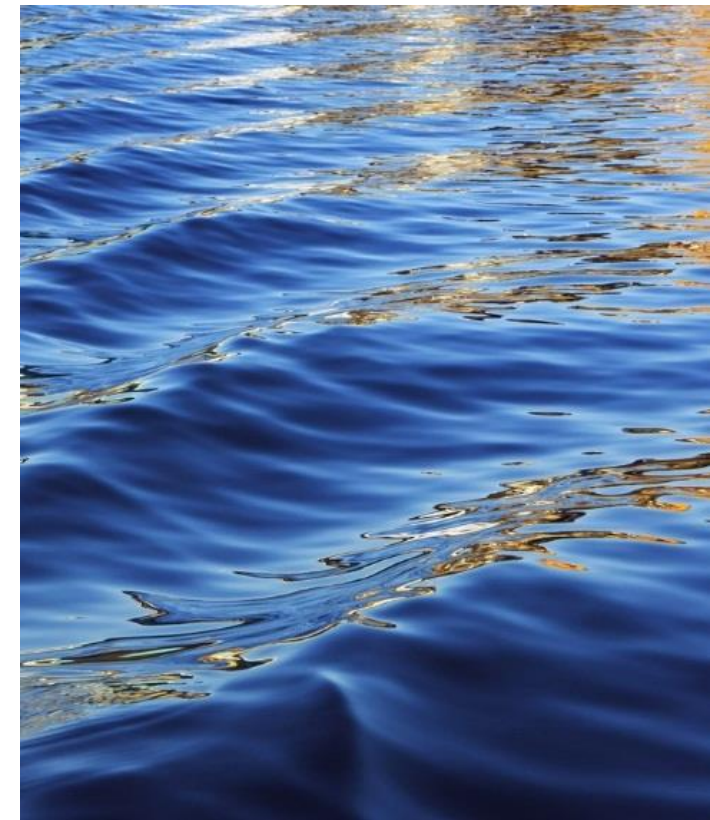




Hidrotherapy and Climatology Teaching in Portugal



2019
44 World
Congress
of ISMH
WIELICZKA



Isabel Santos

Pedro Cantista

13 – 16 June 2019

HISTORY

***Law decree n.5787-F, of May 10, 1919:** authorized the Faculties of Medicine to create courses of Hydrology and Climatology*

***1919** - The Institute of Hydrology of Lisbon was created and regulated the following year, and was intended to teach specialization courses for physicians in hydrological and climacteric clinics. The training should cover subjects related to mineral waters, climates and their related therapeutic agents. The course lasted for one year. This Institute was dependent on the Faculty of Medicine of Lisbon*

