



ÜROJİNEKOLOJİ AKADEMİSİ

The latest advancement in mesh technology: Meshes with fasteners

Doç.Dr.A.Akın SİVASLIOĞLU
İzmir Katip Çelebi Üniversitesi
Atatürk Eğitim ve Araştırma Hastanesi
Kadın Hastalıkları ve Doğum Kliniği

- Hiç bir firma ile çıkar ilişkim yoktur.

- I have no conflict of interest.

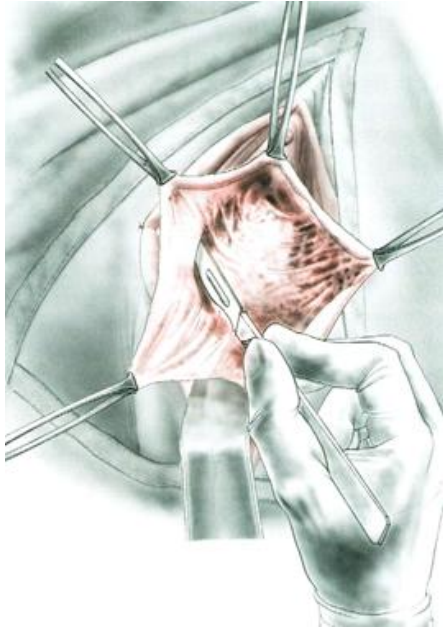


POP repair history...



- In **98-138 CE**, Soranus of Ephesus first described the removal of the prolapsed uterus when it became black.....
- The first successful **vaginal hysterectomy** for the cure of UP was *self-performed* by a peasant woman named Faith Raworth in **1670**

POP repair history...



- *Until the last decade, Vaginal hysterectomy (VH) and native tissue repair were the common practice for POP*

POP repair history...



- Recent approach
 - **Preservation of the uterus**
 - Site specific repair
 - Reinforcement of muscle insertion points (ligaments)
 - Repair with non absorbable **meshes**

Why do we need mesh?



Because...

Conventional techniques have very high recurrence rates;

...anterior repair 12-46 %

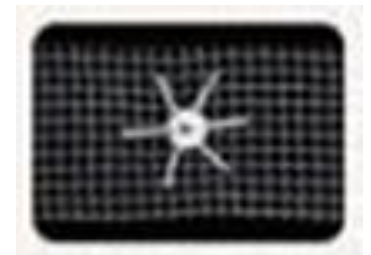
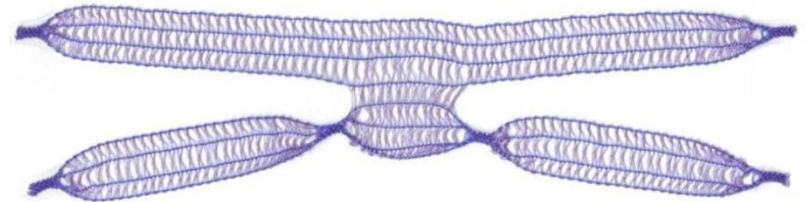
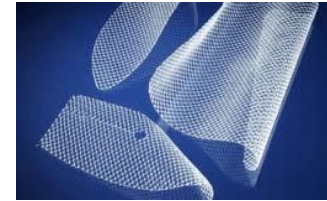
...posterior repair 18-24%

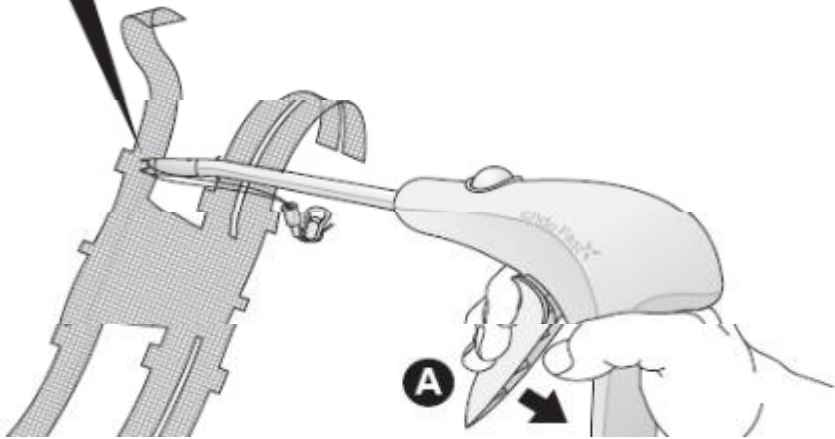
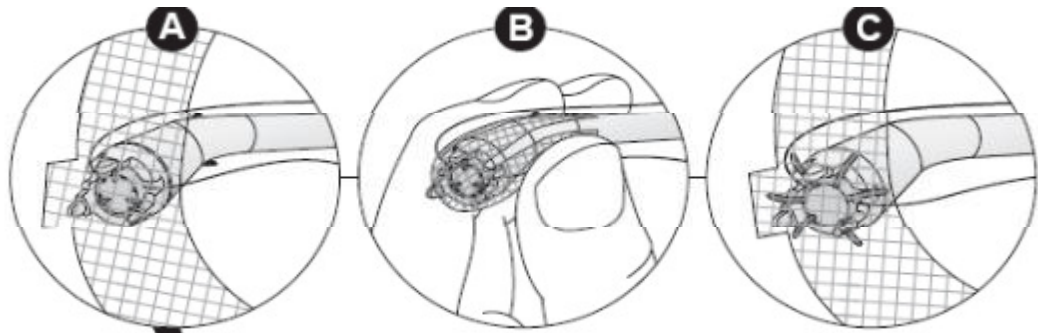




