



„ OHA! Ortho-Hilfe-Afrika ”

NGO Germany

„Experience and Results in Hip Replacement

144 cases since 2013 (5 Missions) ”.

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Why ?

- Great number of young people with destructed hips
- Incapable to work and take care of their families
- No access to local public health services (limited finances)
- Frequent need for small implants, locally unavailable

Aims:

- Hip replacement according european standards
„Establishment of a hip replacement project in a district hospital in Burkina Faso“
L. Dossche, J.F. Noyez, W. Ouedraogo, E. Kalmogho. Bone Joint Journal J2014; 96-B:177-80
- Surgeons with long standing experience
(30 & 15 yrs. of self-responsible THR-Experience)
- Education
Case discussions, 1st and 2nd assistance by local surgeons, postoperative care
- Grants for young (17-22 yrs) european trainees
- Involvement of scholars from german school
- Amelioration of local conditions
Compressed air system, image intensifier, OR-lights, etc.

Realisation

- 5 missionaries donate 2 weeks of holiday
No financial compensation, surgeons pay their own flight and expenses
- All-year engagement for fundraising and private donations
- Discount prices for implants and other materials needed
Exclusively for application during mission
- No governmental support

Criteria for inclusion of preferential patients

- Social anamnesis
- Modified Lequesne score > 14 pts

interprétation résultats	
entre 0 et 4 points	handicap minimal ou modeste
5, 6 ou 7 points	handicap moyen
8, 9 ou 10 points	handicap important
11, 12 ou 13 points	handicap très important
14 points ou plus	handicap extrême, insupportable

- Age < 60 yrs
- Good general health condition

Results: 5 missions, 5 years = 10 weeks

Patient data (n = 144)

- Female: 70 (48,5 %)
- Male: 74 (51,5%)
- Average age: 40 y
- Age minimum: 21 y
- Age maximum: 76 y
- Average mod. Lequesne score: 17,27 pts

Results: 5 missions, 5 years = 10 weeks

Surgery data

- Average surgery time: 110 min
- Surgery time minimum: 70 min
- Surgery time maximum: 235 min

Complexity of pathologies

- One day programm-



Complexity of pathologies



Results: 5 missions, 5 years = 10 weeks

Implant data

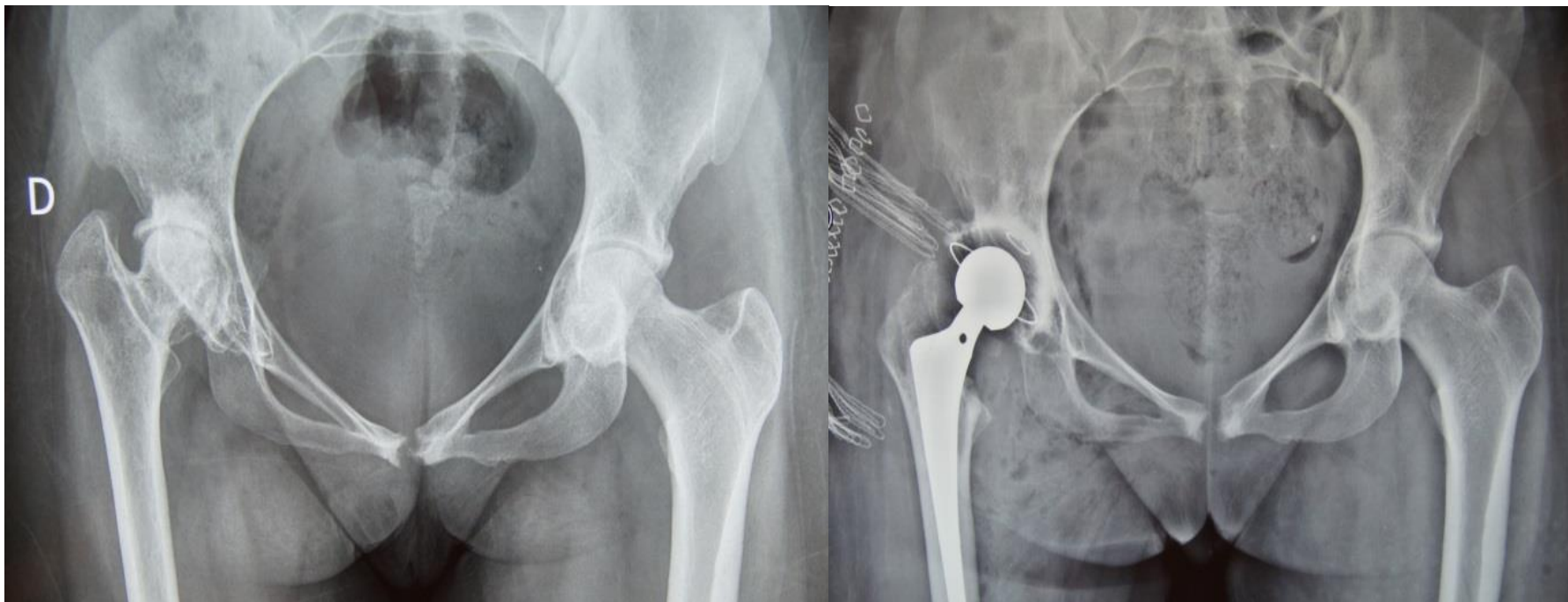
- Average cup size: 48 mm (range: 40 – 60 mm)
- Cemented cups: 69,86 %
- Bipolar: n = 2

