

Ankle Arthrodesis vs. Arthropasty

Indicate Disorders of the Foot

Diagnosis and Management

September 9th, 2011

Foot and Ankle Center Vienna



316 Foot and Ankle Symposium Artiritic Divorders of the Foot and Ankle Diagnosis and Management



Friday, Saptamber 9th, 2011 Auditorium Balgriet University Hospity uniklinik

#### **►Introduction**

Pat & Meths
Results
Discussion

Conclusions



## Ankle arthrodesis vs. Arthroplasty





Ankle arthrodesis was for many years the gold standard forankle arthritis

310 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgrid University Hospital Uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions

## **\***

## Ankle arthrodesis vs. Arthroplasty

## How difficult is a revision of a failed TAA?



Jim Nunley



"I tell my patients that at some point an oil change will be necessary"



Introduction Pat & Meths Results Discussion Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

posium



September 9th,



3rd Foot and Ankle Symposium Artistic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September V<sup>III</sup>, 2011 Auditorium Balgriel University Hospita Uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions

## Ankle arthrodesis vs. Arthroplasty

61 year old patient



1 y post OP pain

September 9th, 201

2 y after first change: pain



3<sup>rd</sup> Foot and Ankle Symposium Article: Disorders of the Foot and Ankle Diagnosis and Management

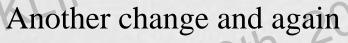


Friday, September 9th, 2011 Auditorium Balgirot University Heaptu uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions









Next surgery more pain



pain

319 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Indey, September P. 7011
Auditorian Related University Housest

uniklinik

Finder Titno

OSG

Hohlfuß

Plattful

Introduction

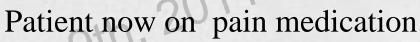
Pat & Meths

Results Revisionen Discussion

Conclusions









310 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet University Hosp uniklinik balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions



## Ankle arthrodesis vs. Arthroplasty



Femoral head + nail

posium







#### **▶**Introduction

Pat & Meths

Results

**Discussion** 

Conclusions

### **Ankle arthrodesis vs. Arthroplasty**

Orthopäde 2006 - 35:533-545

B. Hintermann - V. Valderrabano - M. Knupp - M. Horisberger Orthopädische Universitätsklinik, Universitätsspital Basel, Basel

## Sprunger Spr Sprunggelenkprothese

Kurz- und mittelfristige Erfahrungen

271 patients

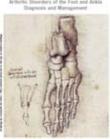
Av. age 58,4 years

FU 36,1 months (12 - 64)

93 % excellent and good

September 9th, 2011





Introduction Pat & Meths Results **Discussion Conclusions** 

## **Ankle arthrodesis vs. Arthroplasty**



Contents lists available at ScienceDirect

### The Journal of Foot & Ankle Surgery

journal homepage: www.jfas.org

Comparative Study of the Quality of Life Between Arthrodesis and Total Arthroplasty Substitution of the Ankle

Luis Esparragoza, MD 1, Carlos Vidal, PhD 1, Javier Vaquero, PhD 2

The Journal of Foot and Ankle Surgery 50 (2011) 383-387

Prospective comparative study 16 Arthrodesis vs. 14 TAA **AOFAS SCALE** SF-36

"Based on our results.....the arthroplasty produces better results than the fusion



319 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management

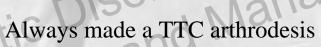


Friday, Saptander 9th, 2011 Auditorium Balgrid University Hospits uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions

## Ankle arthrodesis vs. Arthroplasty





2 talar necrosis

50% complications



AES prosthesis

Taken from the market

30% complications



# September 2011 September Study



#### ► Introduction

Pat & Meths Results

Discussion

Conclusions

## Ankle arthrodesis vs. Arthroplasty

## and Ankle Symposium Our own study:

ders of the Foot and Ankle retrospective differ Aim of this retrospective study was to determine if there is any difference in functional outcome with biomechanicly objective assessment tools participation in sports and recreational activities in patients who underwent ankle arthrodesis and TAA respectively in a single surgeon population. September 9th, 20





