

Joachim Conze , Munich



#### **Financial Disclosures**

#### no conflict of interest



HOME

DER LEISTENBRUCH

BAUCHDECKENBRUCH

HERNIENZENTRUM

ÄRZTETEAM

PRESSE

**FOTOGALERIE** 

KONTAKT



HERNIENZENTRUM
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#### Leistenbruch - Bauchdeckenbruch

#### HERNIENZENTRUM MÜNCHEN-LONDON

Seit über zwei Jahren besucht Frau Dr. Muschaweck regelmäßig das nahe dem Regent's Park gelegene PLATINUM MEDICAL CENTRE (PMC) des WELLINGTON HOSPITALs in London.

In dieser modernsten Einrichtung Englands für tageschirurgische Patienten werden im Rahmen der "clinics" genannten Leistenbruch-Sprechstunde Patienten untersucht und bei Bedarf am nächsten Tag im 4 OG des PMC operiert.

Seit Mitte des letzten Jahres besucht Frau Dr. Muschaweck ebenfalls regelmäßig "St. George's Park", das in

#### Warum wir die Spezialisten für Ihren Leistenbruch -Bauchwandbruch (Leistenhernie - Bauchwandhernie) sind:

- wir haben Europas erstes und einziges ausschließlich auf Hernienchirurgie (Leistenbruch und Bauchwandbruch) spezialisiertes Zentrum gegründet
- wir haben seit über 20 Jahren Erfahrung mit der operativen Versorgung von Leistenbruch und Bauchwandbrüchen
- wir haben mehr als 25.000 Leistenbrüche und Bauchwandbrüche erfolgreich operiert
- wir operieren in schonender örtlicher Betäubung, auf Wunsch mit Dämmerschlaf, ohne Vollnarkose

Die Chirurgie der Leistenbruch und Bauchwandbrüche ist die Chirurgie des "Häufigen". Mit über 250.000 Eingriffen pro Jahr allein in Deutschland handelt es sich um die am häufigsten durchgeführte Operation.

Von uns entwickelte Verfahren wie die "Minimal-Repair" Technik ist speziell für Hochleistungssportler aus aller Welt geeignet. Weitere sichere und risikoarme offene netzfreie und Netzverfahren kommen je nach Befund individuellmaßgeschneidert zur Anwendung.



