

**Teaching Medicine and
Teaching Science: Is there a
difference?
From MD to PhD
(Clinical Researcher)**

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Disclosures

- I have no disclosures

But I have a WARNING:

This talk is largely my personal view of myself and of the world rather than a scientific perspective

Plan of the talk

- **Me, Myself and I**
- **Portuguese Clinical Research- Medical Oncology**
 - **Elements for Success**

Me, Myself and I

Unde veni



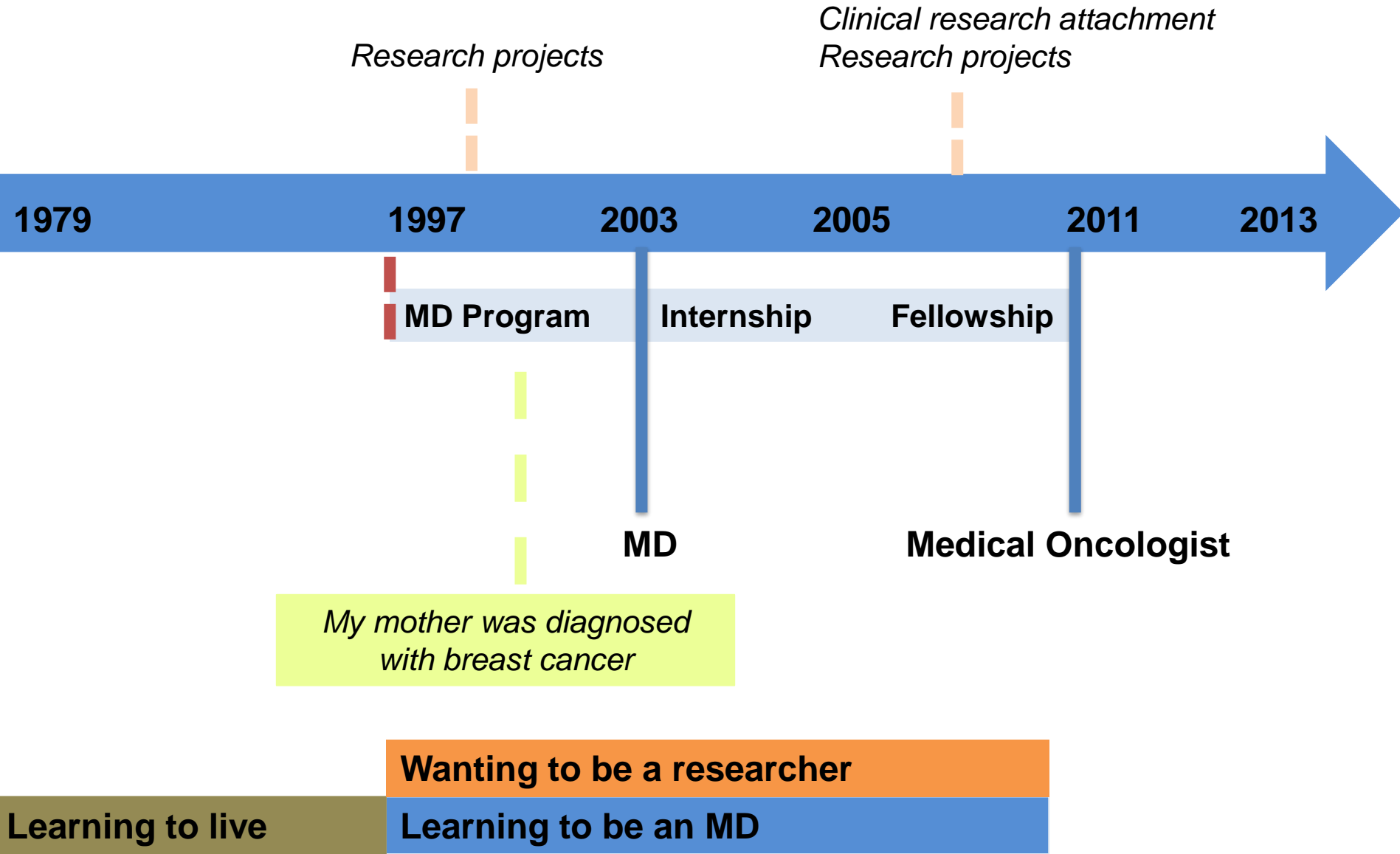
1979

1997

MD pathway vs. researcher ?

- **To apply knowledge- MD**
- **To advance knowledge- Researcher**

Me, Myself and I Unde veni



Me, Myself and I

Unde veni

Research project

*Clinical research attachment
Research projects*

1979

1997

2003

2005

2011

2013

MD Program

Internship

Fellowship

MD

Medical Oncologist- apply
knowledge

What about the advance
knowledge?

How long does and what is needed to be an independent researcher?

1. 14 years rule again??

2. Critical Elements

- Define Approach**
- Training Programs**
- Material/Research Lab**
- Infrastructure Support**
- Financial Support**
- The Art of collaboration**

Biomedical Research

	Population-Oriented	Patient-Oriented	Bench-Oriented
Approach	Outcomes research Clinical Epidemiology	Clinical Trials Clinical Pharmacology Human Pathophysiology Genetics	Animal Models Cellular and Molecular Biology
Training	Epidemiology, Biostatistics	Biostatistics Clinical Trials Pharmacology Genetics	Cellular and Molecular Biology
Material	Cancer Registry	Individuals	Animal and cells
Infracstrutures	Computer facility	Clinical Trials Center Clinical Research Center	Laboratory

My research

Clinical heterogeneity of HER2-positive breast cancer (e.g. patient with a T1aN0 HR+HER2+ what to do? What is the activity of dual anti-HER2 targeted therapy in metastatic breast cancer beyond trastuzumab progression)

