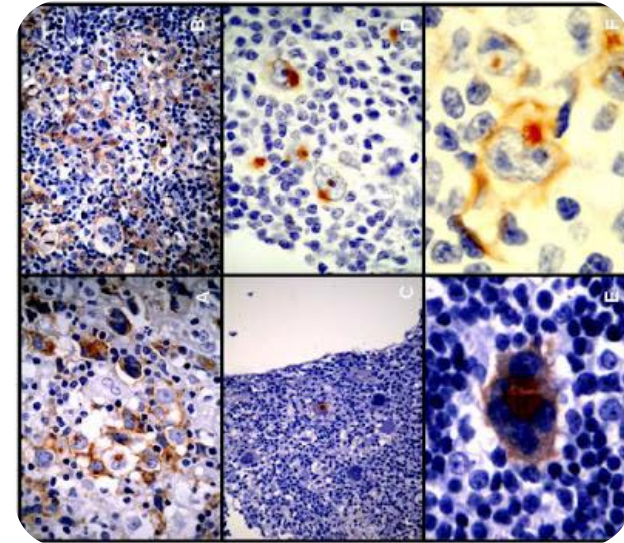
MALIGNANT NEOPLASMS



EUCAN
European Cancer
Registry
CLARA
International Agency for
Statistics on Cancer

PORTUGAL CURRENT INSIGHT





MALIGNANT NEOPLASMS DATA EXCHANGE



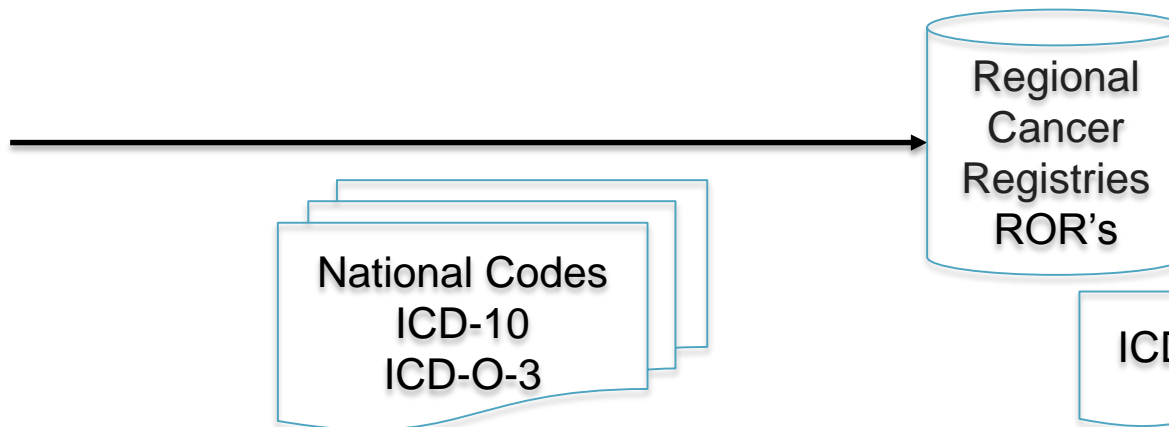
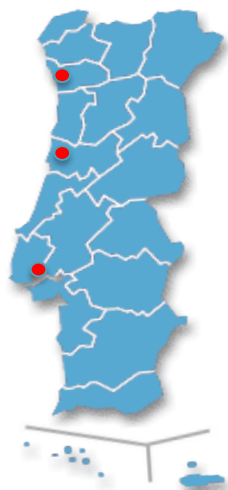
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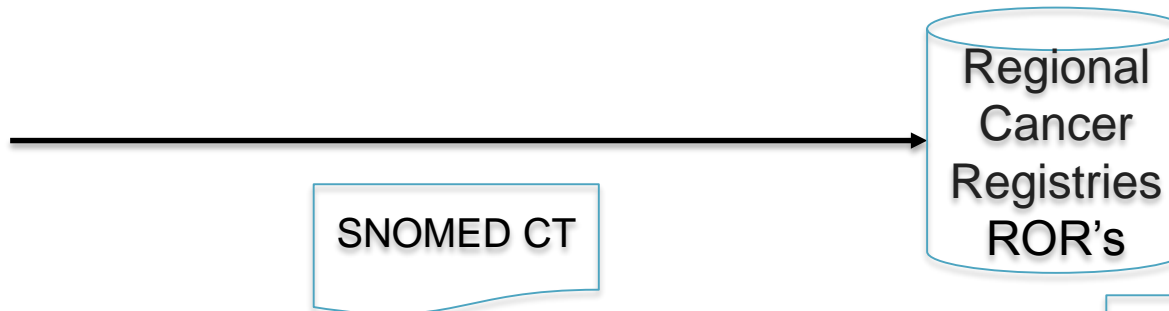
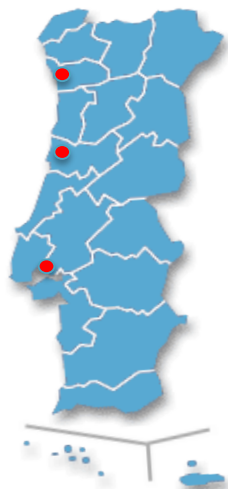
AS IS