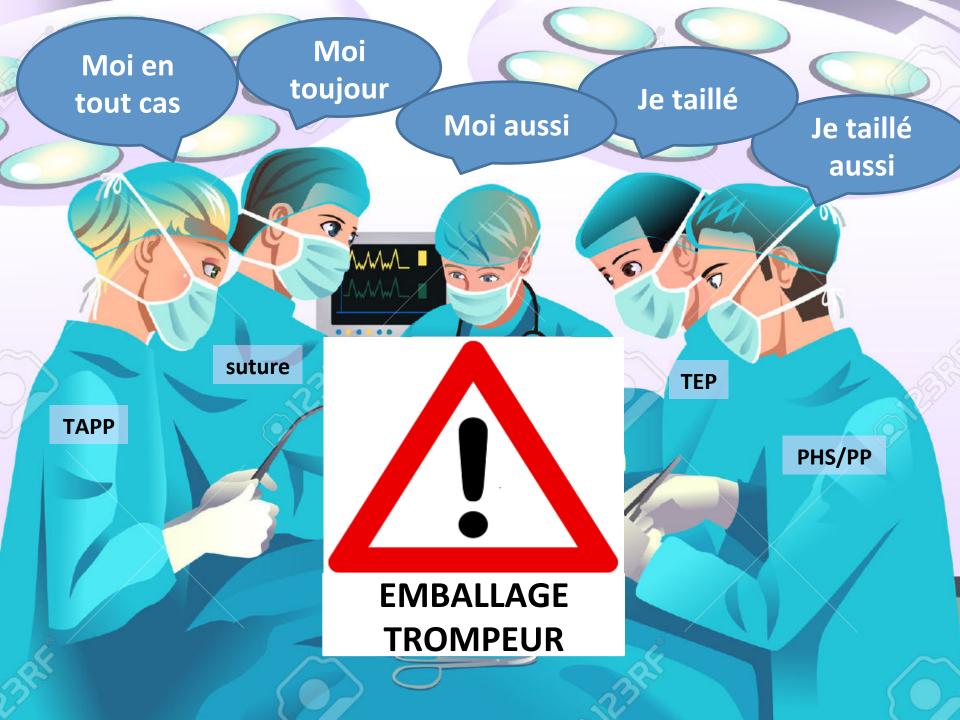
#### Aktuelles

#### Persönliche Beratung:

Wenn Sie einen persönlichen Beratungstermin oder Untersuchungstermin wünschen, könner Sie uns per Email oder unter der folgenden Nummer erreichen:

Tel.: +49 89 920 901 0





## Individualized Medicine:

for tailored prevention, diagnosis and therapy

## Personalized Medicine

..... is a medical model that separates patients into different groups - with medical decisions, practices, interventions and/or products being tailored to the individual patient based on their predicted response or risk of disease.

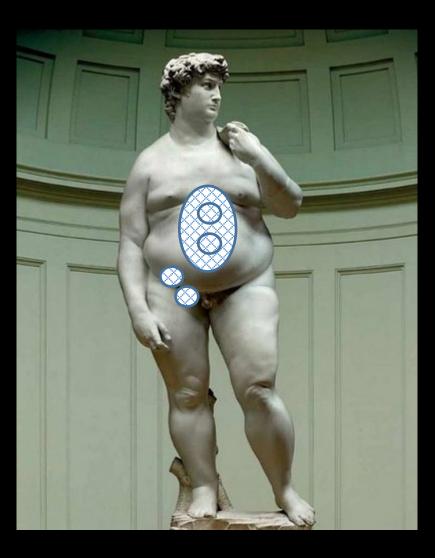
.....the tailoring of treatment to patients dates back at least to the time of Hippocrates, .... <u>provides a clear</u> evidence base on which to stratify patients.



## custom tailoring to fit!

general **agreement** among herniologists!





- hernia-size
- classification
- > risk profil
- herniosis
- > surgeons-preference
- > mesh material
- economy
- patients preference





#### EUROPEAN HERNIA SOCIETY

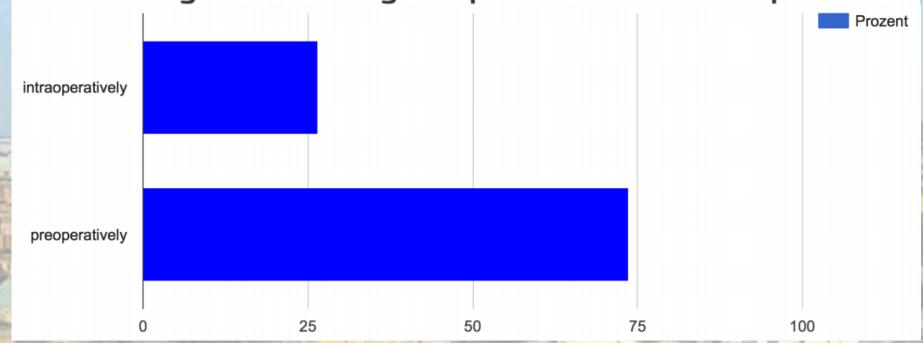
39th Annual International Congress

Prevention and Prophylaxis beyond Hernia Surgery

Congress President: René H. Fortelny May 24<sup>th</sup> - 27<sup>th</sup>, 2017 Vienna, Austria