#### **►Introduction**

Pat & Meths

Results

**Discussion** 

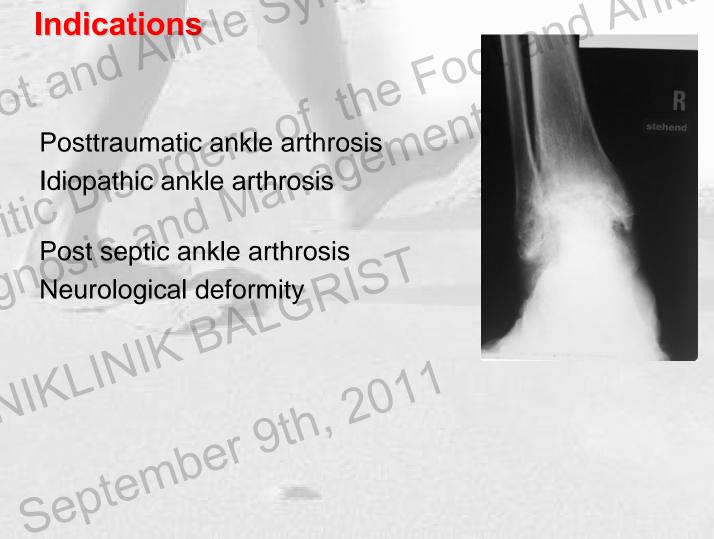
Conclusions

## **Ankle arthrodesis vs. Arthroplasty**

## Indications le Symposium bot and

Posttraumatic ankle arthrosis
Idiopathic ankle arthrosis

Post septic ankle arthrosis Neurological deformity





310 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet University Hospit Lanik firnik

Introduction
Pat & Meths
Results
Discussion

Conclusions

## Ankle arthrodesis vs. Arthroplasty

## Patients & Methods Ankle

Arthrodesis	demograhics	TAR
21	Number of patients	28
64 ± 10.8 (40 - 84)	Age	56 ± 14.0 (34 - 85)
169 ± 7.6	Height (cm)	171 ± 9.4
80.32 ± 10.66	Weight (kg)	80.67 ± 10.84
10:12	Gender (m:f)	14:14

September 9th, 2011











Introduction

▶Pat & Meths

Results

**Discussion** 

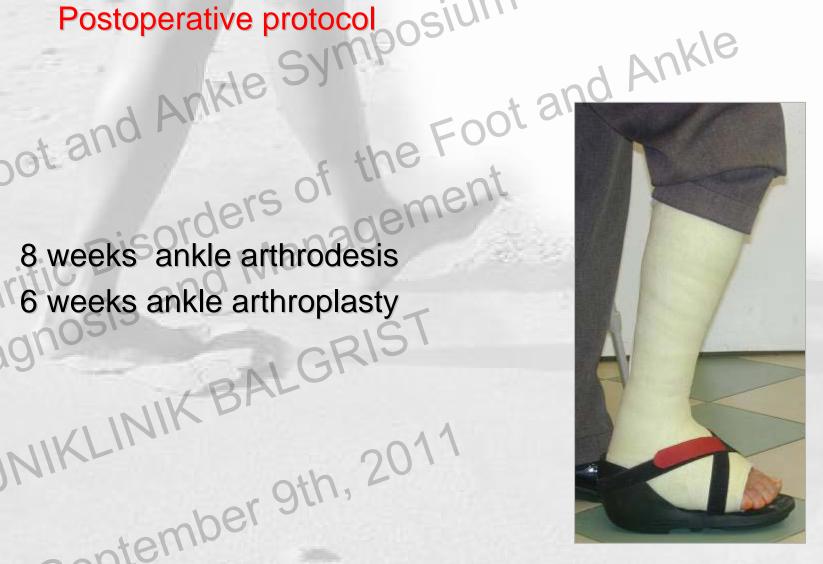
Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

Postoperative protocol osium oot and Ankle Symi

September 9th, 2011





Introduction

▶Pat & Meths

Results

**Discussion** 

**Conclusions** 



### **Ankle arthrodesis vs. Arthroplasty**

he Foot and Ankle

# Investigative tools mposium

- **AOFAS Score**
- Sports activities
- Radiographic evaluation
- Pedobarography

September 9th, 2011

Gait analysis

319 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet University Hospity Local Dell'Invite

Introduction

▶Pat & Meths

Results

Discussion

lateral:

ankle

Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

Radiological examination sium

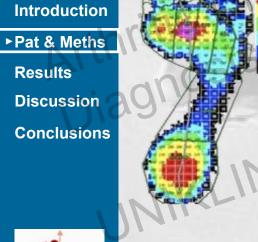
Radiographs: Foot weightbearing and Ankle







Results



## Ankle arthrodesis vs. Arthroplasty

At f/u the AOFAS hindfoot score<sup>1</sup>, patient's satisfaction were evaluated.