Pathology and Oncology Departments

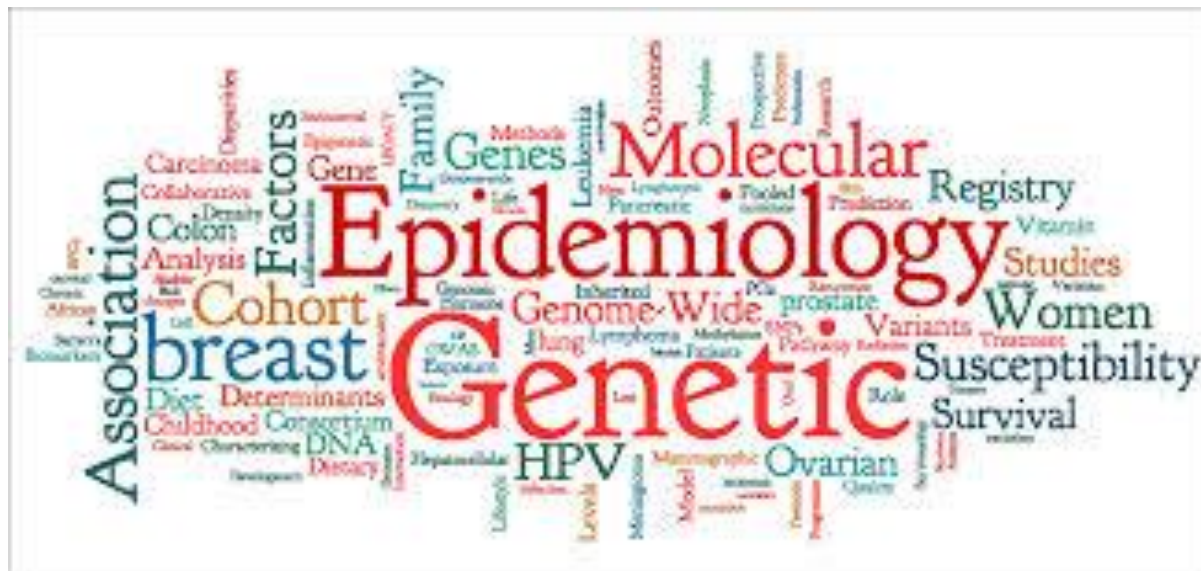


TO BE

Pathology and Oncology Departments



MALIGNANT NEOPLASMS



PORTUGAL CURRENT STATUS

Pathology and Oncology departments use diverse versions of different classifications systems



Valuable data can be lost
The quality of care is diminished
Patient's safety is compromised

PORTUGAL CURRENT INSIGHT


Several major **stakeholders** joined forces in order to **overcome the problem:**

Harmonize cancer registry in Portugal
Create a diagnosis catalogue that can be used by Oncology and Pathology



