



# **THE MILITARY PHARMACEUTICAL LABORATORY AT THE SCHOOL OF PHARMACY OF SANTIAGO DE COMPOSTELA (1936-1939): HOW AND WHO WORKED THERE.**

---

Beatriz Brasa Arias & Mariana Landín Pérez  
Departamento de Farmacia y Tecnología Farmacéutica  
Universidad de Santiago de Compostela

# 18<sup>TH</sup> JULY 1936: STARTS SPANISH CIVIL WAR



# THE BUILDING



- ✘ Renaissance Palace (S. XVI)
- ✘ School of Pharmacy from 1857 to 1971
- ✘ School of Medicine until 1928

# LUIS MAIZ ELEIZEGUI

- Military pharmacist
- Laboratory organizer  
and director



# THE STAFF

---

- ✘ Professor: captain military pharmacist
- ✘ Assistant: lieutenant military pharmacist
- ✘ Students and high-degree students
- ✘ Voluntary girls from Santiago de Compostela

# FIRST LABORATORY STAFF: SUMMER OF 1936



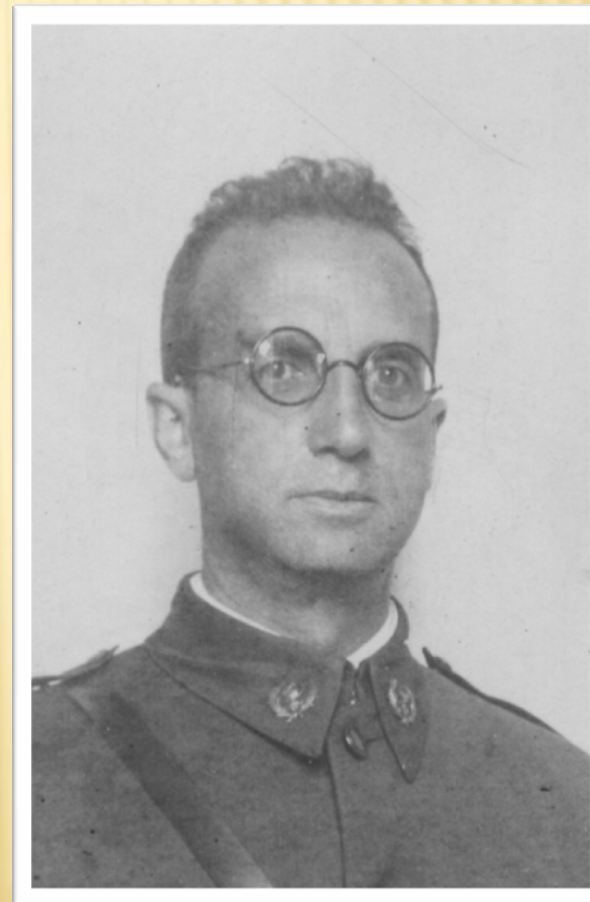
# DEPARTMENTS

---

- × SPECIALITIES AND RESEARCH
- × CHEMICAL PRODUCTS
- × INJECTIONS
- × GALENIC FORMULATIONS
- × ASEPTIC AND ANTISEPTIC RECOVER
- × FIRST AID KITS OF BATTALION
- × VACCINES

# SPECIALITIES AND RESEARCH DEPARTMENT

- ✘ Head: **Ricardo Montequi y Díaz de Plaza** (Inorganic Chemistry professor)
  
- ✘ Production
  - calcium lactobionate
  - calcium gluconate
  - methyl iodide
  - urotropine
  - Iodomethylate
  - quinine iodobismuthate
  - silver manganite,





# CHEMICAL PRODUCTS DEPARTMENT

---

- × Head: **Aniceto Charro Arias**  
(Chemical Analysis professor)
- × He was punished with two years without employment and salary for being close to socialism.



