

# ADVANTAGES OF CENTRALIZED FARICIMAB COMPOUNDING IN THE PHARMACY SERVICE: GREATER SAFETY, LOWER COSTS

L. Carrasco Piernavieja<sup>1</sup>, C. Gonzalez-Perez<sup>1</sup>, M. Saénz de Tejada López<sup>1</sup>, A.A. García Sacristán<sup>1</sup>, J.J. Martínez Simón<sup>2</sup>, J.A. Domínguez Cháfer<sup>1</sup>, A. de Diego Peña<sup>1</sup>, N. Luengo Gallego<sup>1</sup>, L. Cisneros de la Iglesia<sup>1</sup>, J. Martín Mendoza<sup>1</sup>, M.T. Benítez Giménez<sup>1</sup>

<sup>1</sup>Hospital Pharmacy. Hospital Clínico San Carlos- IDISSC, Madrid, Spain

<sup>2</sup>Hospital Pharmacy. Hospital Universitario Fundación Alcorcón, Madrid, Spain

## BACKGROUND

Safety in the compounding of sterile medicines in Pharmacy Services relies on the implementation of Good Pharmaceutical Practices (GPP), which include appropriate working areas, strict environmental controls, physical separation of activities to prevent cross-contamination and errors, and restricted access for professionals undergoing continuous training.

## AIM AND OBJECTIVES

To assess the benefits of centralized compounding of Faricimab syringes under sterile conditions compared to dispensing vials for direct administration in the Ophthalmology Department (OD), including associated cost savings.

## MATERIAL AND METHODS

Retrospective observational study conducted in a tertiary hospital between October 2024 and July 2025.

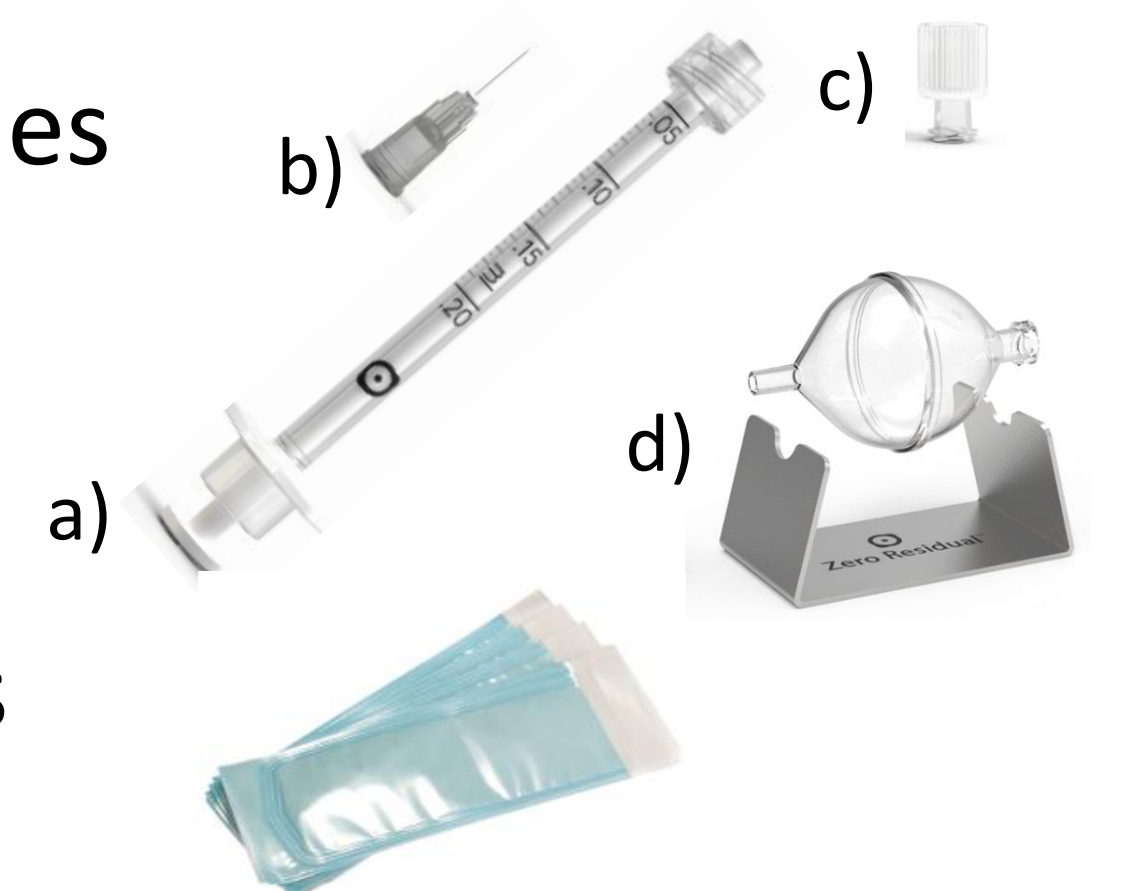
### Variables collected

- Total syringes prepared in the Pharmacy Department
  - Submitted to the Microbiology Department for microbiological quality control (mQC)
  - Administered by the Ophthalmology Department
- Costs of faricimab and associated consumables

