

# Urgent Hip Hemiarthroplasty by Anterior Approach in 31B13 Fractures of the Femoral Neck

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**Introduction:** The characteristics and possible complications related to intracapsular fractures of the proximal femur require individualized surgical treatment. Hemiarthroplasty in patients with relatively decreased activity and life expectancy has been reported to provide a period of good function and limited pain post-operatively. This intervention, which can be acutely employed using an anatomical approach, enhances this result. The objective of this study is to present surgical results at one month, six months, and one year following hip hemiarthroplasties for acute femoral neck fractures utilizing an anterior approach.

**Method:** This is a descriptive-prospective study of patients undergoing emergency hip hemiarthroplasty using an anterior approach for the diagnosis of displaced intracapsular fractures of the proximal femur, classified as 31B13 AO/OTA fractures. Demographic and outcome data were collected at routine post-operative intervals.

**Results:** Females between 70-79 years of age were the predominate demographic. The average BMI was  $26 \pm 3$  Kg/m<sup>2</sup>. The Harris Hip Score, the Pain Scale, and activities of daily living improved during the study period. Few complications were observed.

**Table 1.** Patient Distribution by Age and Sex

Age in Years	Sex				Total	
	Male		Female			
	No	%	No	%	No	%
65-69	1	14,3	3	23,0	4	20,0
70-79	4	57,1	7	53,9	11	55,0
80-89	2	28,6	2	15,4	4	20,0
≥90	-	-	1	7,7	1	5,0
Total	7	100	13	100	20	100
% total	35,0		65,0		100	
Mean Age	70,6		75,1		74±3 years	

**Table 3.** Post-Operative Complications

Complication	Occurrence (# of Patients, n)
Hip-Related	1
Surgical Site Infection	1
General Complications	1
Thromboembolism & VT	1
Kidney Sepsis	1

**Table 4.** Funcional Results Over Time

Harris Hip Score	EVA	ADLs
Time Point	Pain Score	Improvement
1 month $72 \pm 12$	$4 \pm 2$	50%
3 months $81 \pm 11$	$2 \pm 1$	65%
6 months $85 \pm 10$	$1 \pm 1$	83%

**Table 2.** Patient Data

Male	No=7	35%
Female	No=13	65%
Age (mean)	$74 \pm 3$	
Body Mass Index (Kg/m <sup>2</sup> )	$26 \pm 3$	
Functional classification (Charnley)		
A	No=18	90%
B	No=2	10%
Activities of Daily Living (ADLs)		
Independent	No=9	45%
Dependent	No=11	55%
Mobility		
Independent	No=9	45%
With support	No=11	55%
Surgical Data		
Operating Time (min)	$70 \pm 18$	
Blood Loss (ml)	$340 \pm 150$	

**Conclusion:** Urgent hip hemiarthroplasty through an anterior approach offers adequate patient satisfaction and early return to activities of daily living, with limited pain and low incidence of complications.