

Determining cost data for fertility treatment in different European settings

Chaudhari VS¹, Roeder C², Harty G³, Schwarze JE³

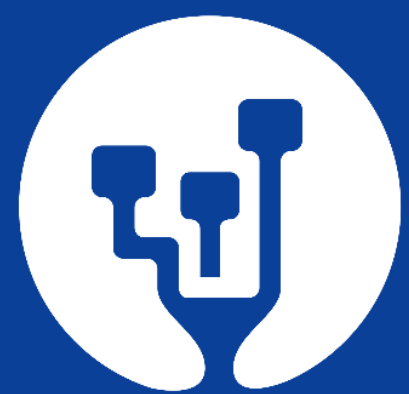
¹EMD Serono Research & Development Institute, Inc., Billerica, USA, an affiliate of Merck KGaA

²Pharma Value Consulting, Switzerland

³Merck Healthcare, Merck KGaA, Darmstadt, Germany



CONCLUSION



The costs associated with pregnancy and live birth were the main contributor to the total costs related to one ART treatment cycle with fresh embryo transfer leading to a live birth. Drug acquisition costs for r-hFSH alfa originator contributed to only 6-17% of the total costs



The outcome of this study is aligned with results of an earlier study conducted in the Spanish healthcare setting¹



INTRODUCTION

- Considerable costs are associated with treatment of infertility but little evidence is available on the main drivers of them
- Decision makers often focus mainly on costs for drugs used for stimulation when making decisions on the treatment of choice



OBJECTIVE

- To analyse key costs for assisted reproductive technology (ART) with one fresh embryo transfer leading to a live birth in Spain, Norway, France, UK, Germany, and Denmark
- To determine the proportion of costs attributed to the acquisition costs of r-hFSH alfa originator in the analyzed markets