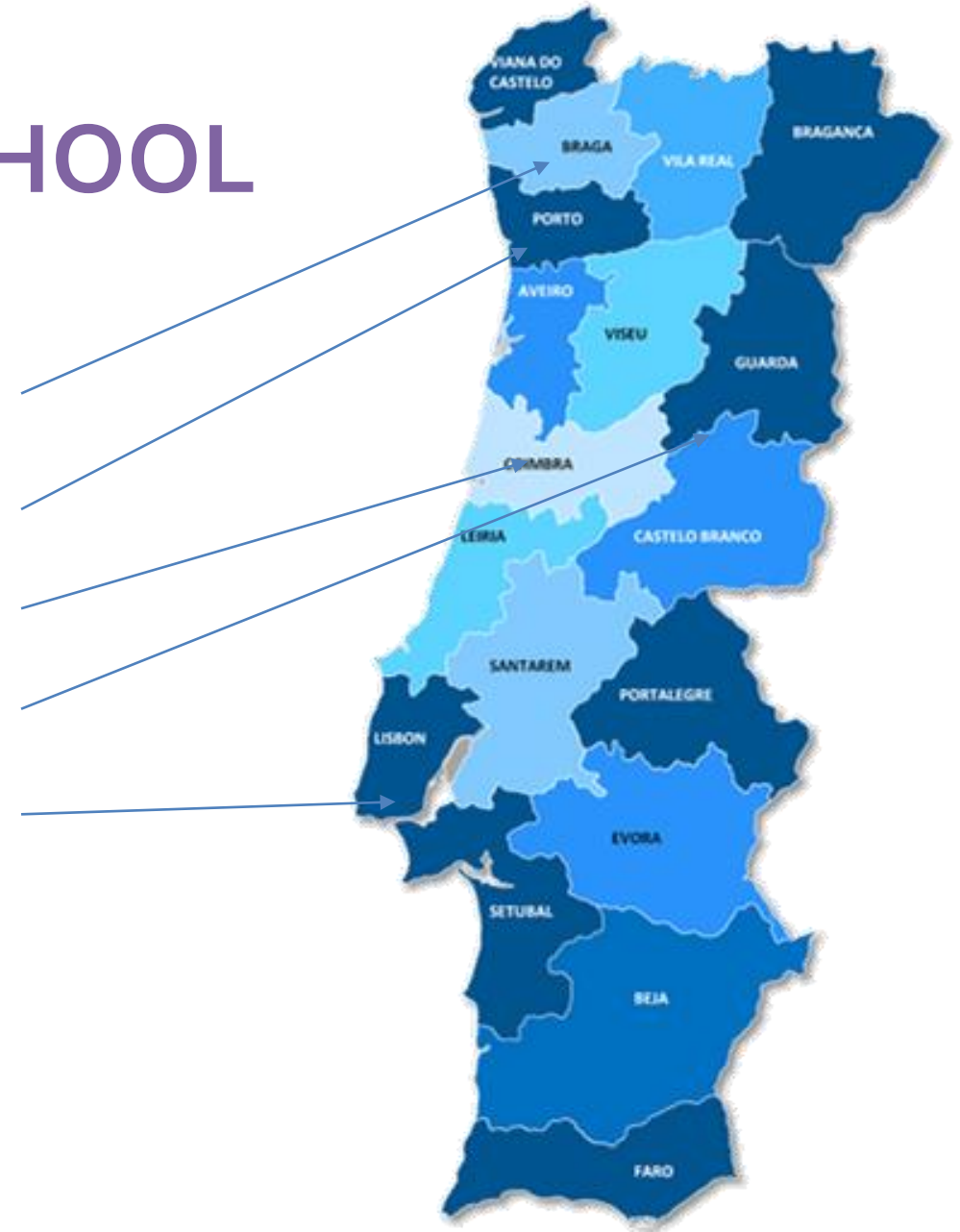
***1930** - Faculties of Medicine of Porto and Coimbra, have finally created identic Institutes of Climatology and Hydrology .*

Carlos Fontes

PRESENT - MEDICAL SCHOOL

FACULTIES OF MEDICINE

- Braga - 1
- Porto - 2
- Coimbra - 1
- Covilhã - 1
- Lisbon - 2



PRESENT

FACULTY

- Porto



ICBAS – Abel Salazar Institute of Biomedical Sciences



FMUP – Faculty of Medicine of Porto University

CURRICULUM UNIT – Hydrology and Climatology

- Pre-Graduate University Studies (3 ECTS)

- Continuing Training Course (24 ECTS)

PRESENT

FACULTY

- Coimbra

CURRICULUM UNIT – Hydrology and Climatology

- Suspended since 2012...



FMUC – Faculty of Medicine of Coimbra University

PRESENT

FACULTY

- Lisbon



FMUL – Faculty of Medicine of Lisbon University

CURRICULUM UNIT – Hydrology and Climatology

- Suspended since 2000...

PRESENT

FACULTY

- Covilhã

UBI – University Beira Interior



CURRICULUM UNIT – Hydrology and Climatology

- Post Graduate University Studies (60 ECTS)
 - *Training Center Interaction UBI Business (CFIUTE), in partnership with the Spa Association of Portugal (ATP)*

HYDROLOGY and CLIMATOLOGY COURSE

Post Graduate University Studies

One year

General Curricular Units

- General hydrology
- Hydrobalneologic therapy
- Physical and Rehabilitation Medicine
- Climatology
- Chemistry
- Geology
- Public health

MEDICAL CERTIFICATION

Titles in Portugal

- ❑ Speciality : Family Medicine, Rheumatology, Internal Medicine, Physical and Rehabilitation Medicine, etc.
- ❑ Competence : *Medical Hydrology*, Medical Acupuncture, Emergency Medicine, etc

The terms for admission to the Competence recognized by Health Ministry :

- Post-graduate course in hydrology
- Internship in one or more thermal establishments (24 months, 20h/week) as assistant doctor
- Internship report confirmed by medical advisor
- Design of a clinical or experimental research project to defend, in a period of 6 months, after completing the internship.

