

**Center for Minimal Access  
Surgery in Gynaecology**

**Department of  
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**Hospital Sachsenhausen  
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Academic Teaching Hospital  
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# **Tips & Tricks Part III Ectopic fibroids after Morcellation**

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Head of Department**

**Hysterectomy Masterclass  
ESI Hamburg 17<sup>th</sup> to 18<sup>th</sup> April 2013**



**Part I      Hysterectomy**  
the big and the difficult uterus

**Part II     Myomectomy**  
no limits ?

**Part III    Ectopic fibroids**  
Problems due to morcellation



# **Hazards of morcellation: myoma remnants, endometriosis and malignancy**

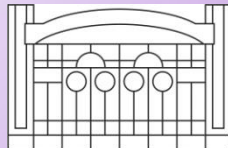
**A.Salfelder**

**A.Gallinat, C.P. Möller, W. Nugent, E. Krueger, A. Nugent, P. Biel,**

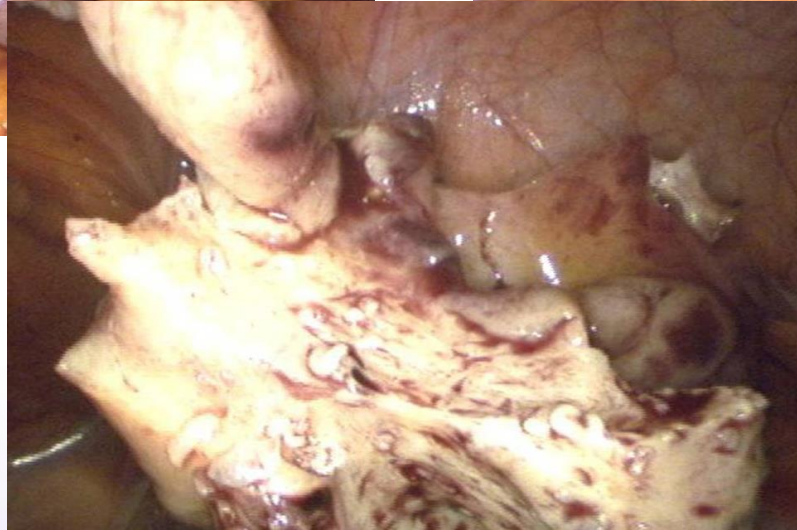
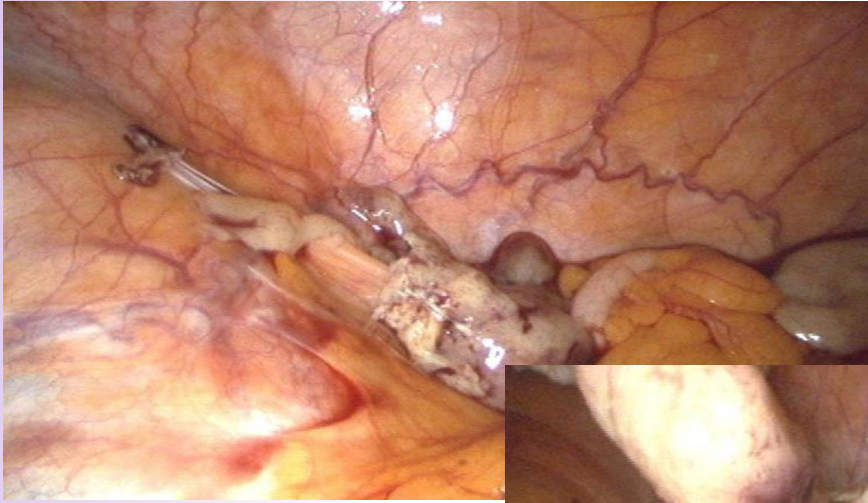
**S. Jürgens, O. Buchweitz, C. Bormann**

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# Hazards of Morcellation: Myoma Remnants, Endometriosis and Malignancy