Additionly, plantar pressure distribution was assessed and patients were asked about their participation in sports and recreational activities before the onset of restricting symptoms and at f/u

Plantar pressure distribution assessment was performed using the emed at platform (Novel GmbH Munich)

Foot was divided into following regions of interest:

- Total object
- •Toes 1, 2 and 3 5
- Metatarsal heads 1, 2, 3,
- Midfoot
- Hindfoot

and peak pressure as well as contact time have been calculated <sup>1</sup>Kitaoka et al., Foot Ankle Int. 94





Introduction

▶Pat & Meths

Results

Discussion

Conclusions



Gait analysis



Measurement of hindfoot angle





Introduction Pat & Meths Results **Discussion Conclusions** 

## **Ankle arthrodesis vs. Arthroplasty**

atand	RESULTS Ankle Egot and		
	Arthrodesis	demograhics	TAR
	21/21	Available for the study	21/28
	and N	Lost patient	3 arthrodesis 2 revisions 2 did not show up
an0513	29 ± 22.7	F/u (months)	36 ± 18.8

September 9th, 2011











Introduction Pat & Meths Results Discussion Conclusions









6 weeks



After revision



Introduction Pat & Meths

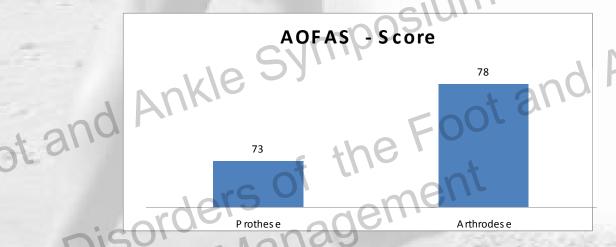
**▶**Results

Discussion Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

### **AOFAS** score



## **Patient satisfaction**



319 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Finday, September 9<sup>th</sup>, 2011 Auditumen Balgriet University House uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions













3rd Foot and Ankle Symposium Artistic Disorders of the Foot and Ankle Diagnosis and Management

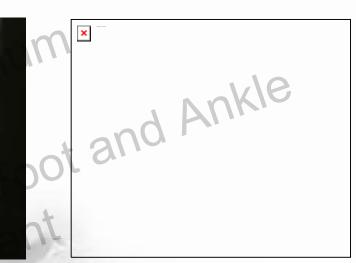


Authorian Balgrid University Hospi uniklinik balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions







84 AOFAS points







Introduction Pat & Meths Results Discussion







Introduction Pat & Meths

**▶**Results

Discussion Conclusions



## Ankle arthrodesis vs. Arthroplasty

## Radiographic evaluation



1 Ankle Tibio-talar angle:

(82 - 100)

No pseudarthrosis



Introduction Pat & Meths

**▶**Results

Discussion

Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

## Radiographic evaluation

Tibia: nd Ankle St

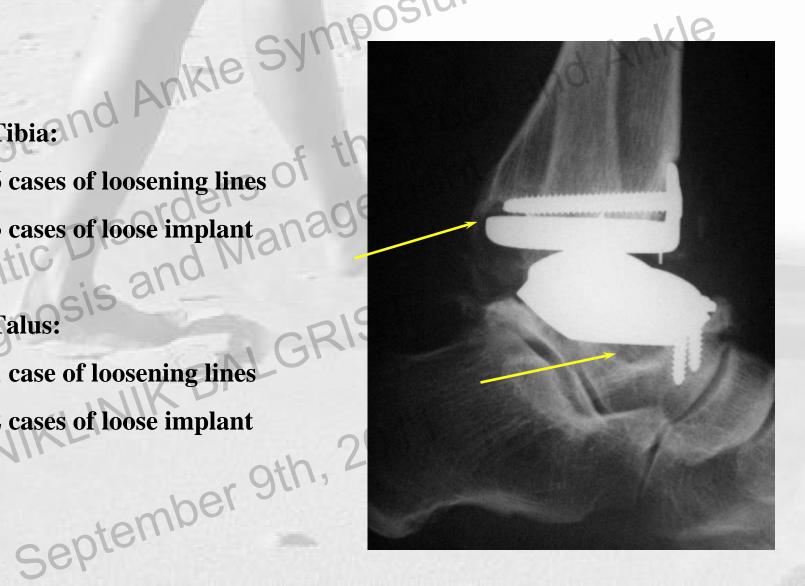
6 cases of loosening lines

3 cases of loose implant

Talus:

1 case of loosening lines

2 cases of loose implant





Introduction Pat & Meths

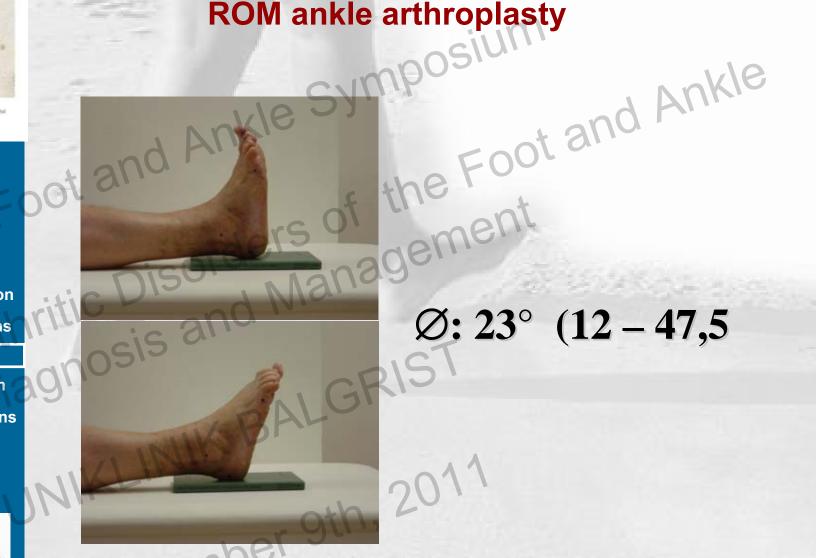
**▶**Results

Discussion Conclusions



### **Ankle arthrodesis vs. Arthroplasty**

**ROM** ankle arthroplasty



 $\emptyset: 23^{\circ} (12-47,5)$ 

3rd Foot and Ankle Symposium Articitic Disorders of the Foot and Ankle Diagnosis and Monagement



Friday, September 9th, 2011
Auditumen Related University Hospita

uniklinik
balarist

Introduction
Pat & Meths
Results
Discussion
Conclusions



## Ankle arthrodesis vs. Arthroplasty



Post opnd Ankle





5 y FU AOFAS 91 points

3rd Foot and Ankle Symposium Articles Disorders of the Foot and Ankle Diseases and Management



Friday, September 9<sup>th</sup>, 2011 Auditorium Balgriet University Hospits

uniklinik balgrist

Introduction

Pat & Meths

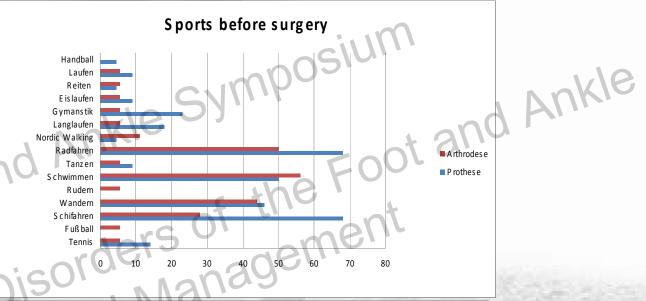
**▶**Results

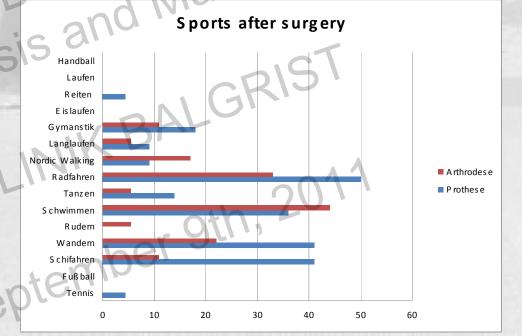
Discussion

Conclusions



## Ankle arthrodesis vs. Arthroplasty Sports activities







Introduction Pat & Meths

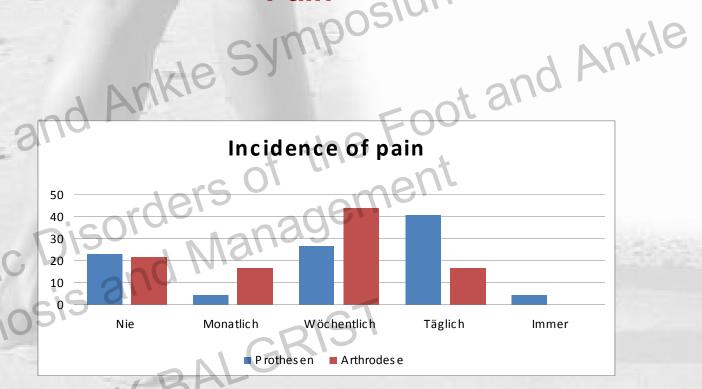
**▶**Results

**Discussion** 

Conclusions

## **Ankle arthrodesis vs. Arthroplasty**





September 9th, 2011





Introduction Pat & Meths Results Discussion Conclusions



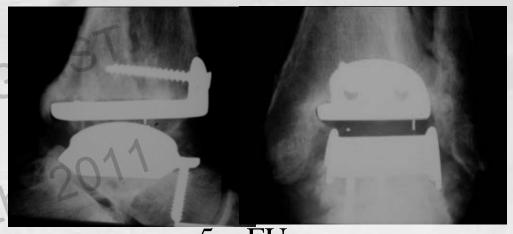






6 weeks





5 y FU AOFAS: 78 points



3rd Foot and Ankle Symposium Artistic Disorders of the Foot and Arkle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet University Hospity

Introduction

Pat & Meths

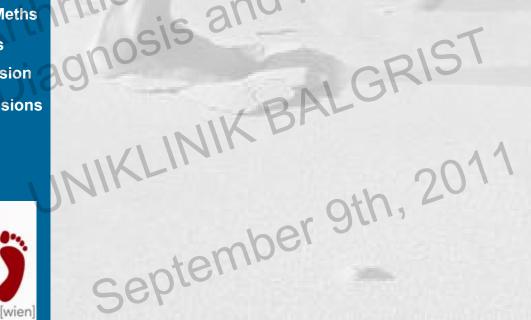
Results

**Discussion** 

Conclusions



What is the evidence in the itic Disorder Sliterature?