# INJECTIONS DEPARTMENT

---

✘ Head: **Carlos Puente Sánchez**

(Practical Pharmacy professor)

✘ Production

+ Pantopon

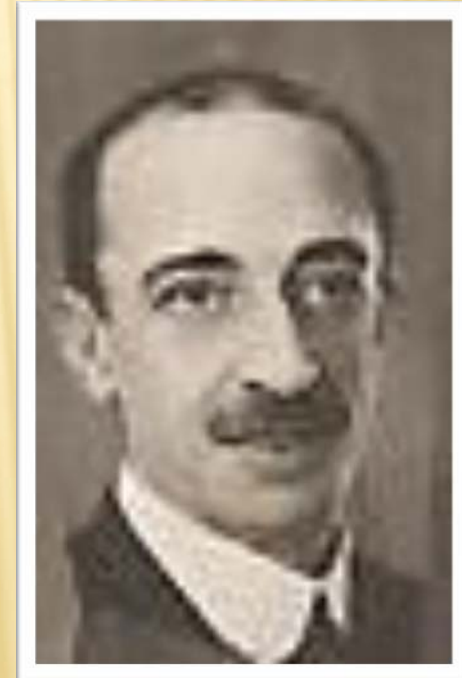
+ Neumoquín (similar to Pulmoquín®)

+ Fagoseptine (similar to French  
Septicemine®)

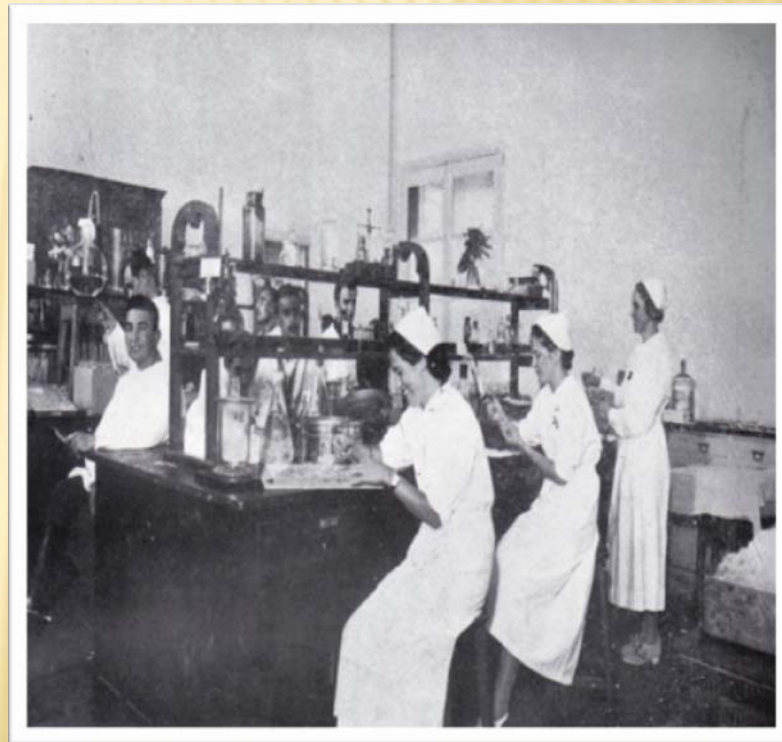
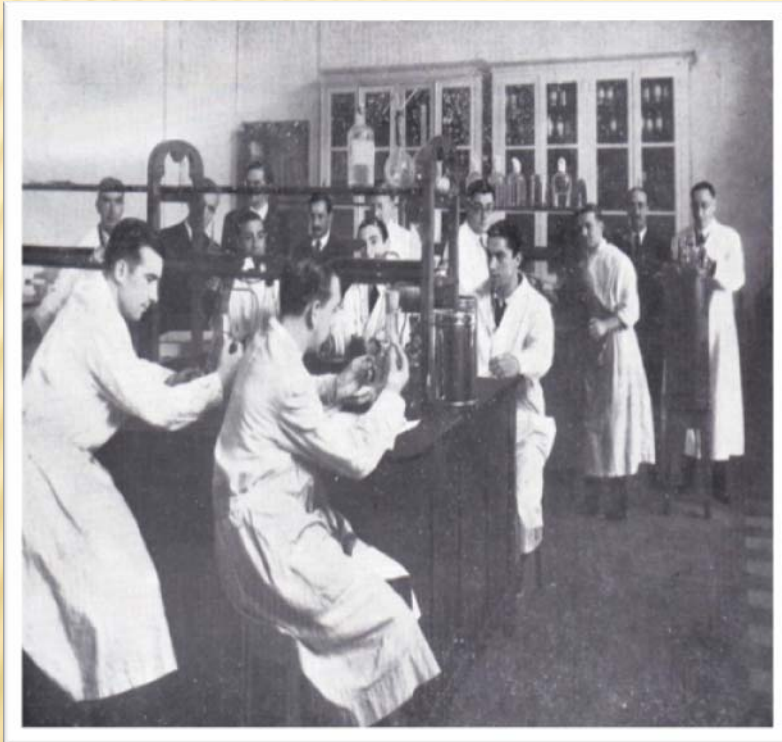
+ Colloidal bismuth