- Average stem size: 10 mm (range 8 – 17 mm)
- Stem size 8 mm: 15,75 %

Results: 5 missions, 5 years = 10 weeks

Implant data – History

Small sizes

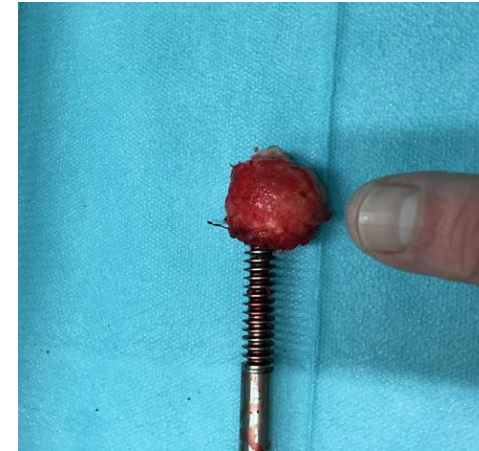


Results: 5 missions, 5 years = 10 weeks

Implant data – History

Small sizes

2016 – 2018:



- Bicontact 8 mm

8,3 >> 33% (average since 2016, n= 108: **23%**)

- Cups < 44 mm

8,3 >> 19,4 % (average since 2016 : **13,9%**)

Implants on stock / Mission

- Approx. 80 stems, 80 cups and > 100 heads

Stems:

- **Ecxia**, cemented: Standard and high offset, 12/14 mm cone, size 9-17 mm
- **Bicontact**, cemented and c-less, 8/10 mm cone, size 8-9 mm

Heads (metal) S >> XXL:

- 8/10, 22 and 28 mm
- 12/14, 22, 28 and 32 mm

Cups cemented:

- Ext. diameter: 38–64 mm
- Int. diameter: 22-32 mm

Cups c-less (no hole and multi-hole):

- Ext. diameter: 40-56 mm
- Int. diameter: 22-32 mm, incl. Dysplasia-Inlays

Bipolar cups:

- 50-60 mm

Supporting shells (Müller and Kerboull):

- 40-60 mm

Results: 5 missions, 5 years = 10 weeks

Complications

- No infection
- No chronic, aseptic loosening
- No permanent nerve palsy

- 5 postoperative dislocations of the head
- 1 postoperative dislocation of the cup
- 1 death, due to renal failure

Results: 5 missions, 5 years = 10 weeks

Complications needing open revision: n = 5 (7,2%)

- 2 change of head
- 1 transformation to bipolar cup
- 1 stem reorientation
- 1 change of cup

Conclusio

- Complexity of cases is highly demanding
- Provision of implants and hardware is challenging
- THR, with results comparable to european standards, is possible in a district hospital in Burkina Faso

The problem is not a lack of brilliant surgeons

- Insufficient access to market (economic, logistic)
- Local health services can not provide affordable access for most patients

Our work is only possible in cooperation with the local staff !!
Thanks to all of them !!!!!



Thank you for your attention