379 Foot and Ankle Symposium Article: Disorders of the Foot and Ankle Diagnosis and Management



Friday, Suptamber 9th, 2011 Auditorium Balgriet University House uniklinik

Introduction
Pat & Meths
Results
Discussion

**Conclusions** 



### **Ankle arthrodesis vs. Arthroplasty**

## **Advantage Endosprosthesis**

## Mobility (ROM maintained) Avoid der Subtalar und Talonavic. arthrosis

Jung HG, Parks BG, Nguyen A, Schon LC.: Effect of tibiotalar joint arthrodesis on adjacent tarsal joint pressure in a cadaver model. Foot Ankle Int. 28/1: 2007

Significant pressure after ankle fusion in the talonavicular and subtalar joint

## Short Rehabilitation Evolution of surgery

3rd Foot and Ankle Symposium Artistic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet University Hough uniklinik balarist

Introduction
Pat & Meths
Results
Discussion
Conclusions



### **Ankle arthrodesis vs. Arthroplasty**

## Arthrodesis

Ankle arthrodesis and its relationship to ipsilateral arthritis of the hind- and mid-foot

B. D. Sheridan, BSc(Hons), et al. and I. G. Winson, MBChB, FRCS, Journal of Bone and Joint Surgery - British Volume, Vol 88-B, Issue 2, 206-207.

70 Patientes / 71 Arthrodeses
All had adjacent arthroses

The presence of such changes may not be a consequence of this arthrodesis.



Coester C., Salzman et al.: Longterm Results of ankle arthrodeses for posttraumatic DJD. JBJS A -2001

23 patients, 22 y FU,

6/23 in correct position

**Ankle arthrodesis vs. Arthroplasty** 

Adjacent arthrosis in all cases

Pat & Meths Results **Discussion** 

Introduction

Conclusions







Introduction Pat & Meths Results **Discussion** 

Conclusions

## **Ankle arthrodesis vs. Arthroplasty**

# Results Transferarthrosis revision rate

SooHoo N.F., Zingmond D.S., Ko C.Y.: Comparison of reoperation rates following ankle arthrodeses and total ankle arthroplasty. JBJS 89(10): 2007

**Revision rate:** 

4705 Arthrodesis vs. zu 480 OSG endoprosthesis:

5:11% 1 year:

9:23% 5 year:

Risk: 1,5:2,49

310 Foot and Ankle Symposium Articitic Disorders of the Foot and Ankle Diagnosis and Management



Fitting, September 9th, 2011 bullturam Balgrid University Hospit, uniklinik

Introduction
Pat & Meths
Results
Discussion

Conclusions



## Ankle arthrodesis vs. Arthroplasty

# Intermediate and Long-Term Outcomes of Total Ankle Arthroplasty and Ankle Arthrodesis

A Systematic Review of the Literature

By S.L. Haddad, MD, J.C. Coetzee, MD, R. Estok, RN, BSN, K. Fahrbach, PhD, D. Banel, BA, and L. Nalysnyk, MD, MPH

Investigation performed at Illinois Bone and Joint Institute, Glenview, Illinois, and United BioSource Corporation, Medford, Massachusetts

THE JOURNAL OF BONE & JOINT SURGERY · JBJS.ORG VOLUME 89-A · NUMBER 9 · SEPTEMBER 2007

	OStudien aus 460 Publik. eta Analyse - Confidence Interval)	Arthrodese 39(n=1262)	Prothese 10(n=852)
A	OFAS	75,6	78,2
E	xcellent/good	31%/37%=68%	38%/30,5%=68,5%
Fa	air/poor	13%/13%=26%	5,5%/24%=29,5%
5/	10Jahre Survival	100%	78%/77%
R	evision 91	9% (Pseudoarthr.)	7% (Lockerung/Migration)
BI	KA 2 MOO.	5%	1%



Introduction Pat & Meths Results

**▶** Discussion

Conclusions



### **Ankle arthrodesis vs. Arthroplasty**

The Journal of Bone and Joint Surgery (American) 86:1172-1178 (2004) © 2004 The Journal of Bone and Joint Surgery, Inc.

# Complications and Failure After Total Ankle Arthroplasty

28% Revisions 1% Total Failures (8 Amputations, 25 arthrodeses)



Total Ankle Arthroplasty With the Agility Prosthesis: Clinical and Radiographic Evaluation Kopp FJ, Mihir MP, Deland JT Foot & Ankle Int., Vol. 27, No. 2, 2006

39% revisions 97% Survival rate ?????