PRESENT – HIGHER EDUCATION OF POLYTECHNICAL HEALTH

- Public school

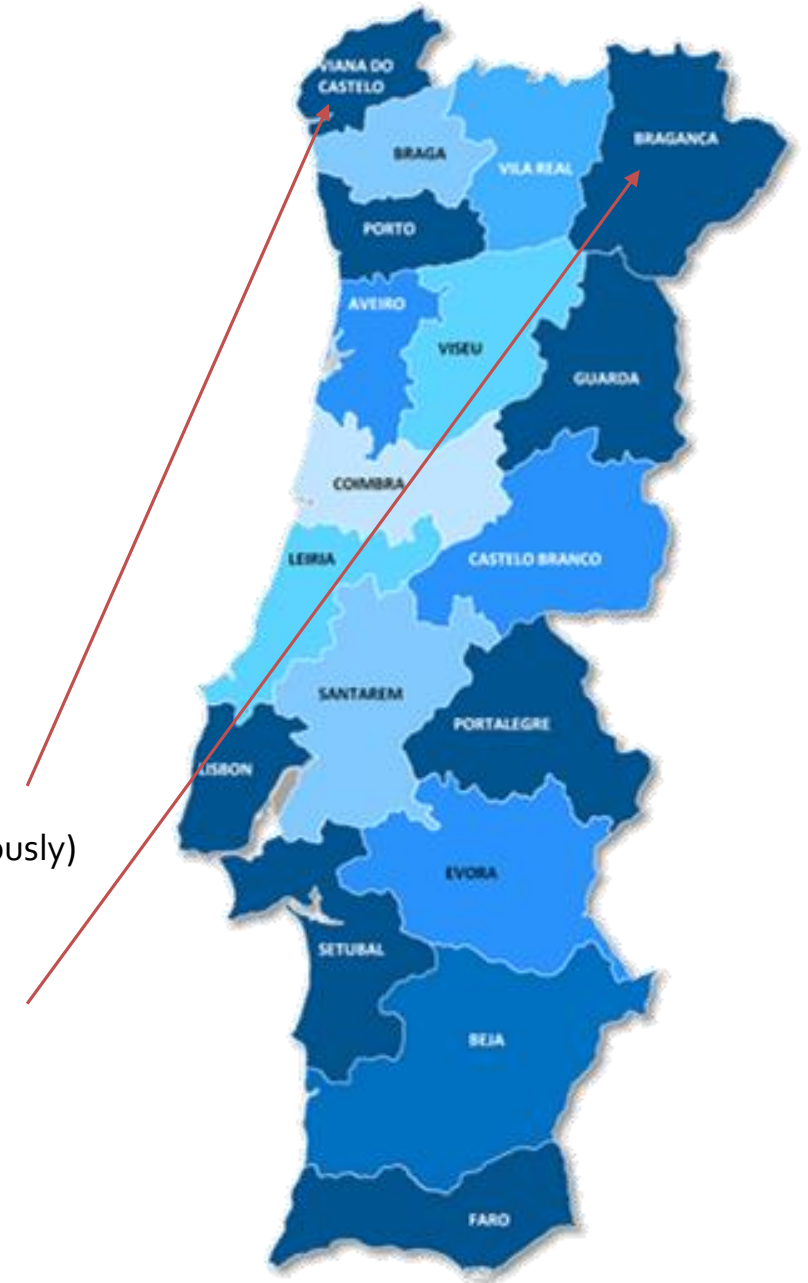
- 35 Courses, 20 Institutions and organizational units of education
- Only **2** about Thermal and Well-Being Formation

1. Polytechnic Institute of Viana do Castelo

Location: Viana do Castelo | 30 new admissions per year | Maximum of 70 students simultaneously)

