### GALLIUM LABELLING USING RADIONUCLIDE GENERATORS FROM DIFFERENT SUPPLIERS

Bataillard Thomas\*, Cougourdan Lucas\*, Mordefroy Edouard\*, Angoue Orland\*

\* - Unité de radiopharmacie, PUI, CHU Jean Minjoz, 3 Bd Alexandre Fleming, 25000 Besançon

─o1angoue@chu-besancon.fr



#### Introduction

The implementation of <sup>68</sup>Ga radiolabeling represents a significant investment for healthcare facilities. This constraint drives radiopharmacy units to optimize the labeling process. To do so, it has become common practice to pool the eluates from two generators, usually of the same reference. This increases the available activity for radiolabeling and thus the number of patients treated per session. In our radiopharmacy unit, we combine the eluates from two <sup>68</sup>Ga generators of different references and technologies.

# Objective

- > TO PRESENT OUR METHOD
- > TO **ASSESS ITS RESULTS** IN REGARD OF THE LABELLING CONDUCTED

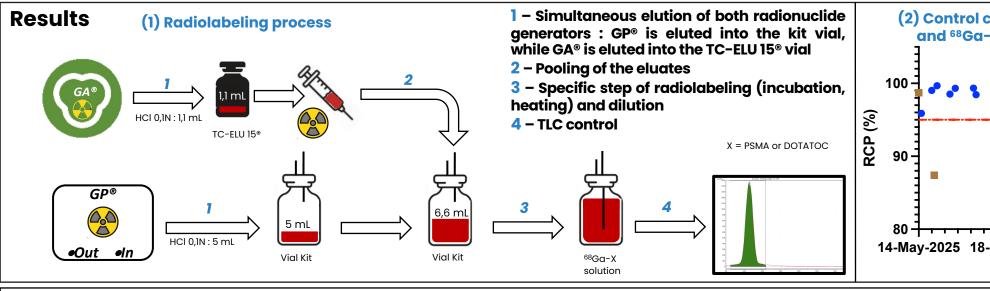


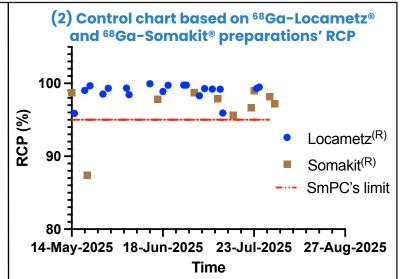


## Material – Radionuclide generators and corresponding medical devices

- > GALLIAPHARM® (GP®, ECKERT & ZIEGLER): 1 0.22m filter, 1 acid-resistant needle, 1 2-pieces 20mL syringe, 1 female to female connector, 1 air intake needle
- > GALLIAD® (GA®, IRE-EliT): specific tubing, 1 acid-resistant needle, 1 2-pieces 2mL syringe, 1 TC-ELÚ 15® vial

Radiochemical purity (RCP) was assessed through thin-layer chromatography (TLC) in accordance with the kit's summary of product characteristics





#### **Discussion**

Such a process is actually **unseen**. This work proves that it is **possible to extend the combination of eluates to generators of different technologies** and obtain RCPs that comply with the specifications of commercially available kits.

This process allows for an increase in the number of patients per session and greater profitability of radiolabeling.