SNOMED CT

BENEFITS



Best treatment approaches

Best treatment times

Data analysis and
transformation

Clinica data sharing

Clinical errors

Coding errors

MALIGNANT NEOPLASMS

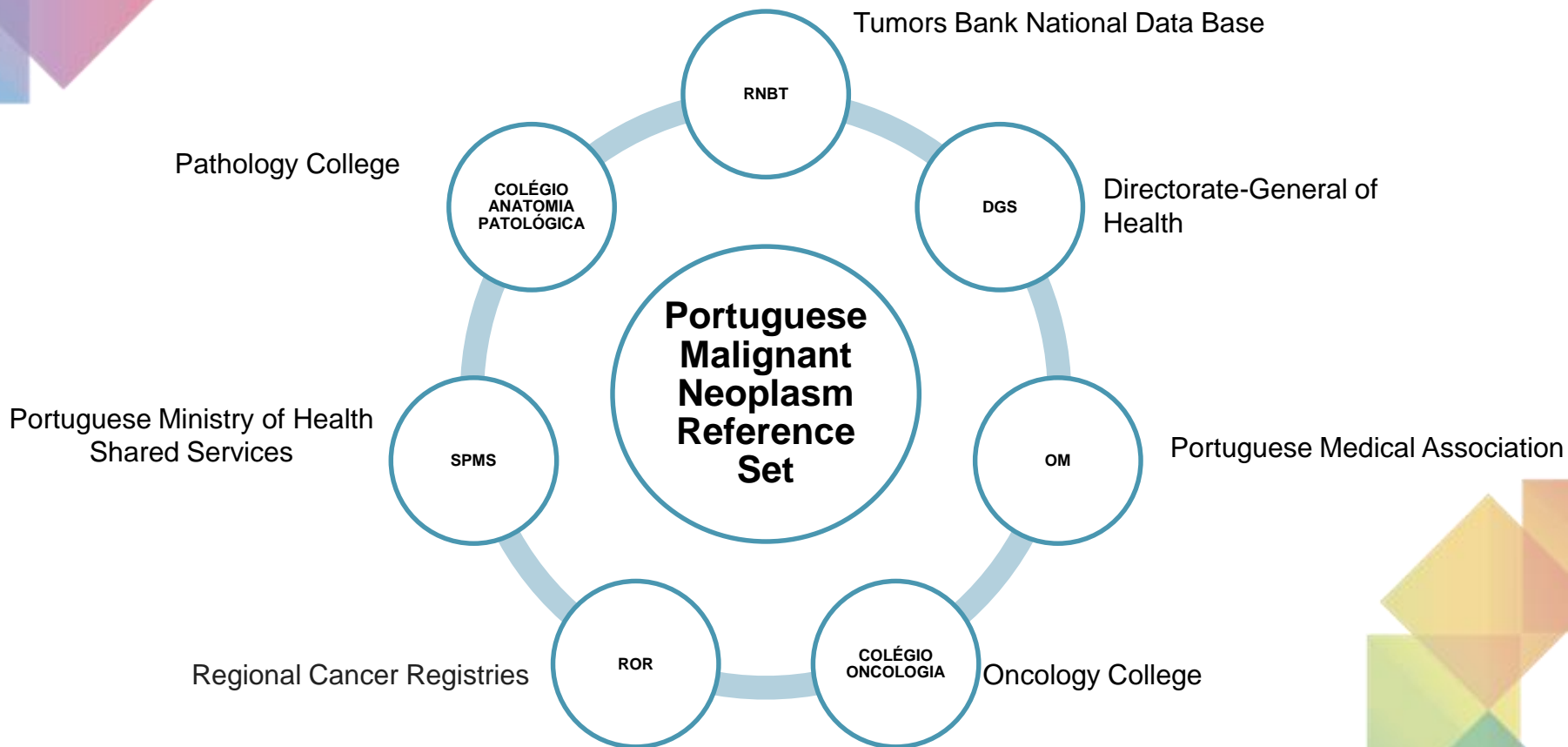




**ARE YOU UP FOR
THE CHALLENGE?**



STAKEHOLDERS



METHODOLOGY

The Clinical Terminologies Centre in Portugal - **CTC.PT** is:

- **National Release Centre**

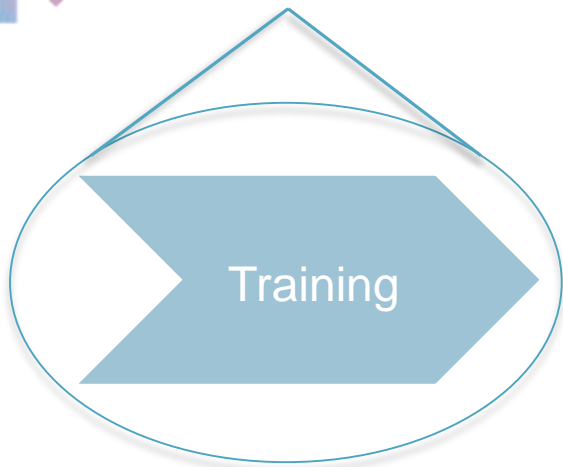
Responsible entity for:

- Building a **project** that can match SNOMED CT quality standards

METHODOLOGY



METHODOLOGY



- Provide **fundamental knowledge on SCT**
- Involving the building of a **Reference Set** for cancer, adjusted to PT reality
- **Training of 45 clinicians** in SNOMED CT translation

PORTUGUESE MALIGNANT NEOPLASMS REFERENCE SET

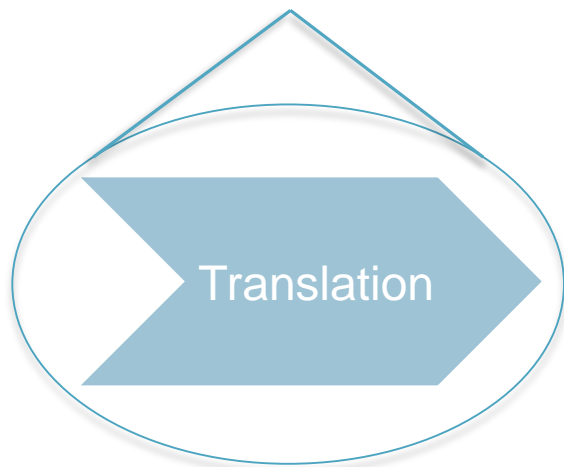
- Mapping between SCT and ICD-0-3
- 25.000-30000 terms
- Morphology (M) and Topography (T)
- Picking up the terms adjusted to PT
- Translation to Portuguese