85% loosening zones



Introduction Pat & Meths Results **Discussion** 

Conclusions



# **Ankle arthrodesis vs. Arthroplasty**

The Journal of Bone and Joint Surgery (American) \$5:1321-1329 (2003) © 2003 The Journal of Bone and Joint Surgery, Inc.

# Uncemented STAR Total Ankle Prostheses

Three to Eight-Year Follow-up of Fifty-one Consecutive Ankles

Thomas Anderson, MD, Fredrik Montgomery, MD, PhD and Åke Carlsson, MD, PhD

24% Revisionrate 14% looseing rate 12% not satisfied 24% painfree

September 9th, 2011

31<sup>d</sup> Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



Authorian Balgrid University House

Uniklinik

balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions



# Ankle arthrodesis vs. Arthroplasty

# Ankle fusion results

		CVI	ubo	510.		Ankle
rest		AUTOREN	JAHR	N	Pseudarthr.Rate	// · ·
	A An	Morgan et al	1985	101	5(5%)	
	of Sun.	Frey et al	1994	10,	41%	
	pot and Am	Chen et al	1996	42	1(2,5%)	
		Flamme et al	1997	25	5(20%)	
	ritic Disorc	Kitaoka et al	1998	19	3(16%)	
on	wie Diso.	Rowan et Davey	1998	33	2(6,7%)	4
าร	ritio an	Mann et al	1998	81	10(12%)	
[]	asis a	O'Brian et al	1999	17	3(18%)	
n	UNOS.	Taylor et al	1999	18	2(12%)	
ns	19	Anderson et al	2002	29	3(11%)	
IIS	XIII	Muckley et al	2003	110	11(10%)	
	ININ	Fuchs et al	2003	18	1(6%)	
	MIKLINIK	Trieb et al	2004	34	4(11,7%)	
1		Thomas et al	2006	26	0(0%)	
		Schuh et al	2011	20	0(0%)	



Introduction Pat & Meths Results Discussion Conclusions

# **Ankle arthrodesis vs. Arthroplasty**

# Fusions rate

	F	Fusionsrate Ankle		
ot ar	Mann (open)	PTS. 181		SION 88%
	Scranton (open)	25	12.0 wks	100%
itic,	Myerson (open)	16	14.5 wks	100%
gnos	Mann (scope)	21578	8.0 wks	91%
	Crosby (scope)	42	5.5 mo	74%
Se'	ptember 9th	,2011		





Introduction Pat & Meths Results Discussion Conclusions







### Ankle arthrodesis vs. Arthroplasty

Clin Orthop Relat Res (2011) 469:1721-1727 DOI 10.1007/s11999-011-1848-4

CLINICAL RESEARCH

the Foot and Ankle Is Total Ankle Arthroplasty A Cost-effective Alternative to Ankle Fusion?

Xan F. Courville MD, MS, Paul J. Hecht MD, Anna N. A. Tosteson ScD

Table 4. Results of cost-effectiveness analysis

Procedure	Average cost	Incremental cost (\$)	Average utility gained (QALY)	Incremental effectiveness (QALY)	ICER (\$/QALY)
	57900	131102	12.7		
TAA	\$28,000	\$20,200	14.4	1.70	\$11,800

TAA = total ankle arthroplasty; QALY = quality adjusted life-years; \$ = US dollars.

Incremental cost = increased cost of TAA over ankle fusion; Incremental effectiveness = increased utility of TAA over ankle fusion; ICER = incremental cost-effectiveness ratio.

Introduction

Pat & Meths

Results

Discussion

Conclusions



Despite more costly implants and longer FU, TAA remains a cost effective alternative to anklefusion in a 60 year old cohort

319 Foot and Ankle Symposium Artistic Disorders of the Foot and Arkle Diagnosis and Management



Friday, September 9th, 2011 Auditorium Balgriet (Intervity Hospit) Uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions



FOOT & ANKLE INTERNATIONAL. Copyright © 2010 by the American Orthopaedic Foot & Ankle Society DOI: 10.3113/FAI.2010.0563

Preference-Based Quality of Life of End-Stage Ankle Arthritis Treated with Arthroplasty or Arthrodesis

Gerard P. Slobogean, MD, MPH; Alastair Younger, MD, FRCSC; Kelly L. Apostle, MD; Carlo A. Marra, PharmD, PhD; Kevin Wing, MD, FRCSC; Murray Penner, MD, FRCSC; Tim Daniels, MD, FRCSC; Mark Glazebrook, PhD, MD, FRCSC Vancouver, Canada

Table 2: Mean Health State Values, SF-6D (95% CI)

O.	TAA	AA	
Baseline	0.67 (0.64–0.69)	0.66 (0.63–0.68)	
1 year	0.73 (0.71–0.76)	0.73 (0.70–0.76)	

TAA, Total ankle arthroplasty; AA, Ankle arthrodesis.