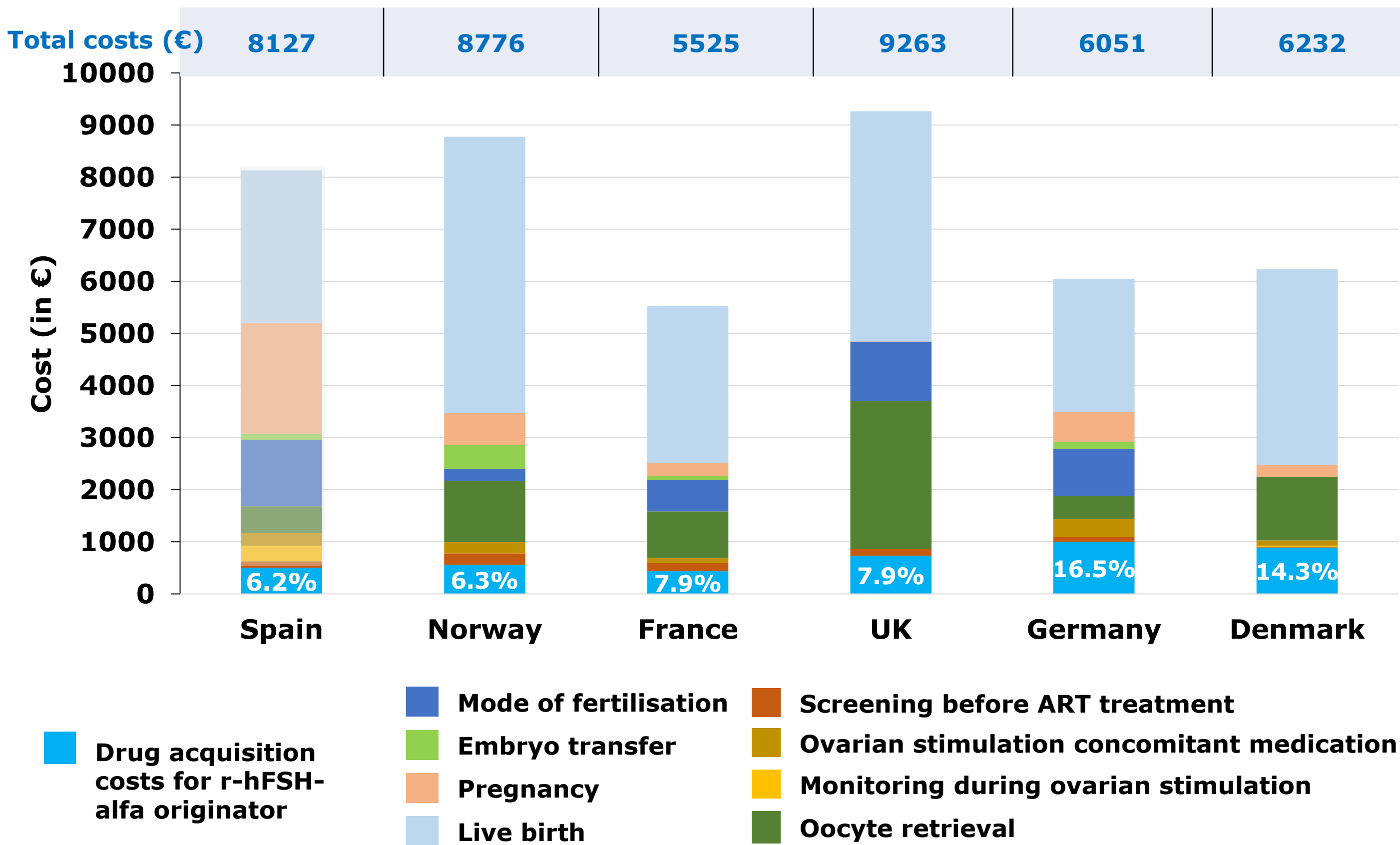
METHODS

- A targeted literature review was performed on price lists, databases and other publicly available information to determine the costs associated with ART treatment. Costs were grouped according to the treatment phase (Figure 1), as per the previously published data*.
- Where needed, clarification was provided by country clinical experts
- Total costs related to the entire pathway of one ART treatment cycle leading to a live birth and the proportion attributed to drug acquisition costs (for r-hFSH alfa originator) were determined



RESULTS

Figure 2. Total costs and breakdown of costs associated with one ART treatment cycle using a fresh embryo transfer leading to a live birth



- The total costs of one cycle for ART treatment leading to a live birth varied between countries (€5,525-€9,263), with pregnancy and live birth being the major contributors in all countries (ranging from 47 to 68% of total costs) (Figure 2)
- In contrast, drug acquisition costs for r-hFSH-alfa originator contributed only in a limited way to total cost, accounting for 6-8% (Spain, Norway, France, UK) and 14-17% (Denmark, Germany) of the total costs of one ART treatment cycle leading to a live birth (Figure 3)

Figure 1. Steps of the patient journey of one ART treatment cycle with fresh embryo transfer leading to a live birth for which costs were estimated