HARVARD MEDICAL SCHOOL
- PORTUGAL PROGRAM
IN TRANSLATIONAL RESEARCH AND INFORMATION



	Population-Oriented	Patient-Oriented
Approach	Outcomes research Clinical Epidemiology	Clinical Trials
Training	Scholars of Clinical Science	
Infrastructures	Harvard School of Public Health and NCCN statistical core	Breast Oncology Center Dana Farber Cancer Institute
Material	Databases- SEER- Medicare, NCCN database	Breast Cancer Patients

Me, Myself and I Unde veni

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MD Program

Internship

Fellowship

MSc program

PhD

MD

Medical Oncologist

MSc

Wanting to be a researcher

Learning to be a
researcher

Learning to live

Learning to be an MD

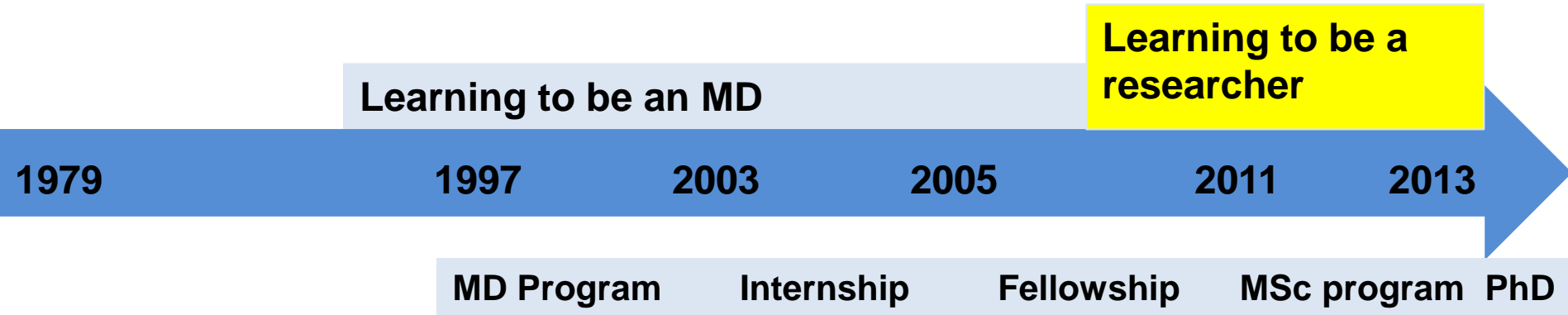
Biomedical Research in Portugal for me

	Population-Oriented	Patient-Oriented
Approach	Outcomes research Clinical Epidemiology	Clinical Trials
Training	Individual courses Master and PhD programs e.g. Master clinical research Northeastern University –Boston with Nova University of Lisbon, Program de Formacao Medica Avancada 2-year clinical research development program HMS-Portugal Career development grants HMS-Portugal	
Infrastructures	CAML- It has to work	CAML- it has to work
Material	Cancer Registry (fragmented)- Need clinical validation -Ongoing projects to validate population based data -Ongoing project to build a prospective cohort study focused on breast cancer	We have patients, we are not very good in recruit patients for trials

Biomedical Research in Portugal for me

- **Need protected time (Financial support)-
Switch of the paradigm: Professional Clinical
Research**
- **The Art of Collaboration**

Me, Myself and I



What is similar between the two learning processes?

Formal education

Mentorship

10.000 hours of work (work, work, work)

Focus, Focus, Focus

Like, Like, Like

Manage

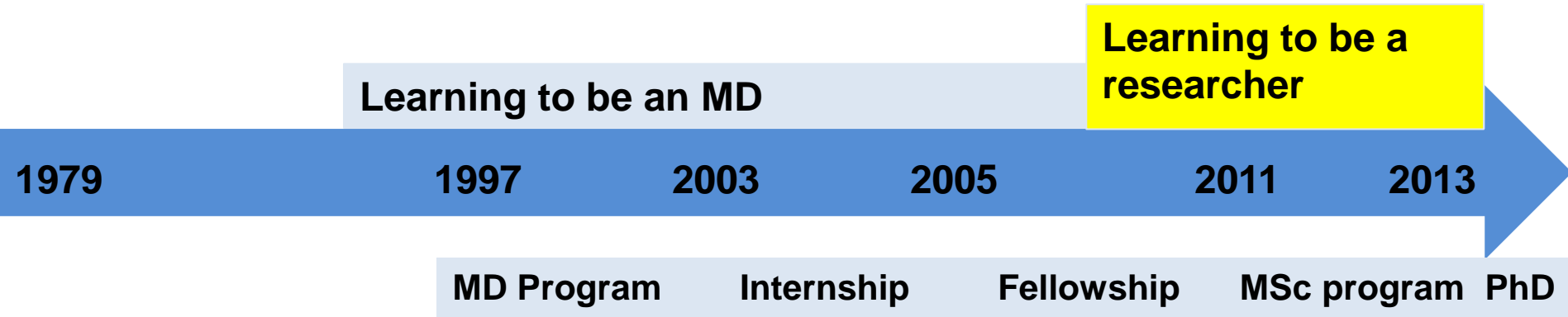
Organize

Imagine

Share

Everything is Focused on the PATIENT

Me, Myself and I



What is different between the two learning processes?

All the rest is different
Different Skills
Different Material
Different infrastructure

Biomedical Research in Portugal and me

- **My hope is that both can growth together**

The key for a successful learning

Outstanding mentors



The key for a successful learning

Outstanding friends



The key for a successful learning

The best family



**And in my case the
best mommy**