+ Sodium salicylate,

+ Ephedrine



# INJECTIONS DEPARTMENT



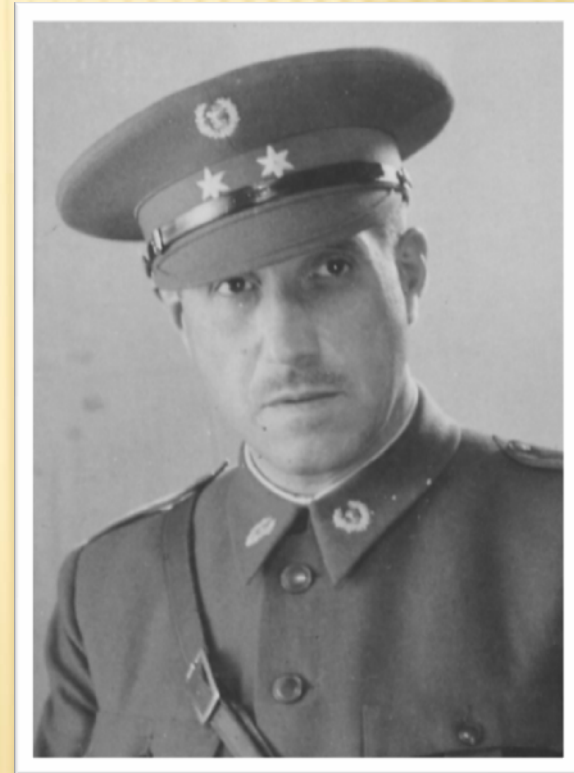
# GALENIC FORMULATIONS DEPARTMENT

- ✘ Head: **Antonio Elizegui López** (Pharmacognosy professor and dean of the Faculty)
- ✘ Production
  - + Silver manganite ointment gauzes
  - + Sterile petrolatum
  - + Lassar's paste
  - + Menthol
  - + Ambrine