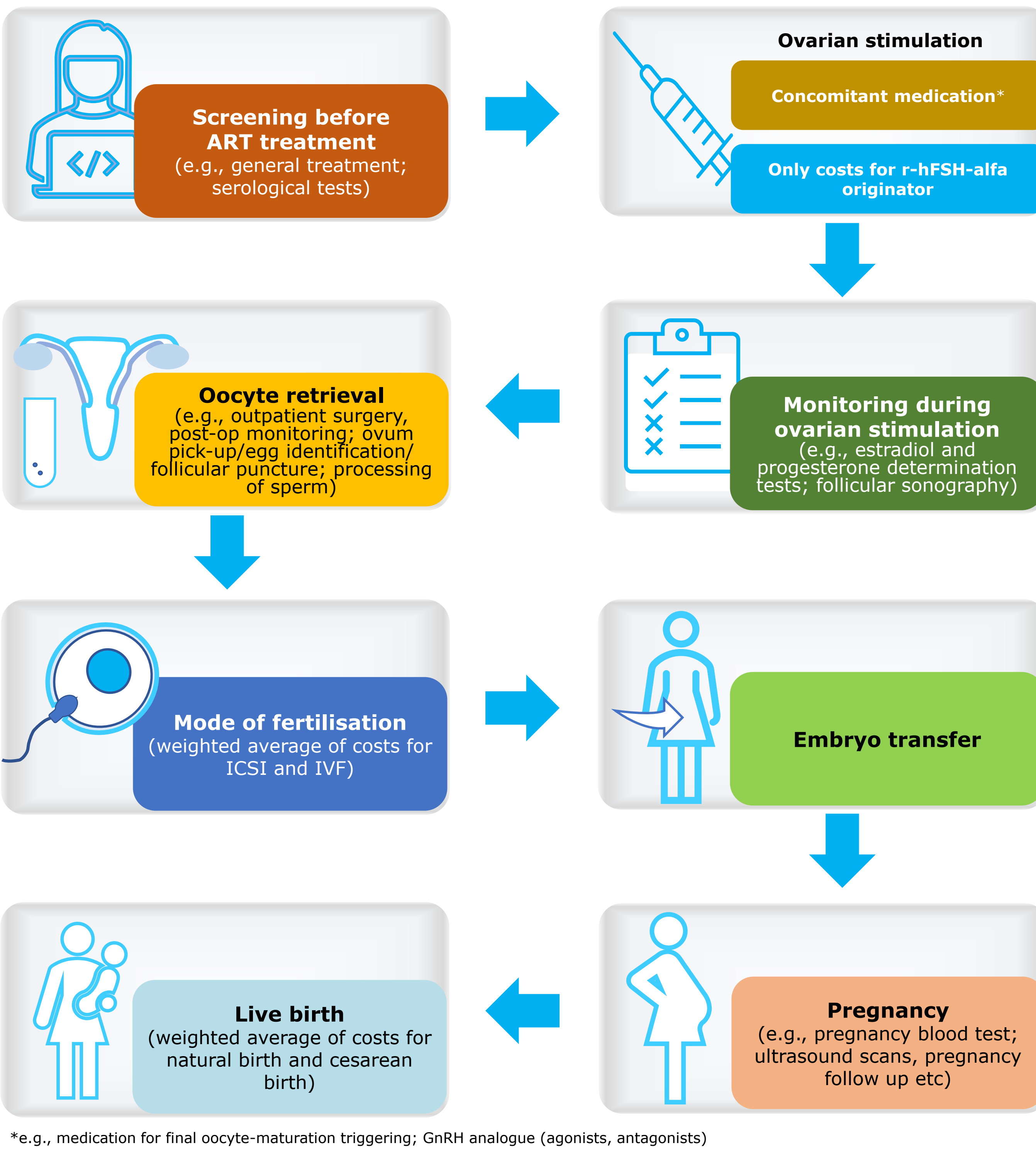
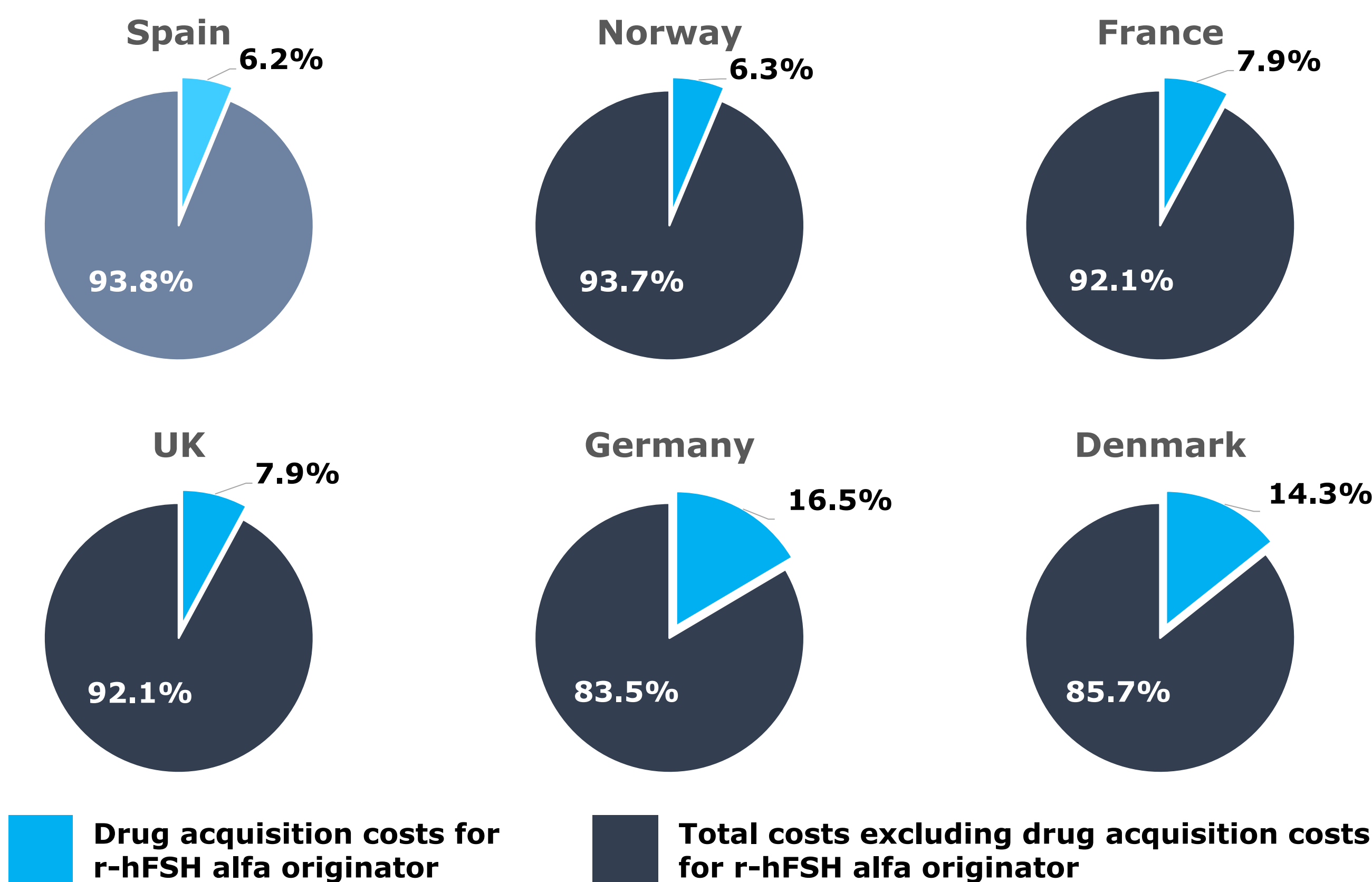


Figure 3. Cost of drug acquisition for r-hFSH alfa originator as a proportion of total costs of one ART treatment cycle leading to a live birth



*Data for Spain was previously reported at ISPOR 2021¹ and serves as the reference from previously reported literature for the current analysis.