

Teaching Biomedical Research Ethics

Antoni Trilla

Hospital Clinic – University of Barcelona

Department of Public Health

Institutional Review Board (IRB) Member

Grau en Medicina:

3r: Semiologia General. Ètica Mèdica

5e: Medicina Preventiva i Salut Pública

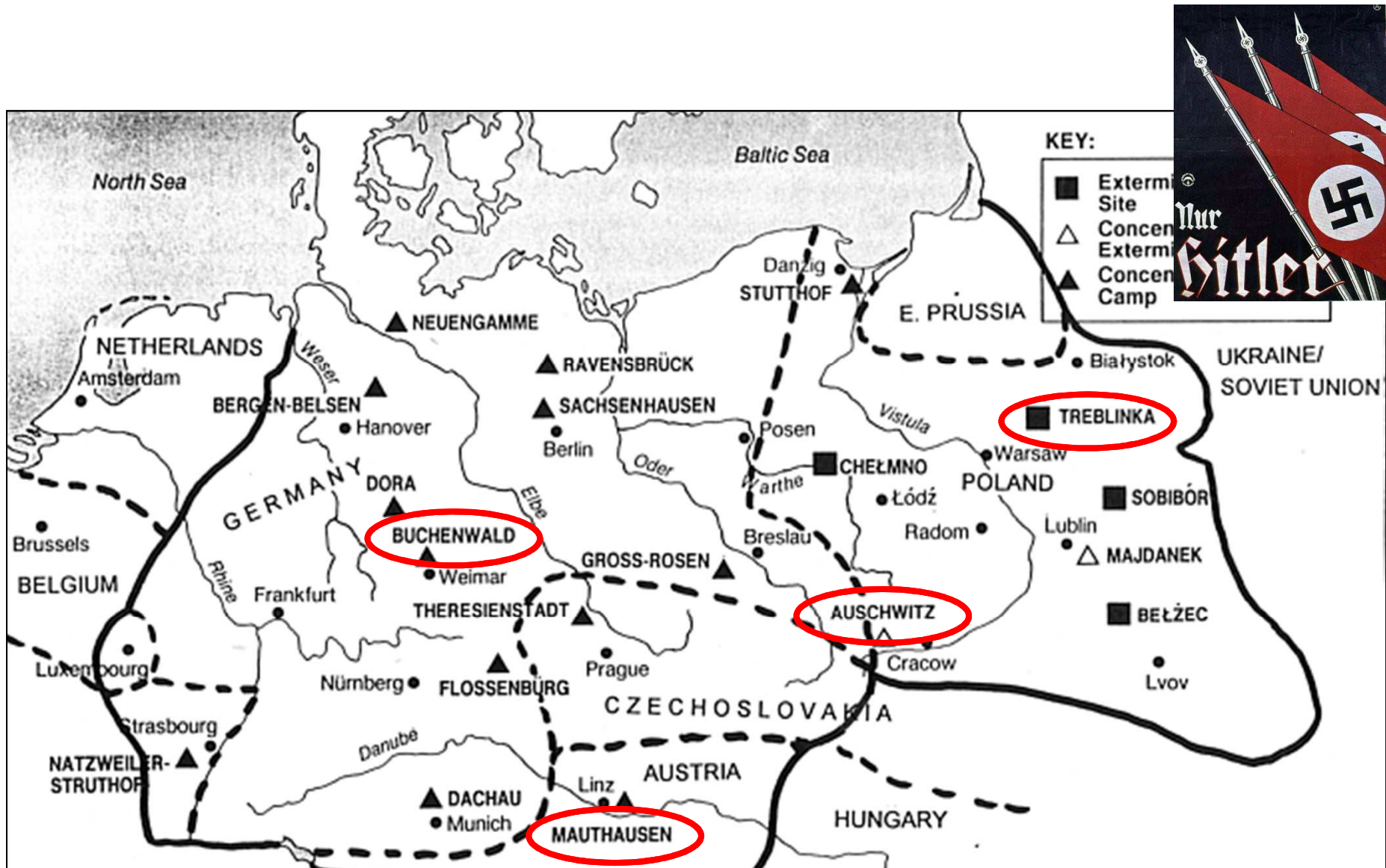
6e: Farmacologia Clínica

Grau en Ciències Biomèdiques:

4t: Ètica, Medicina Preventiva i Salut Pública

Grau en Enginyeria Biomèdica:

3r: Enginyeria clínica, Sistemes de salut i Ètica



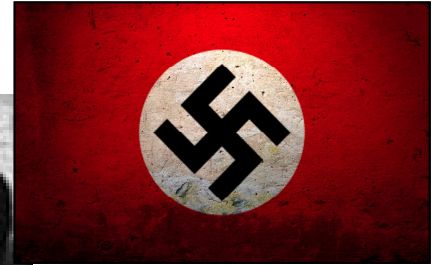
WW II: Nazi Extermination and Concentration Camps (1940-1946)



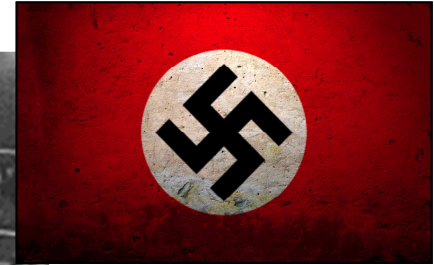
Auschwitz Nazi Concentration Camp (Poland)



Number 10 Medical Building. Auschwitz Camp



**Josef Rudolf Mengele: Medical Doctor (Frankfurt University).
Medical officer at Auschwitz.
Known as "*der weiÙe Engel*" ("the White Angel").
Died in 1979 (Brazil).**



**The United States of America vs 23 Nazi Doctors
The Doctor's Trial (1946-1947). Nuremberg (Germany).
The origin of the *Nuremberg Code***

Ethics in Biomedical Research:

Knowledge of basic documents:

- **Nuremberg Code**
- **Belmont Report**
- **Declaration of Helsinki**

Practical aspects and examples:

- **Research protocols**
- **Informed consent**
- **IRB submission and approval**
- **Good Clinical Practices**



Informed consent:

**For a dying man it is not a difficult decision,
because he knows he is at the end.**

***If a lion chases you to the bank of a river filled with
crocodriles, you will leap into the water convinced
you have a chance to swin to the other side.***

***But you would never accept such odds
if there were no lion.***

**Dr. Christiaan Barnard.
December, 1967.
First human heart transplantation.**



Everybody lies.

When a baby is born, it's probably better off if it's born with a brain that's wired to lie. Because in a world where everybody lies, the only way to survive is to be able to lie better than everybody else.

Parents get stressed out about their kids. They're probably stressed out about their kids because they're worried about their kids. They're worried about their kids because they're worried about their kids. They're worried about their kids because they're worried about their kids.

He figures out what's going on. He figures out what's going on because he's a genius. He's a genius because he's a genius. He's a genius because he's a genius. He's a genius because he's a genius.

Everybody does stupid things. Everybody does stupid things because they're stupid. They're stupid because they're stupid. They're stupid because they're stupid. They're stupid because they're stupid.

Get out of my office. Sometimes the best gift about winning is never seeing you again.

“Utilitarian”

Dr. House:

I take risks, sometimes patients die.

But not taking risks causes more patients to die.

**So I guess my biggest problem is I've been cursed
with the ability to do the math.**

(House MD, Detox episode)

When is Institutional Review Board (CEIC) approval required?



Always.

(Better safer than sorry...)

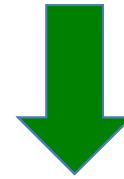
IRB (CEIC)



PI trying to get a project pass the IRB



IRB members tackling down the PI and its project



YOU CAN'T

ALWAYS GET

WHAT YOU **WANT**

*but if you
try sometime*

YOU JUST MIGHT FIND

(**YOU GET WHAT YOU**)

NEEDED

?

GOT
ETHICS