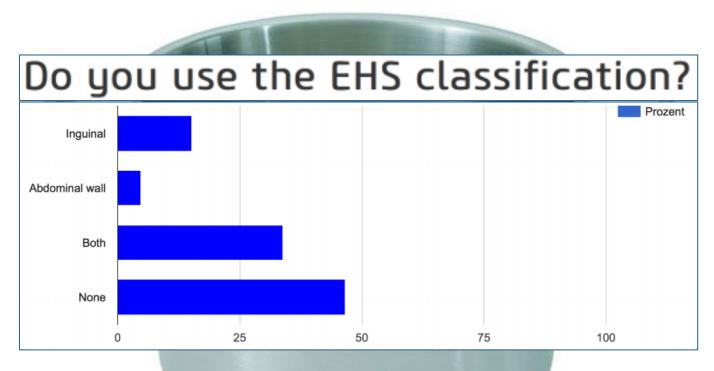
K. Junge · R. Rosch · U. Klinge · R. Schwab Ch. Peiper · M. Binnebösel · F. Schenten V. Schumpelick

# Risk factors related to recurrence in inguinal hernia repair: a retrospective analysis

- 10 yr-follow-up
- 229 Patients with 293 Shouldice-Repairs from 1992



#### Importance of Classification

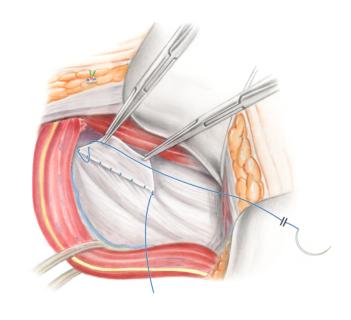


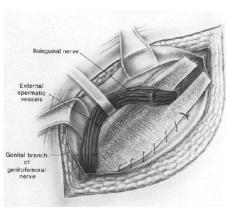


rnia classication: simple

## ",tailoring" in Herniasurgery?

When does the hernia need a suture?







When does the hernia need a mesh?

#### When does the hernia need a mesh ...

K. Junge · R. Rosch · U. Klinge · R. Schwab Ch. Peiper · M. Binnebösel · F. Schenten

V. Schumpelick

#### Risk factors related to recurrence in inguinal hernia repair: a retrospective analysis

Risc factor			Odds ratio	р
Туре	recurrent	vs. primary	3.4	0.01
Localisation	medial/combi	ined vs. lateral	1.7	0.27
Size	> 3 cm v	/s. < 3 cm	1.5	0.46
Age	> 50 years v	/s. < 50 years	9.9	0.01
Gender	Male vs	s. female	1.8	0.56
Family	affected /s.	not affected	3.9	0.05
Smoking	smoker /s.	nonsmoker	4.0	0.01

Hernia (2006)

#### When can a suture repair be considered ...

K. Junge · R. Rosch · U. Klinge · R. Schwab Ch. Peiper · M. Binnebösel · F. Schenten

V. Schumpelick

#### Risk factors related to recurrence in inguinal hernia repair: a retrospective analysis

Risc factor				Odds ratio	р
Туре	recurrent v	sprimary		3.4	0.01
Localisation	medial/combin	ed vs. late	ral	1.7	0.27
Size	> 3 cm vs. < 3 cm			1.5	0.46
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Hernia (2006)

#### Influence of Riskfactors

K. Junge · R. Rosch · U. Klinge · R. Schwab Ch. Peiper · M. Binnebösel · F. Schenten V. Schumpelick

Risk factors related to recurrence in inguinal hernia repair: a retrospective analysis

		Primary	Recurrent		
	0	1 (< 1.5 cm)	2 (1.5 – 3 cm)	3 (> 3 cm)	х
L		0%	0%	6.6%	
M		0%	4.6%	7.4%	
F					