Introduction Pat & Meths Results Discussion Conclusions



# **Ankle arthrodesis vs. Arthroplasty**

Atomic bomb? ot and Ankle St





Introduction

Pat & Meths

Results

**Discussion** 

**Conclusions** 



d Foot and Ankle Symposium FAILURES????

titic Disorders of tic Disorders On Angle (1977) and JNIKLINIK BALGRIST

September 9th, 2011



316 Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



Inday, September P. 2011

beltomen Related (Several) Houses

uniklinik

Fin Bollgrist

OSG

Hohlfuß

Plattful

Introduction

Pat & Meths

Results Revisionen Discussion

Conclusions





Post OP picture in cast ,,OK"



316 Foot and Ankle Symposium Artisits: Disorders of the Foot and Ankle Diagnosis and Management



Authorize Balgrid (Investig Houstal
uniklinik

Einleitung

OSC

Hohlfuß

Plattful

Introduction

Pat & Meths

Results Revisionen Discussion

Conclusions





Nach 4 Wochen doch Revision mit Zement Post OP Bild im Gips

3rd Foot and Ankle Symposium Artinitic Disorders of the Foot and Ankle Diagnosis and Management



uniklinik Einlägistung

OSC

Hohlfuß

Plattful

Introduction

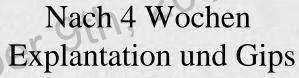
Pat & Meths

Results Revisionen Discussion

Conclusions









3rd Foot and Ankle Symposium Article: Disorders of the Foot and Ankle Diagnosis and Management



inder September 7 7211
attention Report (briefly)
uniklinik
Einlerinist

OSG

Hohlfuß

Plattful

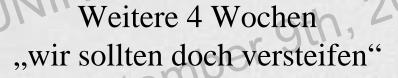
Introduction

Pat & Meths

Results Revisionen Discussion

Conclusions







Oh es gibt 2 Ebenen im RÖ



316 Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



uniklinik Finleriting

OSC

Hohlfuß

Plattful

Introduction

Pat & Meths

Results Revisionen Discussion

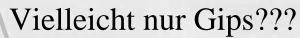
**Conclusions** 







Noch ein Versuch
September 9th, 20





3rd Foot and Ankle Symposium Artiritic Disorders of the Foot and Arkle Diagnosis and Management

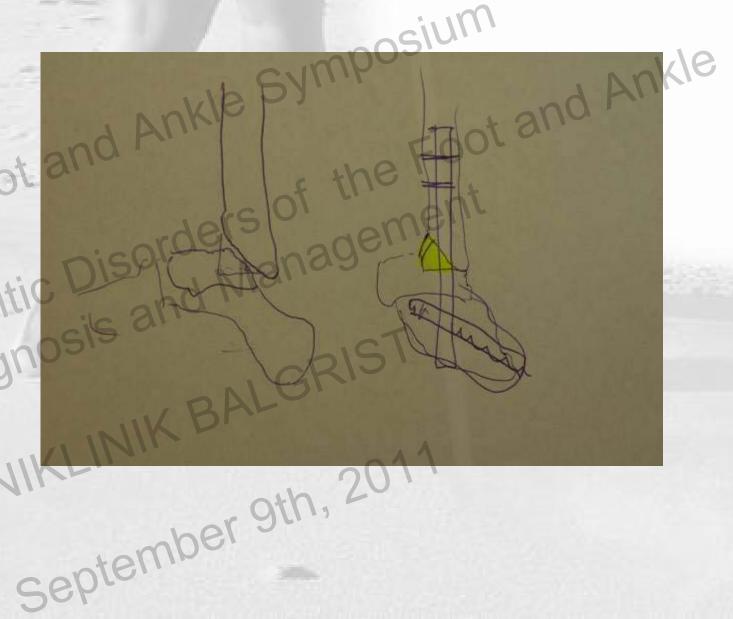


Friday, September 9<sup>th</sup>, 2011 Auditorium Balgriet University Hospital

uniklinik balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions





3rd Foot and Ankle Symposium Articlis: Disorders of the Foot and Ankle Diagnosis and Management



