Transvaginal Surgical Mesh for Anterior POP

Obstetrics and Gynecology Devices Panel FDA Advisory Committee

February 12, 2019



Coloplast Group – Ostomy Care / Continence Care / Wound & Skin Care / Interventional Urology



Coloplast Corp.



Mission

Making life easier for people with intimate healthcare needs



Vision

Setting the global standard for listening and responding



Values Closeness to better understand Passion to make a difference

> Respect and responsibility to guide us



Coloplast Representatives

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Prof Jan-Paul Roovers	Urogynecologist, Professor of Urogynecology Co-Lead Investigator of Restorelle 522 Study
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Topics

- Safety
- Effectiveness
- Patient Population
- Physician Training and Education
- Benefit/Risk



Context

Patients and surgeons need safe and effective options for the treatment of anterior POP

• Each patient is unique:

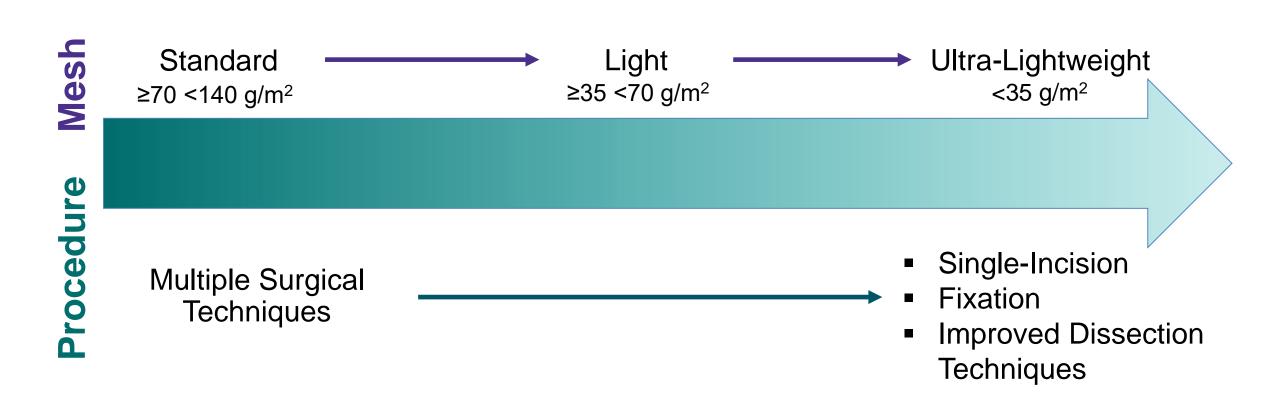
- Anatomy
- Preferences

• Many factors impact surgical outcomes, including:

- Device characteristics
- Patient comorbidities
- Surgical skill and technique



Innovation in Treatment of Anterior POP





Device Characteristics

• Lightweight, Type I macroporous (Amid classification) mesh:

- Reduce the inflammatory response
- Potentially enhance mesh performance
- Promote better integration into the host tissue

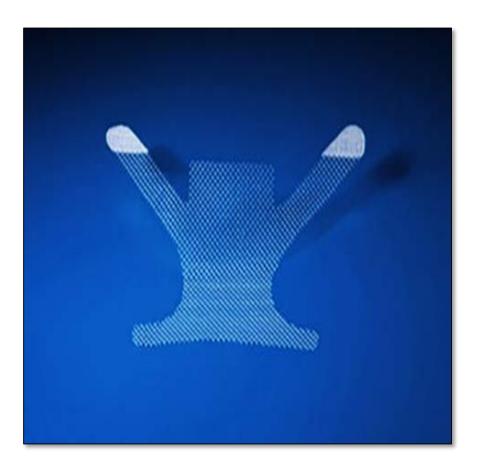
Excerpted from:

FDA Executive Summary: Surgical Mesh for Treatment of Women with Pelvic Organ Prolapse and Stress Urinary Incontinence Obstetrics & Gynecology Devices Advisory Committee Meeting, September 8-9, 2011