#### Recurrence after Shouldice-Repair

10 yr follow-up

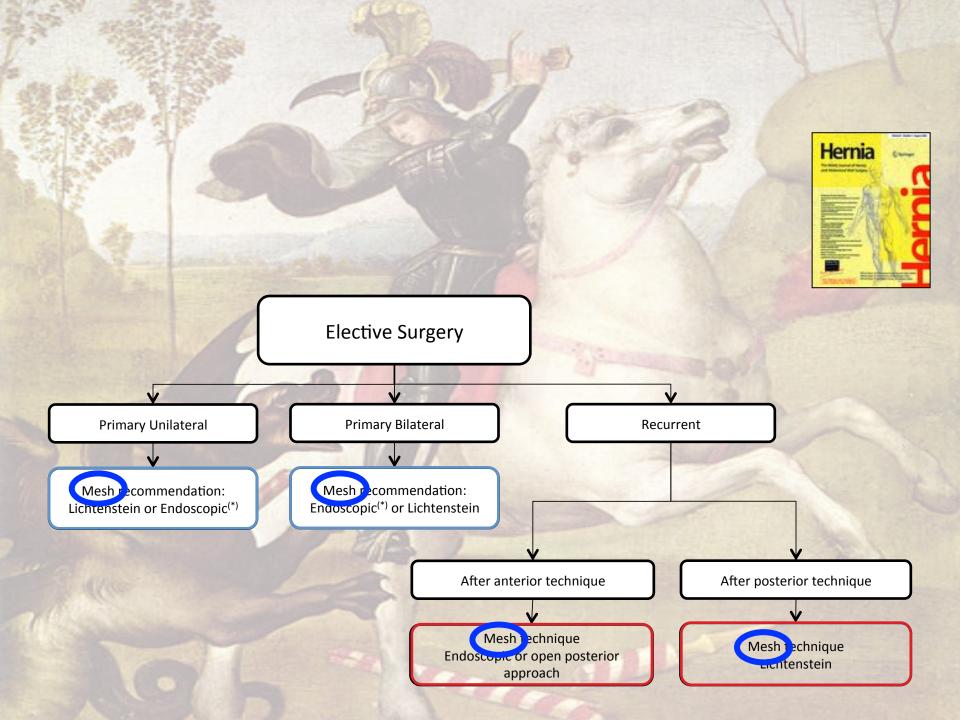
Hernia (2006)

## European Hernia Society guidelines on the treatment of inguinal hernia in adult patients

- M. P. Simons · T. Aufenacker · M. Bay-Nielsen · J. L. Bouillot ·
- G. Campanelli · J. Conze · D. de Lange · R. Fortelny · T. Heikkinen ·
- A. Kingsnorth · J. Kukleta · S. Morales-Conde · P. Nordin · V. Schumpelick ·
- S. Smedberg · M. Smietanski · G. Weber · M. Miserez

#### Levels of evidence:

- 1A Systematic review of randomised controlled trials (RCTs) with consistent results from individual (homogenous) studies.
- 1B RCTs of good quality.
- 2A Systematic review of cohort or case—control studies with consistent results from individual (homogenous) studies.
- 2B RCT of poorer quality or cohort or case-control studies.
- 2C Outcome studies, descriptive studies.
- 3 Cohort or case–control studies of low quality.
- 4 Expert opinion, generally accepted treatments.



#### **Chapter 6 Surgical Treatment of Inguinal Hernia**





# Shouldice technique versus other open techniques for inguinal hernia repair (Review)



Amato B, Moja L, Panico S, Persico G, Rispoli C, Rocco N, Moschetti I

2012 The Cochrane Collaboration



The Amato review contains 6 RCT that research Shouldice versus open mesh for inguinal hernia repair. 1565 patients are involved and the mesh repair was always a Lichtenstein technique.