Index, September 1º 7011
Auditories Balgrid University Housest

uniklinik

Fin balgrist

OSG

Hohlfuß

Plattfuß

Introduction

Pat & Meths

Results Revisionen Discussion

Conclusions

# Ankle arthrodesis vs. Arthroplasty





Fibulainterponat, Hüftkopf, winkelstabile Verplattung



3rd Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



Friday, Saptamber 9th, 2011 Auditorium Balgriet University Hospits uniklinik

Introduction
Pat & Meths
Results
Discussion
Conclusions















After revision

31<sup>d</sup> Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



Friday, September 9th, 2011 Auditorium Balgriet University Hospita

uniklinik balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions



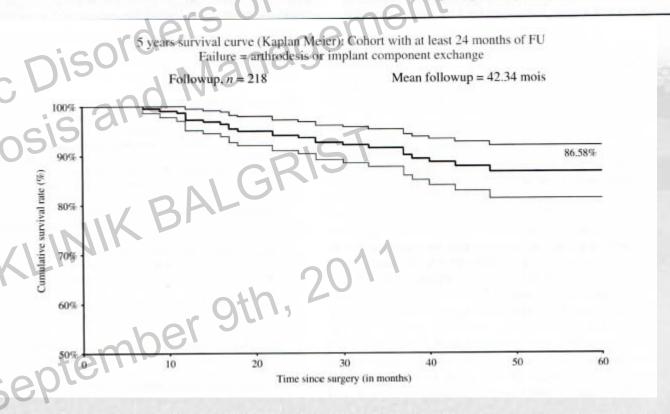
# Ankle arthrodesis vs. Arthroplasty

FOOT & ANKLE INTERNATIONAL Copyright © 2011 by the American Orthopaedic Foot & Ankle Society DOI: 10.3113/FAL2011.0755

# Prospective Study of a Cementless, Mobile-Bearing, Third Generation Total Ankle Prosthesis

Katja Schenk, MD<sup>1</sup>; Sebastian Lieske, MD<sup>1</sup>; Michael John, MD<sup>1</sup>; Konrad Franke, MD<sup>1</sup>; Stéphane Mouly, MD, PhD<sup>2</sup>; Emmanuel Lizee<sup>3</sup>; Wolfram Neumann, MD<sup>1</sup>

Magdeburg, Germany; Paris, France; Montbonnot, France



319 Foot and Ankle Symposium Artiritic Disorders of the Foot and Ankle Diagnosis and Management



Friday, September 9th, 2011
Authorizer Balgrid University House

uniklinik
balgrist

Introduction
Pat & Meths
Results
Discussion
Conclusions







63 years old



3 y FU AOFAS 90 points

319 Foot and Ankle Symposium Artistic Disorders of the Foot and Ankle Diagnosis and Monagement



Friday, September 9th, 2011 Auditorium Balgriet University Hospit, uniķlijniķ

Introduction
Pat & Meths
Results

**Discussion** 

**Conclusions** 



# Ankle arthrodesis vs. Arthroplasty

FOOT & ANKLE INTERNATIONAL.
Copyright © 2011 by the American Orthopaedic Foot & Ankle Society
DOI: 10.3113/FAL2011.0740

Revision Rates After Total Ankle Arthroplasty in Sample-Based Clinical Studies and National Registries

Gerold Labek, MD<sup>1</sup>; Hermann Klaus, MD<sup>2</sup>; Rainer Schlichtherle, MD<sup>1</sup>; Alexandra Williams, MD<sup>1</sup>; Mark Agreiter, MD<sup>1</sup>

Innsbruck, Austria; Wangen, Germann

and Ankle

"Publications by some research groups particularly by implant inventors Show deviation from the published outcome by others users and the registry data."

#### Balgrist 201'



Introduction Pat & Meths Results **Discussion** 

**▶** Conclusions



## **Ankle arthrodesis vs. Arthroplasty**

# Conclusion and Ankle

Comparison of the clinical results

Higher complication rate with the arthroplasty Higher patient satisfaction and AOFAS with arthrodesis

Pedobarography

No significant diffference

Sports activities

More sports with the arthroplasty

3rd Foot and Ankle Symposium Articles Disorders of the Foot and Ankle Diagnosis and Monogeneet



Friday, September 9th, 2011 Audhorum Balgrid University Heapty uniklinik

Introduction
Pat & Meths

Results

**Discussion** 

**▶** Conclusions



# Conclusion

A well functioning arthroplasty is better than a well functioning arthrodesis

Select your patients well if you are in doubt, fuse it



3rd Foot and Ankle Symposium Arthritic Disorders of the Foot and Ankle Dispressy and Management



1....

# **Ankle arthrodesis vs. Arthroplasty**





september

Thank you...

316 Foot and Ankle Symposium Artisitic Disorders of the Foot and Ankle Diagnosis and Monagement



Friday, September 9th, 2011 Auditorium Balgriel University Heaps unifelipik

Introduction
Pat & Meths
Results
Discussion
Conclusions



# **Ankle arthrodesis vs. Arthroplasty**

Patient: B.G. 60a the

OSG Arthrodesis left





AOFAS - Score 84

# Ankle arthrodesis vs. Arthroplasty









For heavy working safety is important
This is a farmer