

## CLINICAL IMAGE

# “Do it cheaper”: A cost-effective Endobag for small specimens

Ioannis Chatzipapas<sup>1</sup>  | Nikolaos Kathopoulos<sup>1</sup>  | Konstantinos Samartzis<sup>1</sup> |  
Konstantinos Kypriotis<sup>1</sup> | Panagiota Siemou<sup>2</sup>  | Athanasios Protopapas<sup>1</sup> 

<sup>1</sup>1st Department of Obstetrics and Gynecology, National and Kapodistrian University of Athens, Alexandra Hospital, Athens, Greece

<sup>2</sup>Department of Radiology, Alexandra Hospital, Athens, Greece

**Correspondence**

Ioannis Chatzipapas, Alexandra Hospital, 80 Vasilissis Sofias Avenue 115 28, Athens, Greece.  
Email: ixatzipapas@yahoo.gr

**Abstract**

A simple technique that permits to reduce the cost during gynecologic laparoscopic surgery. Small specimens may be retrieved with the use of a modified urine pediatric bag.

**KEYWORDS**

Endobag, Laparoscopy, pediatric urine collector

## 1 | INTRODUCTION

We describe a urine specimen pediatric bag used as an alternative to the Endobag for the retrieval of small laparoscopic specimens. It consists of simple, safe, and cost-effective technique.

An important surgical step during these procedures is the retrieval of the specimen, and usually, a laparoscopic bag is used for this purpose.<sup>1</sup>

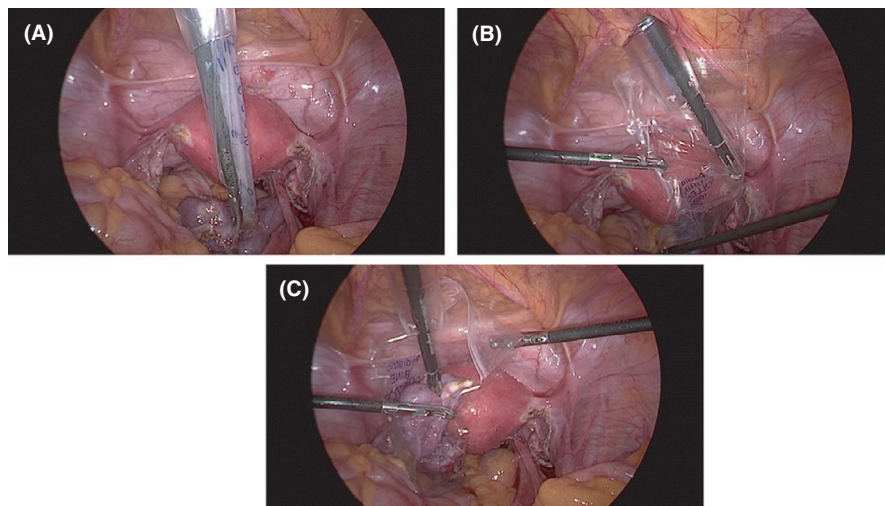
We have been experimenting with a urine specimen pediatric bag as an alternative to the Endobag (Figure 1).<sup>2</sup> It is commonly used for accurate urine collection from non-toilet trained children and is easily obtainable from any pediatric department. Its cost is much less than the Endobag approaching \$0,19. The endobag's cost depending on the manufacturer varies from \$20 to \$75. Other alternative bags have been proposed with excellent results such as glove fingers. The sterilized urine pediatric bag is rolled up and introduced into the body. Unrolling and opening the bag follows by separating the two leaves of both sides (Figure 2). The removed specimens are placed into the bag and secured by holding the two leaves together. The upper corner of the bag is grasped, and



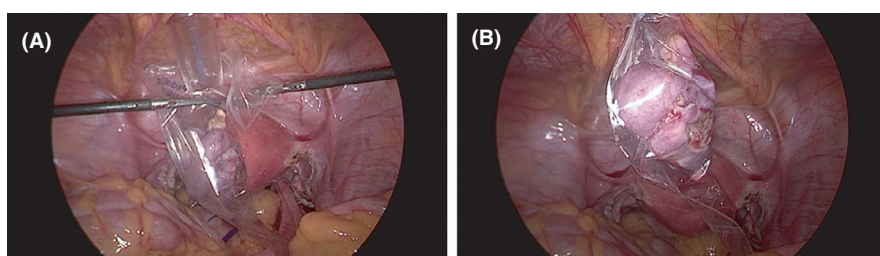
FIGURE 1 Modified low-cost pediatric bag

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**FIGURE 2** Bag handling: A) The rolled up pediatric bag is inserted into the abdominal cavity B) The bag is unrolled and opened C) The Specimen is placed into the bag



**FIGURE 3** Bag secure and extraction A) The bag is closed by holding the two leaves together with a pair of forceps B) The corner of the end of the bag is brought up to the abdominal incision by removing both the forceps and the port together

accordingly, the system moves up to the abdominal incision by removing both the forceps and the port together (Figure 3). This low-cost bag may be used to retrieve small specimens such as lymph nodes, adnexa, endometriomas, and small ovarian cysts.

This bag is an inexpensive retrieval system that significantly reduces the total costs incurred by both hospital and patient.

## 2 | QUESTION

How can we reduce the cost of gynecologic laparoscopy.

### INFORMED CONSENT

Informed consent from the patient was obtained for publication of the case report.

### ACKNOWLEDGMENTS

Published with written consent of the patient.

### CONFLICT OF INTEREST

The authors have no conflict of interest.

### AUTHOR CONTRIBUTIONS

IC: Conception and design, responsible surgeon. NK: wrote the manuscript. KK: responsible surgeon. KS: collected and created the figures. PS: collected and created the figures. AP: designed the project and edited the manuscript. All authors have read and approved the final manuscript.

### ETHICAL APPROVAL


The method presented is exempted from institutional review board approval, as a common surgical step.

### DATA AVAILABILITY STATEMENT

Data are available upon request.

### ORCID

Ioannis Chatzipapas  <https://orcid.org/0000-0002-7801-597X>

Nikolaos Kathopoulos  <https://orcid.org/0000-0002-0031-809X>

Panagiota Siemou  <https://orcid.org/0000-0001-6022-0257>

Athanasios Protopapas  <https://orcid.org/0000-0001-9395-9162>

**REFERENCES**

1. Yao CC, Wong HH, Yang CC, Lin CS, Liu JC. Liberal use of a bag made from a surgical glove during laparoscopic surgery for specimens retrieval. *Surg Laparosc Endosc Percutan Tech.* 2000;10(4):261-263.
2. Detorakis S, Vlachos D, Athanasiou S, et al. Laparoscopic Cystectomy In-a-Bag of an Intact Cyst: Is It Feasible and Spillage-Free After All? *Minim Invasive Surg.* 2016;2016:8640871.

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