Restorelle DirectFix Anterior Mesh

- Ultra-lightweight density = 19 g/m²
- Type 1 macroporous (>75 μm)
- Monofilament polypropylene
- Pre-configured shape
- Single-incision insertion, with fixation





Safety

MAUDE Data (2012-2018)

 Criteria: Any Restorelle surgical mesh device indicated for the transvaginal treatment of anterior POP, including Restorelle DirectFix Anterior

• Observations:

- Well understood safety profile with event types consistent over time
- Many of the event types also occur in native tissue repair procedures



Safety and Effectiveness

Coloplast's Literature Search

- Scope: Publications relevant to the <u>current-generation</u> surgical mesh devices for anterior POP treatment (≥12-month follow-up)
- Source: PubMed (Jan 2011 Nov 2018)
- Search Criteria: Characteristics similar to Restorelle mesh (ultra-lightweight)



Safety and Effectiveness Literature Review – Current-generation surgical mesh devices

• Two cohort studies compared mesh implants to native tissue repair (NTR) for anterior POP treatment

- Both showed statistically significant improvement in objective outcomes (anatomic correction) compared with NTR
 - Lo et al. (2017): 96.6 vs 73.4%, p≤0.001
 - Su et al. (2014): 98 vs. 87%, p=0.006

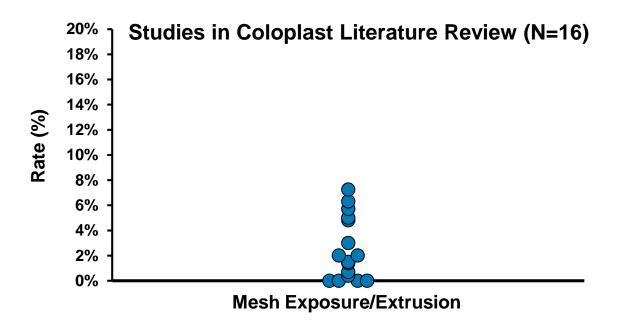
• 14 mesh-only cohort studies with outcomes compared to baseline

- All studies: improvement in objective outcomes
- Where measured: improvements in subjective (patient-reported) outcomes
- In 8 of 14 studies, these improvements were observed past 12 months (13-60 months)



Low rates of exposure/extrusion associated with ultra-lightweight mesh

- 16 studies representing 1842 patients
- Overall incidence: 2.3% (43/1842 patients); Range: 0.0% 7.3%



FDA's literature review result (~11-18%) includes several mesh densities and procedures

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Patient Population: Restorelle 522 Study

Dual purpose

Provide <u>real-world</u> postmarket surveillance through 36 months Provide <u>12-month</u> effectiveness and safety outcome data to support a PMA submission

Primary effectiveness:

Endpoints

- Anatomic correction, retreatment, and patient symptoms
 Primary safety:
 - Device and/or procedure-related SAEs in the anterior compartment



Study design intentionally does not use randomization

 Public statements made from 2008 to 2011 regarding synthetic mesh devices impact the ethical and statistical assumption of equipoise to justify randomization



Patient Population: Treatment Selection

Real-world Decisions in the Restorelle 522 Study

 After a detailed and thoughtful discussion between the patient and her physician regarding the risk, benefits, alternatives and complications of surgery, the surgeon and patient select the treatment





In the Restorelle 522 Study, surgeon/patient treatment choice results in more patients with higher-risk of recurrence in the mesh group compared to the NTR group

Relevance:

 Coloplast believes that this observation demonstrates that surgeons and patients are actively making benefit/risk decisions

Because of differences in treatment groups, informed by real-world benefit/risk decisions, any comparison between the groups should consider the totality of the data



Physician Education and Training

Coloplast supports the professional societies in their initiatives to enhance physician education and training





Benefit/Risk

All mesh is not equal

- Published medical literature is dominated by heavyweight mesh
- Contemporary mesh is ultra-lightweight, macroporous, single incision and is associated with low incidence of exposure/extrusion

Patients and physicians need options

- Each patient is unique
- Real-world evidence suggests that patients and physicians are already making benefit/risk determinations

Thank you



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