The evolution of meshes...

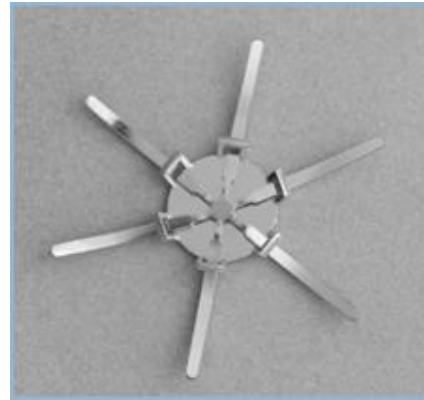
1. Meshes placed into the lodge
2. Meshes with toracars
3. Meshes with fixation devices
4. Vaginal mini implant meshes
5. Meshes with fasteners

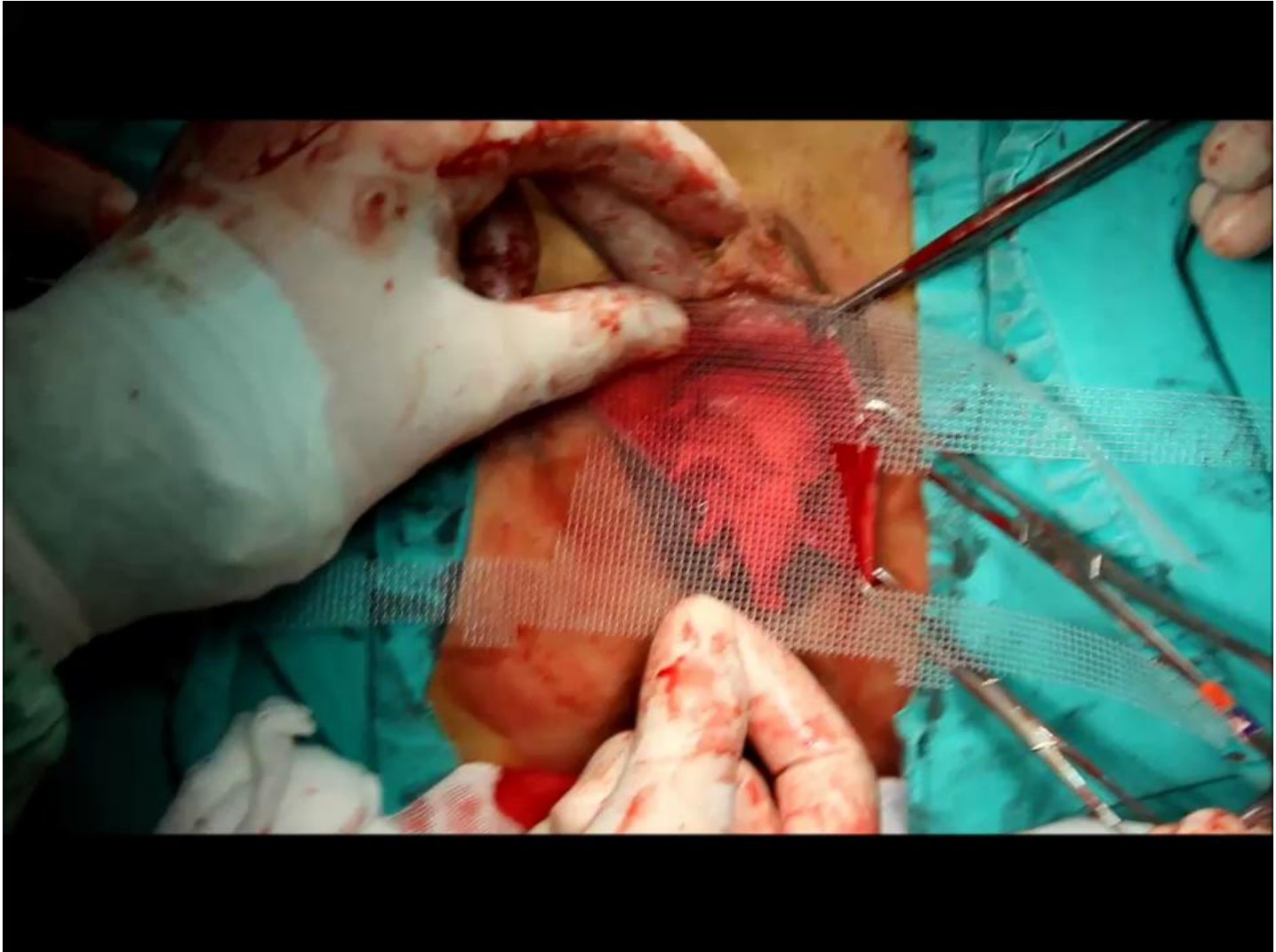


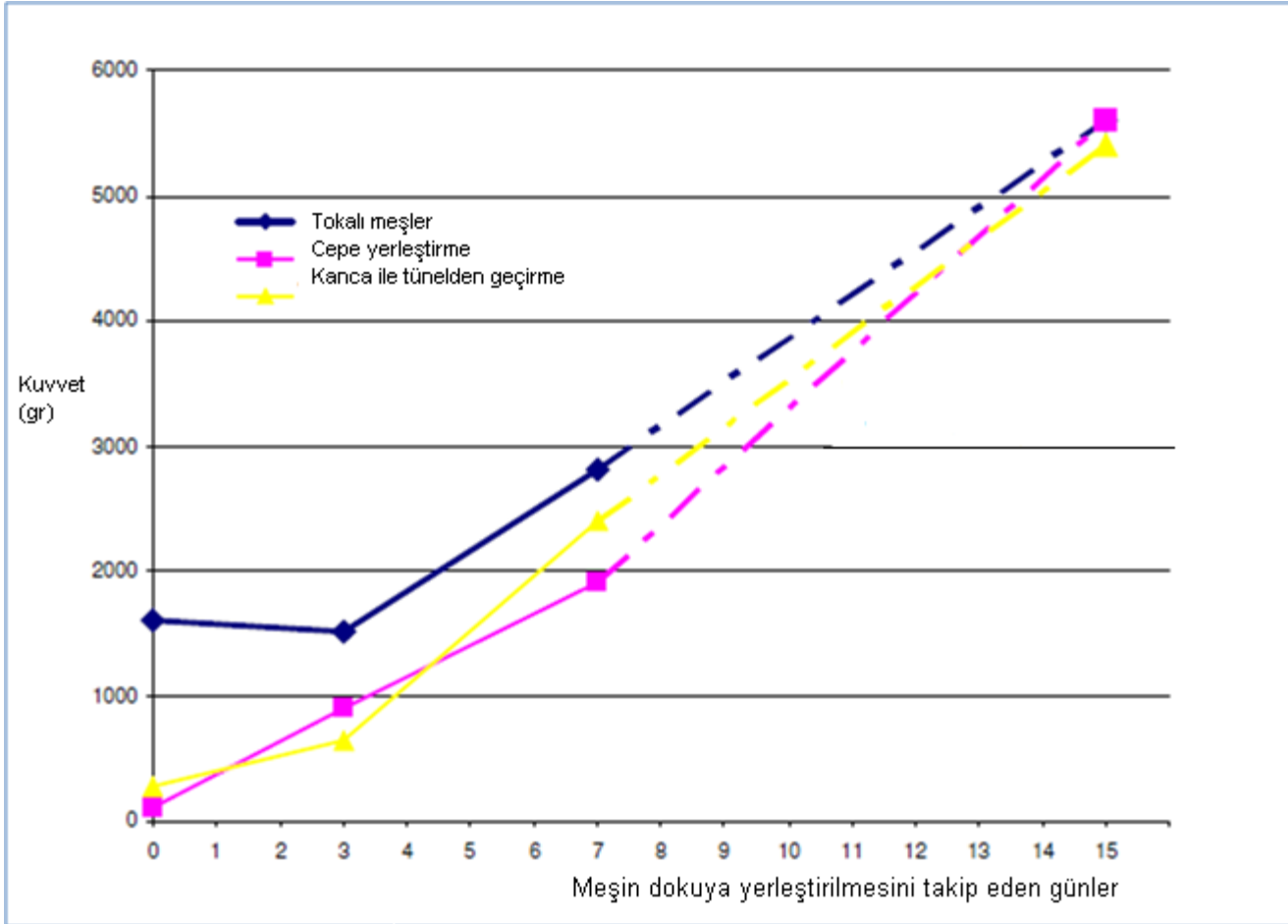


- Length 14 mm
- Width 1.4 mm
- Medical stainless steel
- Absorbable

l-laktid, glikolid, ve trimetilen karbonat

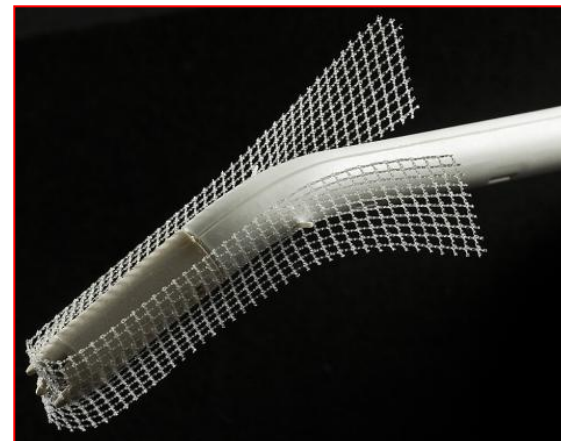
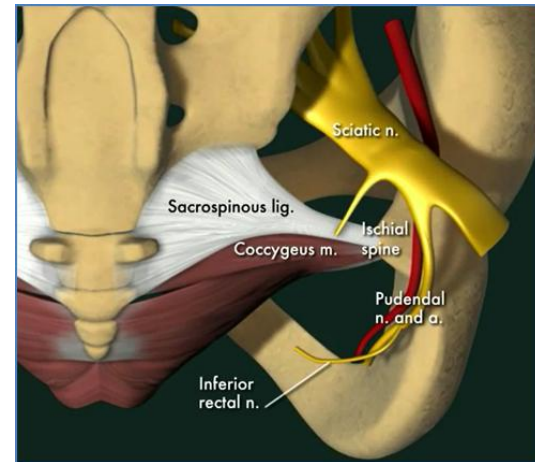






Meshes with fasteners

1. Shallow penetration