		The state of the s					
Author	Year	Design	N	f-up	Rec %	Pain	Comments
Kingsnorth	1992	Shouldice Darn plication	322	30m	7pat 4pat		14 training surgeons, no classification
Tran	1992	Bassini-Kirschner Shouldice	72 70	12m	9.7 4.2		after 24 m 9/65=14,3 and 7/65=10.8 no classification
Kux	1994	Shouldice 4 rows Shouldice 2 rows Bassini absorb. Bassini non abs.	750	24m	3.6 2.3 12.8 8.7		no classification
Paul	1994	mod. Bassini Shouldice	125 119	3.3y	9.6 1.7*		direct hernia main factor for recurrence in Shouldice
LIMITATIO	NS						factor for the development of recurrence

no classification

		The state of the s					
Author	Year	Design	N	f-up	Rec %	Pain	Comments
Barth	1998	Shouldice Lichtenstein	75 75	Short term			short-term outcomes do not differ; no classification
McGillicuddy	1998	Shouldice Lichtenstein	337 371	60m	2 0.5		Classification only into direct/indirect  More direct hernia recurred
Danielsson	1999	Shouldice Lichtenstein	89 89	12m	10.1 0		no classification,
Arvidsson	2005	Shouldice TAPP	454 466	61m	6.7 6.6		Recurrence Rate range for individual surgeons 0-23%
							Recurrence in Shouldice 20:1 in favor direct hernia
Butters	2007	Shouldice	93	52m	8.1		
		Lichtenstein	93		1.3		no classification
LIMITATI	ONS	ТАРР	94		1.2		

## Shouldice vs. Lichtenstein

In the discussion the authors conclude that the review is flawed by:

- ➤ low quality of RCT,
- > non-blind outcome assessment,
- high lost to follow-up rates,
- > no patient-oriented outcomes
- potential bias concerning surgical technique.

Nevertheless the large number of patients and consistent results do make results reliable



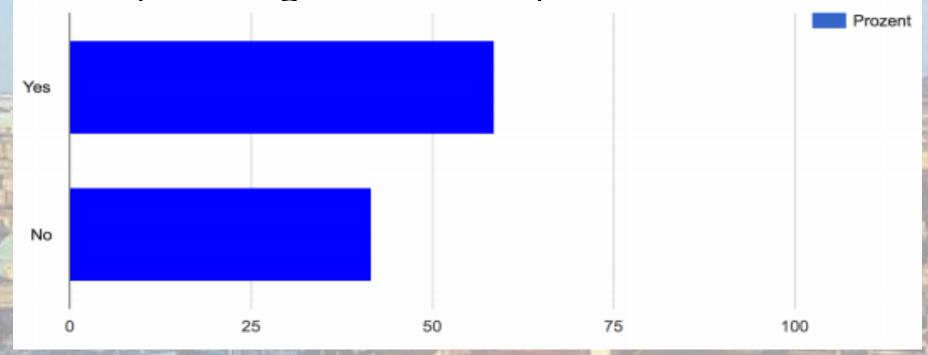
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Is there a place for tissue repair – meshfree techniques in inguinal hernia repair?



	Endosc	opic	Lichtens	stein		Odds Ratio	Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
Butters	1	81	1	76	3.6%	0.94 [0.06, 15.26]	•
Douek	2	122	3	120	8.6%	0.65 [0.11, 3.96]	
Eklund	14	594	7	659	33.6%	2.25 [0.90, 5.61]	<del>                                     </del>
Hallen	3	69	4	78	11.9%	0.84 [0.18, 3.90]	
Heikkinen	5	62	2	59	9.9%	2.50 [0.47, 13.42]	<del> </del>
Langeveld	10	264	7	231	29.1%	1.26 [0.47, 3.37]	<del></del>
Wright	3	149	0	107	3.2%	5.14 [0.26, 100.48]	-
Total (95% CI)		1341		1330	100.0%	1.53 [0.90, 2.59]	•
Total events	38		24				
Heterogeneity: Tau <sup>2</sup>	= 0.00; Chi <sup>2</sup>	= 3.37,	df = 6 (P =	= 0.76);	$I^2 = 0\%$		
Test for overall effect	: Z = 1.56 (F	P = 0.12	)				0.1 0.2 0.5 1 2 5 10
			,				Favours Endoscopic Favours Lichtenstein