# ASEPTIC AND ANTISEPTIC RECOVER DEPARTMENT

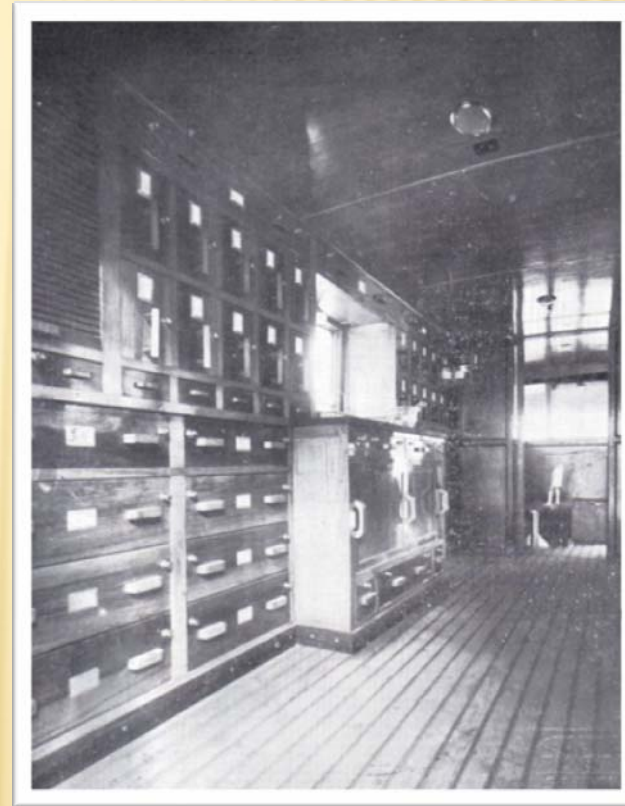
- ✘ Head: **Eduardo Vilariño de Andrés Moreno** (Practical Pharmacy assistant)
- ✘ Mobile Pharmacy “Santiago de Compostela”
- ✘ Productions
  - + individual first aid packages



# MOBILE PHARMACY “SANTIAGO DE COMPOSTELA”



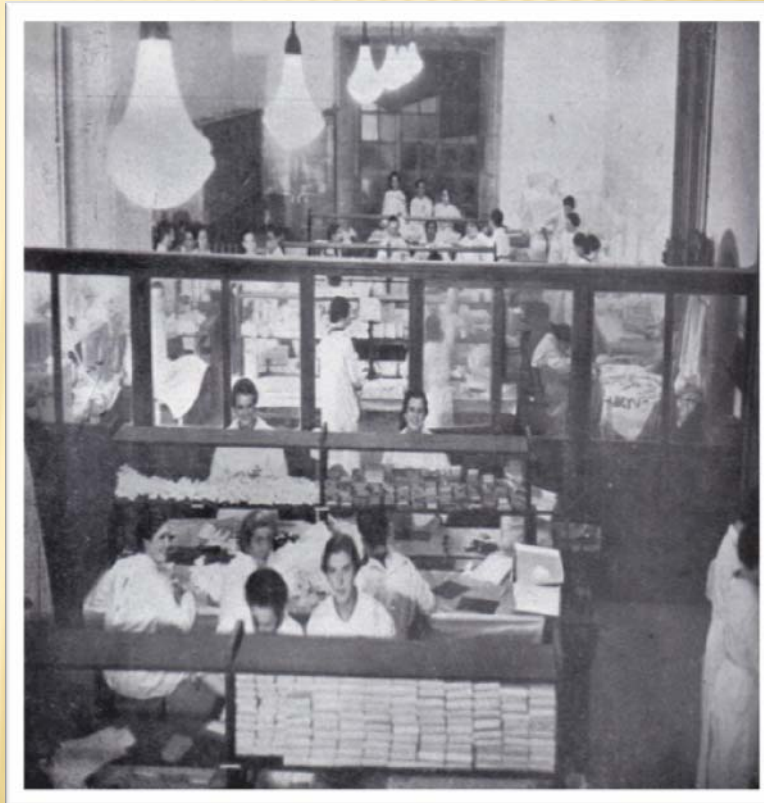
IN FRONT OF THE LABORATORY



MOBILE PHARMACY'S INSIDE

# FIRST AID KITS OF BATTALION DEPARTMENT

- ✘ Head: **Luis Sánchez Harguindey** (doctor and assistant at the School of Medicine)
  
- ✘ Production:
  - + Individual first aid kits for every soldier
  - + Surgical elements