2. Retrievability
3. Pull-out force
4. Optimal mesh fixation
5. Attachment to any soft tissue
6. Ability to apply to any type of mesh
7. MRI Compatibility



Literature

IUJ VIDEO

ARTICLE

different

162-3

Cystocele repair with single-incision, trocarless mesh system
Naama Marcus-Braun • Peter von Theobald

Int Urogynecol J (2014) 25:285–287

**Mesh
deployment**

Menachem Alcalay • Miron Livneh •
Yariv Siman Tov • Eitan Hod

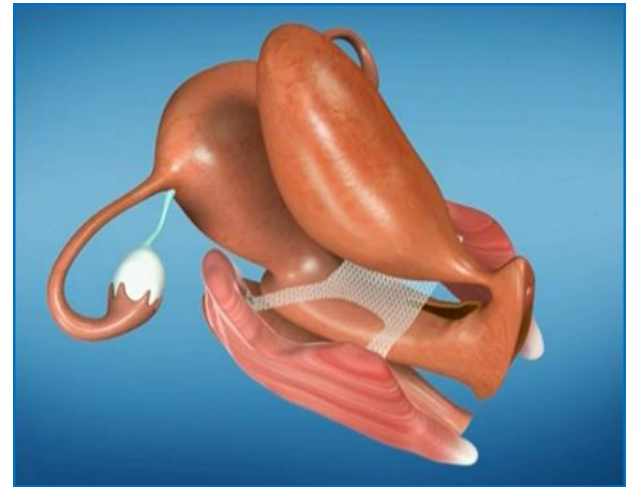
Summary of the studies...

- 110 cases
 - ✓ 19 anterior repair
 - ✓ 31 posterior repair
 - ✓ 60 combined repair
 - Total 170 mesh kits
 - Mean follow up 12 months(ort. 3-26 onths)
 - 2cases of erosion
 - ✓ < 1 cm (1.3%)
 - ✓ Asymptomatic
 - ✓ Local oestrogen treatment
 - 2 cases of de novo SUI (1.8%)
 - 3 cases of dysparenuia (2.7%)
-
- Perfect anatomic success 85%
 - Acceptable healing 12%
 - Reoperation 3%



Conclusion

- Vaginal mesh for POP repair has the potential for reducing prolapse recurrence
- We can still improve
 - our surgical technique
 - The meshes





Stay healthy...