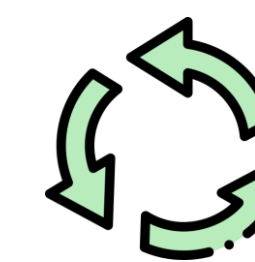


BACKGROUND AND IMPORTANCE



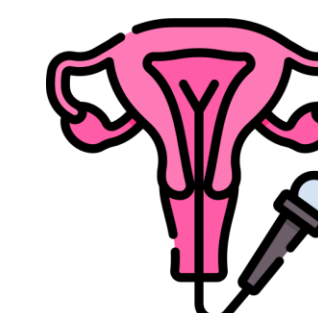
- Performing certain procedures typically carried out in the operating room during consultations is an increasingly common practice in healthcare facilities.
- The relocation of some hysteroscopies was requested by our gynecologists to **free up operating room (OR) slots** and **streamline the patient care pathway**. Due to the lack of reusable equipment, **single-use hysteroscopes (SUH)** were provided as a temporary solution.
- The decision to use either **single-use** or **rigid reusable hysteroscopes (RRH)** equipment takes into account numerous factors, primarily **financial** but also **technical**, depending on existing standards and practitioner's habits.



AIM AND OBJECTIVES



- ✓ To **compare costs** associated with single-use hysteroscopes (SUH) and reusable hysteroscopes (RRH) in **outpatient consultations**.



- ✓ To assess the **technical** and **organizational** advantages and disadvantages of each solution.

MATERIALS AND METHODS



Retrospective economic evaluation carried out over the period June 2023 - June 2024

(The numbers are based on the hysteroscopies carried out during this period in our center and the number of RRHs required was determined by the gynaecology team).

- **Economic assessment based on :**
 - ✓ Supplier quote depreciated over 5 years, which includes hysteroscopes, crocodile clips and the imaging station;
 - ✓ Costs associated with the sterilisation process and the nursing time;
 - ✓ Costs associated with waste.



- **Technical assessment based on the expertise of our establishment's practitioners.**

RESULTS



Economic comparison



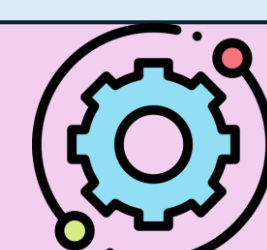
RRH COSTS (Excluding taxes)

Supplier quote (for 5 hysteroscopes and including 3 crocodile clips)	29525,40€
Quote depreciation (annual cost)	5905,08€
Sterilization process/year*	2323,20€
Sterilization containers (annual cost)	333,39€
Nursing costs/year**	554,40€
Total annual cost	10783,02€
Cost per procedure	138,12€

SUH COSTS (Excluding taxes)

Singue-use hysteroscope (x 66)	17764,95€
Crocodile clip (x36)	1950,00€
Waste costs/year	35,29€
Total annual cost	19750,24€
Cost per procedure	299,25€

Technical comparison



Based on 66 annual hysteroscopies (36 needed crocodile clips)

Single-use hysteroscopes



Advantages :

- **Eliminates** risk of cross-contamination
- **Reduces** dedicated paramedical time



Drawbacks :

- **Risk** of supply shortages
- **Increased** quantity of waste
- **Overly flexible tip** → limits maneuverability

Reusable hysteroscopes



Advantages :

- **Reduces** average costs by **53%**
- **Offers** superior image quality



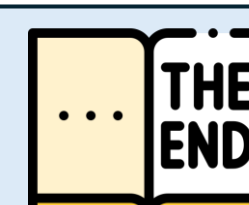
Drawbacks :

- **Risk** of cross-contamination
- **Increased** dedicated paramedical time and logistical management
- **Risk** of breakage → cost inflation

*Calculation based on the 'unités d'oeuvre' (UO) method of the French sterilisation society. 1 UO = 0.32€ and the sterilisation of a RRH corresponds to 110 UO.

** The nursing time required to manage an RRH is around 20 minutes, which corresponds to a 8.40€ cost according to nursing pay scales.

CONCLUSION AND RELEVANCE



- This medico-economic study highlights that reusable hysteroscopes (RRH) remain a **more cost-effective solution** compared to single use hysteroscopes (SUH), with an average cost per procedure **53% lower** (€138,12 vs. €299,25).



- Investing in RRH is **justified in the short term**. However, the evolution of costs and performance of single-use devices warrants **reevaluation in the coming years** to ensure optimal decision-making that accounts for economic, ecological, and organizational criteria. For this reason, this subject will be **discussed at a multi-professional consultation meeting** in order to make the most appropriate choice.

Limitations : This study did not account for the costs associated with the reception and distribution of single-use devices within the institution. Such logistical efforts are not yet quantifiable. In addition, the risk of RRH breakage has not been taken into account either.