# Hazards of Morcellation: Myoma Remnants, Endometriosis and Malignancy

## Five case reports:

- 2 cases of myoma remnants (port-site, peritoneal cavity) 10 months and 5 years after LSH
- 1 case of myoma remnants in the peritoneal cavity 6 years after laparoscopic myomectomy
- 1 case of an endometriotic nodule located in the right port-site 6 weeks after LSH
- 1 case of an unexpected leiomyosarcoma after morcellation and LSH

## Laparoscopic subtotal hysterectomy (10)

Donnez<sup>\*)</sup> (2007) Hilger (2006) Hutchins  
(1998)

## Laparoscopic myomectomy (6)

Paul (2006) Takeda (2007) Epstein (2009)  
Kumar (2008) Leung (2009) Miyake (2009)

## Laparoscopic total hysterectomy (1)

La Coursiere et al.(2005)

<sup>\*)</sup> 8/1405 LASH (0.57%) nach 2-9 Jahren,  
2-8 cm, histologisch Adenomyosis

### Risiken bei der laparoskopischen Morcellation: Uterus-(Myom-)Residuen, Endometriose und maligne Befunde – Diskussion anhand von 5 Kasuistiken

Morcellation-Associated Morbidity after Laparoscopic Myomectomy and Hysterectomy –  
Five Case Reports of Parasitic Myomas, Endometriosis and Unexpected Malignancy

#### Autoren

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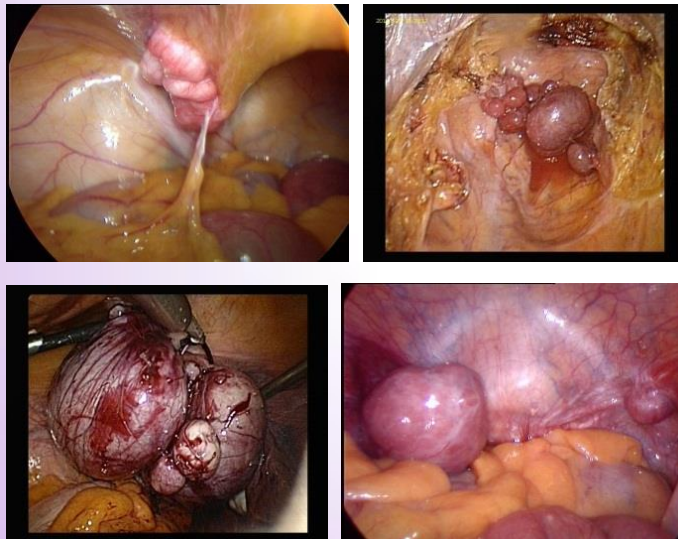


## 12 reported cases of ectopic fibroids after morcellation

8 Myomectomy, 2 SLH, 1 VH  
7 (own clinic) + 5 (other clinics)

1 Implantation endometrial sarcoma of the stroma

1 Implantation leiomyosarcoma



**Estimated number of unreported cases:**

**≥ 5000 morcellation**

**3100 laparoscopic hysterectomies**

**3600 laparoscopic myomectomy**

## Morice P et al. (2003)

Prognostic value of initial surgical procedure for patients with uterine sarcoma: analysis of 123 patients (34 with morcellation)

Recurrence rate after 3 months in the morcellation group was higher (8,82 vs. 3,66%). No difference after 10 months.

## Einstein et al (2008)

... 17 Patients underwent supercervical hysterectomy or uterine morcellation for presumed benign uterine disease (88% Stage I, 12% Stage II). 2/13 were upstaged by secondary surgery (LMS). 10/11 patients whose stage was confirmed by secondary surgery remained disease free. None of the patients ... without morcellation were upstaged.

Patients who undergo completion surgery with restaging and are not upstaged appear to have a good prognosis.