PORTUGUESE MALIGNANT NEOPLASMS REFERENCE SET

- Translation is based in concepts
 - Preferred Term
 - Descriptions (M)
- Adding synonyms

METHODOLOGY



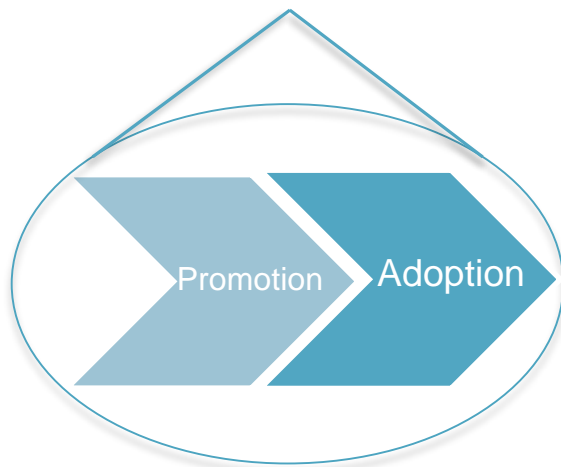
Translation to Portuguese:

- **Translation of 5000 terms** of the initial reference set (22000 concepts)

G21		fx		
A	B	C		D
1	ICD-O	SCT conceptid	SCT Term	
2	8000/0	3898006	Benign neoplasm	
3	8000/0	3898006	Benign neoplasm, site unspecified	
4	8000/0	3898006	Benign tumor morphology	
5	8000/0	3898006	Benign tumour morphology	

B19588		fx		LEUCEMIA NEUTROFILICA CRONICA	
	A	B			
20283	M36440	ARTEFACTUM EDEMA			S
20284	M36460	LYMPHATIC EDEMA			S
20285	M96553	LINFOMA DE HODGKIN DEPLECCAO LINFOCITARIA RETICULAR			S
20286	M96573	LINFOMA DE HODGKIN/ RICO EM LINFOCITOS			S
20287	M96583	HODGKIN'S DISEASE, LYMPHOCYTIC PREDOMINANCE, DIFFUSE			S
20288	M96593	LINFOMA DE HODGKIN PREDOMINIO LINFOCITICO NODULAR			S
20289	M96603	DOENÇA DE HODGKIN, SOE			S
20290	M96613	GRANULOMA DE HODGKIN			S
20291	M96623	SARCOMA DE HODGKIN			S
20292	M96633	LINFOMA DE HODGKIN ESCLEROSE NODULAR SOE			S
20293	M96643	LINFOMA DE HODGKIN ESCLEROSE NODULAR FASE CELULAR			S
20294	M96653	LINFOMA DE HODGKIN ESCLEROSE NODULAR DE GRAU 1			S
20295	M96663	DOENÇA DE HODGKIN, ESCLEROSE NODULAR E CELULARIDADE MISTA			S
20296	M96673	LINFOMA DE HODGKIN ESCLEROSE NODULAR DE GRAU 2			S
20297	M96703	LINFOMA MALIGNO PEQUENOS-B LINFOCITOS SOE			S
20298	M96713	LINFOMA MALIGNO LINFOPLASMOCITICO			S
20299	M96723	MALIGNANT LYMPHOMA, SMALL CLEAVED CELL, DIFFUSE			S
20300	M96733	LINFOMA DE CELULAS DO MANTO			S
20301	M96743	LINFOMA MALIGNO, CENTROCITICO			S

METHODOLOGY



- **Preparation of clinical guidelines**

PROJECT CURRENT INSIGHT



**Depuration of 22000
SNOMED CT concepts of the
reference set**

**Towards a goal of 5000
without losing meaningful
granularity**

PROJECT CURRENT INSIGHT



Constraints

Relevant findings
regarding SNOMED CT
concepts are being
discovered

Identification of **outdated**
classification systems



THE NEXT
STEP



Portuguese Benign Neoplasm Reference Set



THANKS FOR YOUR ATTENTION



REFERENCES

1. <http://www.ctcpt.net>
2. <http://eco.iarc.fr/>



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<http://ctcpt.net/>

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Leading healthcare
terminology worldwide

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