### Preparation in the Pharmacy Department

In a horizontal laminar flow hood following GPP

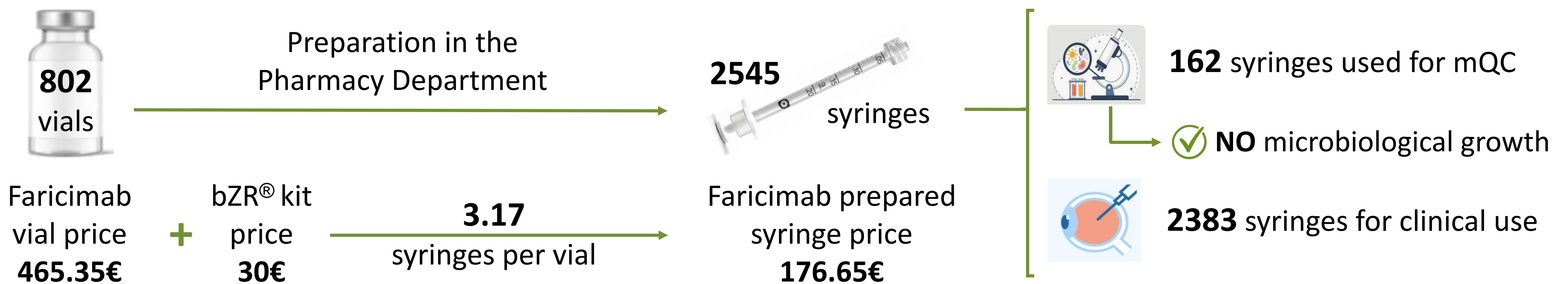
- Using the basic ZeroResidual<sup>®</sup> kit (bZR<sup>®</sup> kit):
  - Sterile, silicone-free, low dead-volume, single-use 0.2mL syringes
  - Disposable hypodermic needles
  - Latex-free protective caps
  - Auxiliary bubble adapters
- Storage:
  - Individual light-protective bags
  - At 2-8 °C for up to 28 days



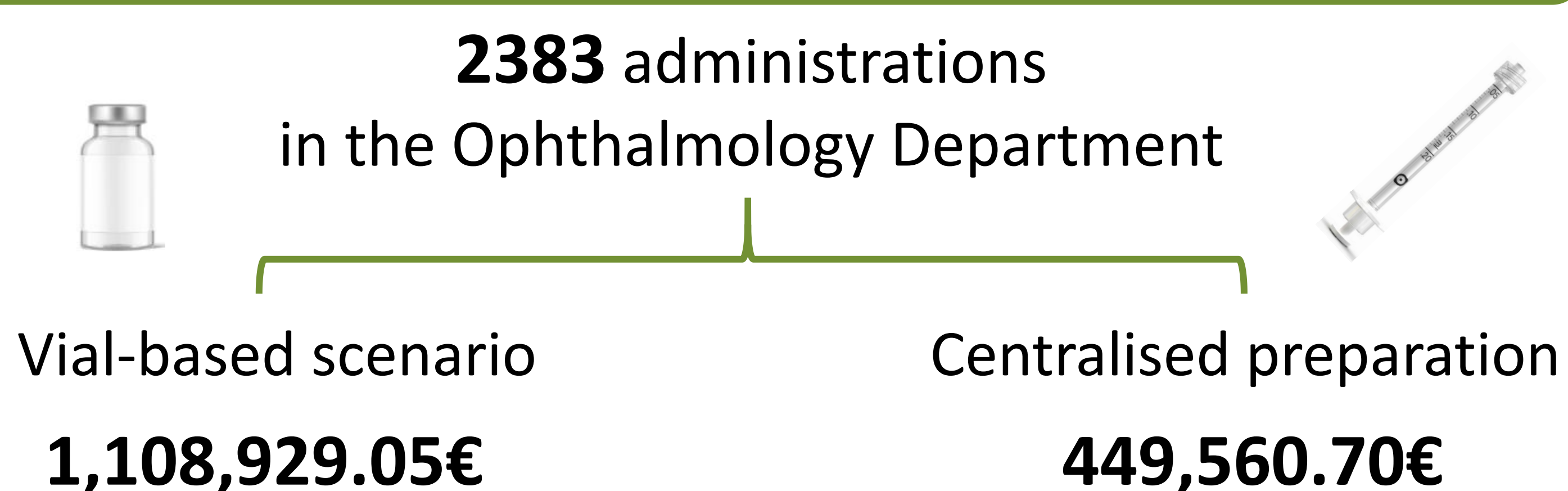
### Hypothetical comparison



## RESULTS



### Hypothetical comparison



### Assessment by the Ophthalmology Department

- Enhanced safety due to:
  - Sterile compounding
  - mQC
- Greater ease of use
- Reduced waiting times compared to on-site preparation

### Limitations

- Indirect costs arising from preparation by nursing staff were not included



## CONCLUSIONS

Centralized compounding of Faricimab syringes led to substantial cost savings in public healthcare, while also enhancing patient safety through sterile preparation and rigorous mQC.

Additionally, it improved ophthalmologists' satisfaction due to its ease of use and reduced patient waiting times.