



Department of Pathology

1. Title of the Practice:

Digital Museum with QR-Coded Pathology Specimens for Interactive Learning

2. Objectives of the Practice:

To enhance medical education by linking physical specimens with QR codes that provide instant access to digital records, ensuring interactive, comprehensive, and accessible learning for students.

3. The Context:

Conventional pathology museums often face challenges of limited specimen details, space constraints, and restricted accessibility. Students cannot always handle or study specimens in detail. To overcome these issues, an interactive digital museum was conceptualized.

4. The Practice:

The Department of Pathology created a Digital Museum by assigning each specimen a unique QR code. On scanning the code, students and faculty can instantly access structured information, including specimen ID, clinical presentation, gross findings, microscopic features, and diagnosis. This integrates traditional specimen-based learning with modern digital technology, offering a permanent, interactive, and easily accessible academic resource. Challenges included compiling accurate data, coding each specimen, and ensuring reliable digital storage and access.

5. Evidence of Success:

Students actively use the QR codes during practical sessions and independent study, reporting better understanding and recall of pathology concepts. Faculty feedback indicates enhanced teaching effectiveness. The initiative is well appreciated as it integrates hands-on learning with digital support, bridging the gap between physical and virtual museums.

6. Problems Encountered and Resources Required:

Challenges included technical setup for QR coding, need for high-quality imaging, and continuous updating of records. Resources required were QR code generation tools, database storage, IT support, and imaging equipment.

WM
29/09/25

Prof. Dr. S. B. Mujumdar
Department of Pathology
Symbiosis International (Deemed University)
29/09/25



**SYMBIOSIS MEDICAL COLLEGE FOR WOMEN
SYMBIOSIS UNIVERSITY HOSPITAL & RESEARCH CENTRE
Symbiosis International (Deemed University)**



(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

Specimen ID: FGS 1

DIAGNOSIS: Uterus – Leiomyosarcoma

CLINICAL PRESENTATION: Complaint of abnormal vaginal bleeding.

GROSS: Specimen of a uterus with bulky, fleshy greyish white tumor invading into myometrial wall.

MICROSCOPY: Section studied shows cellular tumor composed of spindle cells arranged in fascicles with moderate to severe pleomorphism. Atypical mitoses and areas of necrosis are often seen.

WWS
29/9/25



**SYMBIOSIS MEDICAL COLLEGE FOR WOMEN
SYMBIOSIS UNIVERSITY HOSPITAL & RESEARCH CENTRE
Symbiosis International (Deemed University)**

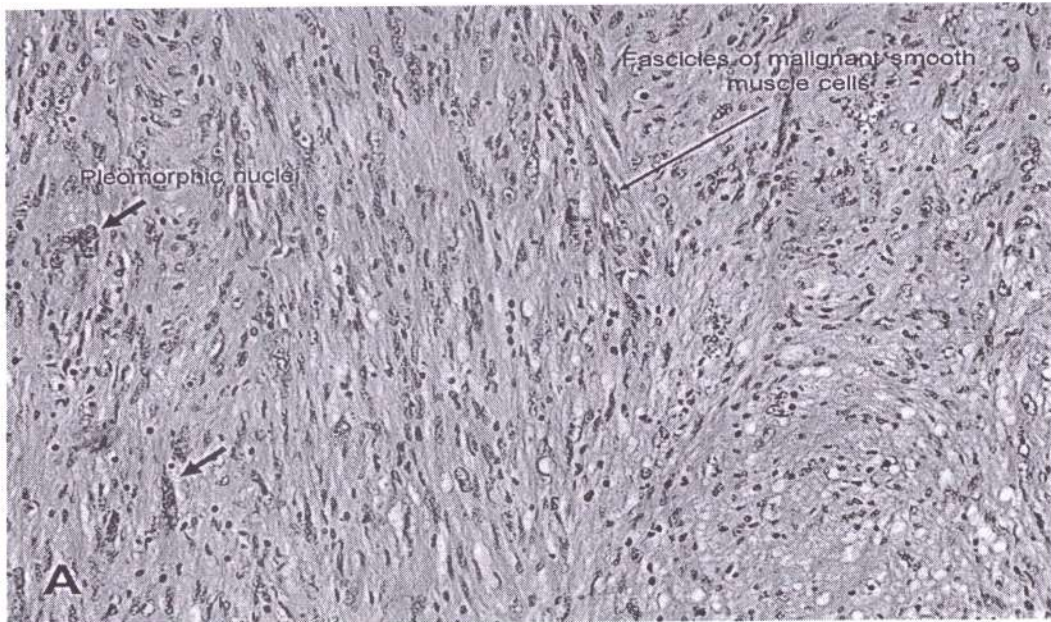


Accredited by NABH

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)



WV
29/9/25