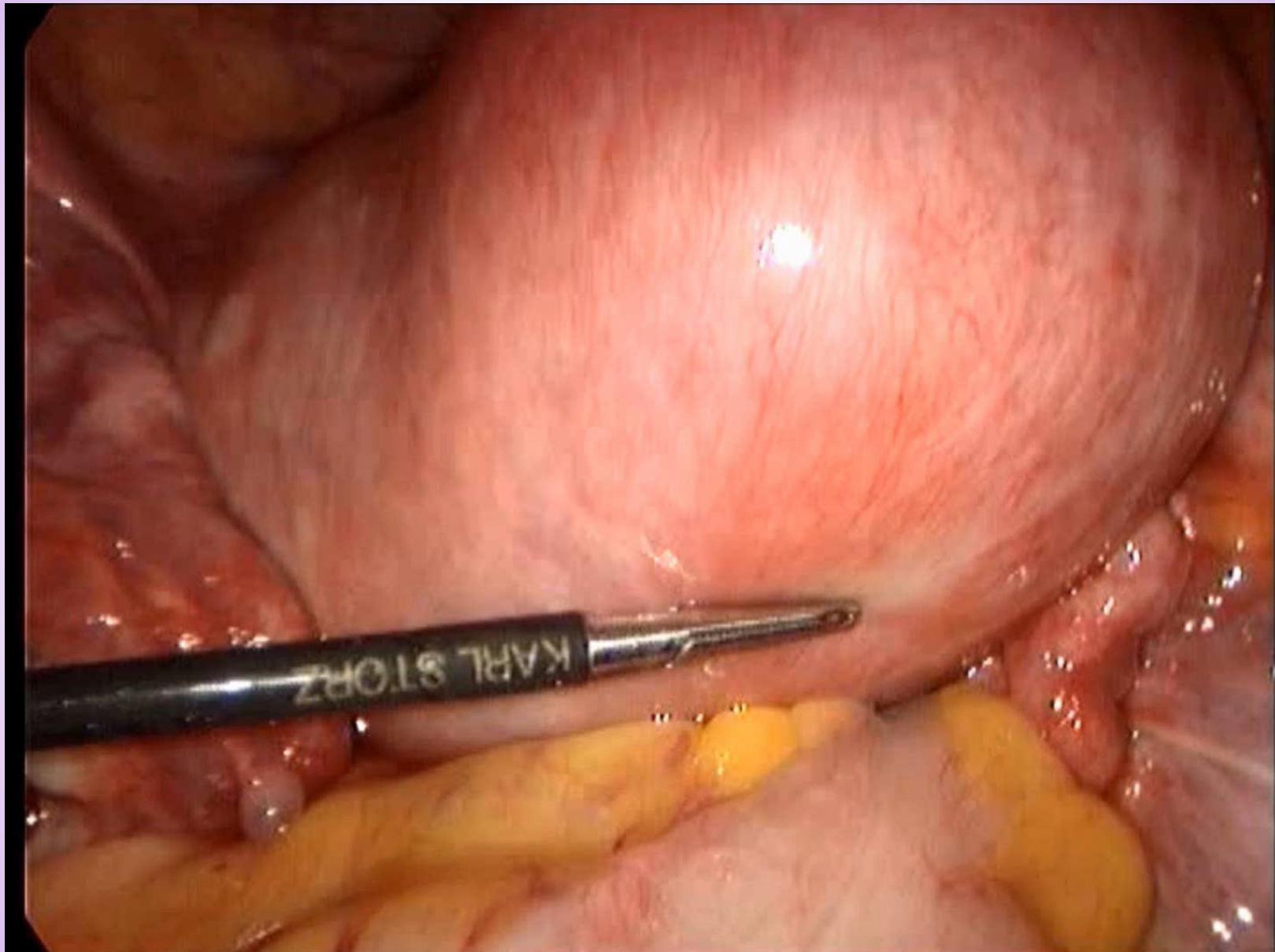
# **Hazards of Morcellation: Myoma Remnants, Endometriosis and Malignancy**

## **Conclusion**

Careful attention must be paid during and after morcellation in order to ensure that even small pieces of myoma and endometrium have been removed. Unprotected removal of myoma pieces should be avoided.

- Before surgery:** define the risks – in case of  
suspekt Fibroids: MRT!  
*(rapid growth, structure, pain)*
- Morcellement:** adequate morcellator + handling  
*(sharp, adequate size, tangential cutting)*
- Rinsing:** abdominal cleaning/rinsing topdown  
*(including the trocar!)*
- Malignancy:** Second look laparoscopy after 3-6 month  
*(if necessary peritoneal debulking)*





# The end



## Thank you!