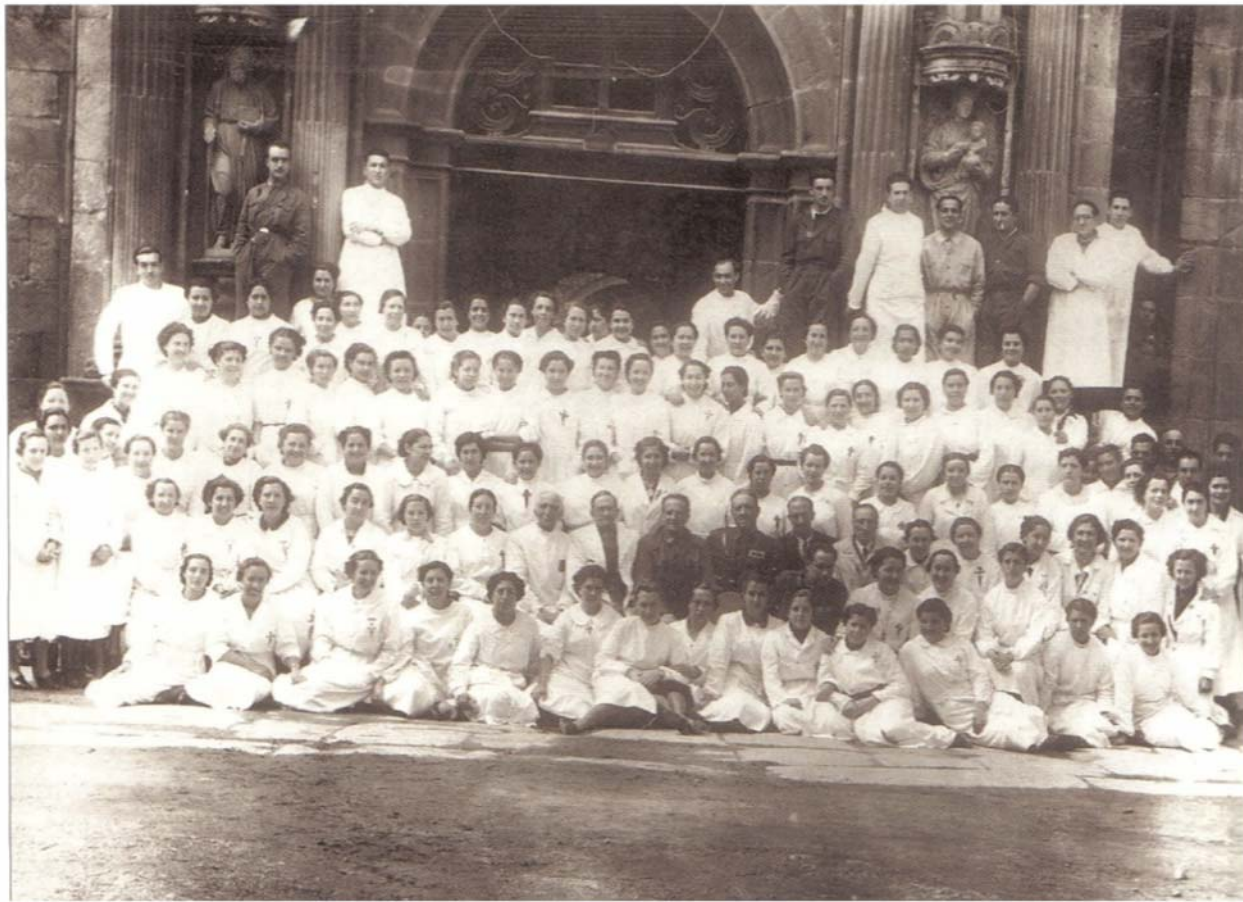
# VACCINES DEPARTMENT

---

- ✘ Head: **Juan Varela Gil** (doctor and assistant to the School of Medicine)
  
- ✘ Products:
  - + Vaccine against tetanus
  - + Vaccine against thyfus
  - + Antivariolic vaccine



# MILITARY PHARMACEUTICAL LABORATORY STAFF AT THE END OF THE WAR IN 1939





# **THE MILITARY PHARMACEUTICAL LABORATORY AT THE SCHOOL OF PHARMACY OF SANTIAGO DE COMPOSTELA (1936-1939): HOW AND WHO WORKED THERE.**

---

Beatriz Brasa Arias & Mariana Landín Pérez  
Departamento de Farmacia y Tecnología Farmacéutica  
Universidad de Santiago de Compostela