2. Polytechnic Institute of Bragança

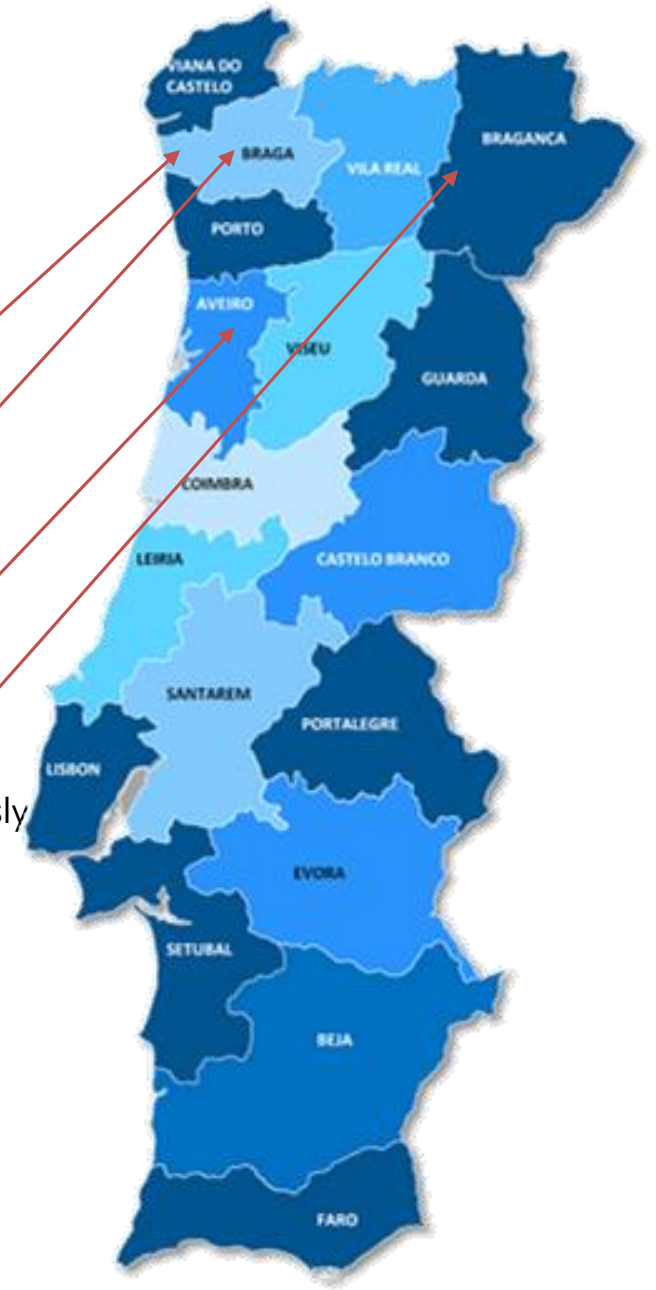
Location: Chaves | 25 new admissions per year | Maximum of 50 students simultaneously



PRESENT – HIGHER EDUCATION OF POLYTECHNICAL HEALTH

- Private school
- 45 Courses, 24 Institutions and organizational units of education
Only 4 about Thermal and Well-Being

1. CESPU: Polytechnic Health Institute of North /Health School of Vale do Ave
Location: Vila Nova de Famalicão 20 new admissions per year | Maximum of 40 students simultaneously
2. ISAVE - Superior Health Institute
Location: Póvoa de Lanhoso | 20 new admissions per year | Maximum of 40 students simultaneously
3. Higher School of North Health of the Portuguese Red Cross
Location: Oliveira de Azeméis | 30 new admissions per year | Maximum of 70 students simultaneously
4. Higher School of Nursing Dr. José Timóteo Montalvão Machado
Location: Chaves | 25 new admissions per year | Maximum of 50 students simultaneously



CONCLUSION

- 2 medical schools - Porto and Beira Interior (*physicians*) - Medical competence, recognized by Health Ministry
- 6 health polytechnic schools (*paramedicals*)
 - Different realities :
 - Curricular Units
 - Asymmetric distribution of educational establishments

FUTURE - PROSPECTIVE

➤ INOVA - Instituto de Inovação Tecnológica dos Açores (Institute of Technological Innovation of the Azores)

DESIGNATION OF THE PROJECT: *i-THERMAL - Innovation in Thermalism & Thermal Tourism*

INOVA - technological infrastructure whose mission is to contribute to the strengthening of **productivity** and **competitiveness** of the regional business; is involved in the field of **Training**, as a majority associate of the School of New Technologies of the Azores - **ENTA**, whose mission is to promote strengthening and adapting the **qualifications** and **competencies** of the *human resources* of the Region in response to the needs of the *business community*

- Reopening of Institutes of Hydrology suspended
- Opening of new training courses on continent and islands
- Improvement and national standardization of pedagogical contents
- Call for internationalization of teaching level and then recognition of the same



FORMATION

Prevention

Treatment

Rehabilitation



*in natural
environmental
sources*



QUALITY

Thank you