#### **Guide**·line

A **guideline** is a statement by which to determine a course of action. A guideline aims to streamline particular processes according to a set routine or sound practice. By definition, following a guideline is never mandatory. Guidelines are not binding and are not enforced

# Update with level 1 studies of the European Hernia Society on the treatment of inguinal hernia in adult patients

- M. Miserez · E. Peeters · T. Aufenacker · J. L. Bouillot · G. Campanelli ·
- J. Conze · R. Fortelny · T. Heikkinen · L. N. Jorgensen · J. Kukleta ·
- S. Morales-Conde · P. Nordin · V. Schumpelick · S. Smedberg ·
- M. Smietanski · G. Weber · M. P. Simons

## Dog-ma

The doctrine with claim of absolut validity



# IT'S ALL IN THE TAILORING

intra-operative "tailoring" of mesh necessity in dependancy of the classification

.... possible only in open procedures!

pre-operative "tailoring" of the surgical approach is independent from hernia classification

## "It is just a hernia"

- Misconception of the anatomy and physiology of the abdominal wall
- > Misconception of the complexity of repair
- Misconception of the learning curve
- Misconception of surgical results!
- Misconception of the consequences for the patient!

Why "Tailorir

- > CAVE Monocult
- Not every herni
- Not every mesh
- Importance of surgical expertise is highly underestimated
- ➤ Patients preference for a mesh free procedure





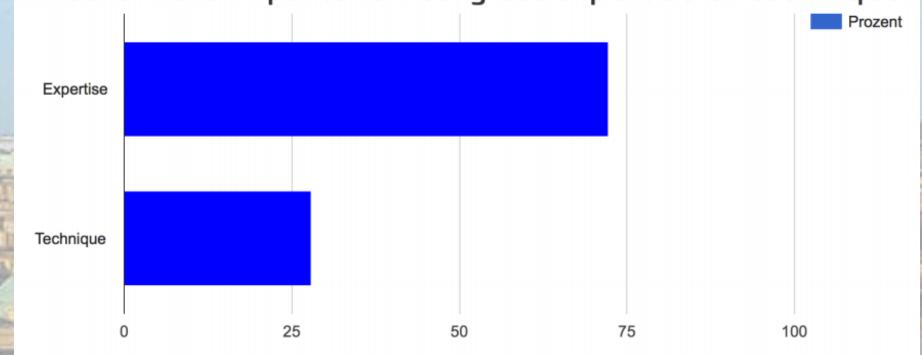
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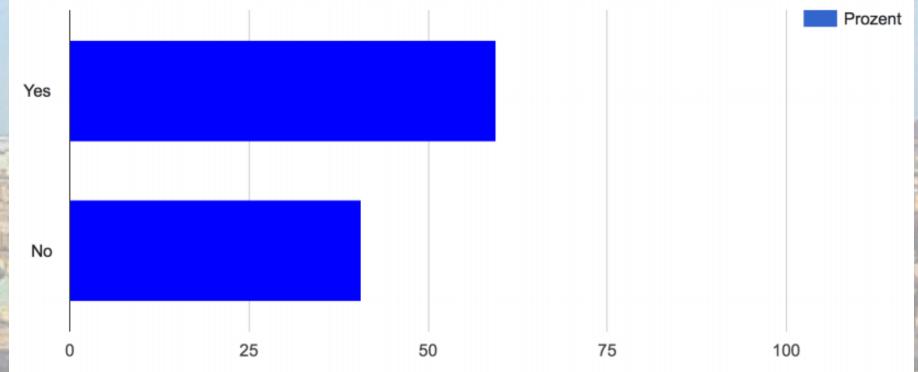
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## Should herniology become a speciality?



- > Tissue repair has become a rarity
- Local anaesthesia has become a rarity
- > Teaching of suture repair has become a rarity

# We are far away from "tailoring" in hernia surgery!!

