Results

The results was calculated and evaluated according to the modified Harris Hip score preoperatively and at the end of the study.

The total modified Harris Hip score was 207.5, and was graded as follows;

- **❖** Excellent from 207.5 to 186.5.
- ❖ Good from 186.5 to 166.
- ❖ Fair from 166 to 145.5.
- ❖ Poor below 145.5.

Where excellent and good results were considered satisfactory, and fair and poor results was considered unsatisfactory.

Assessment of the patients preoperatively using the modified Harris Hip score results in 7 patients excellent (25%), 4 good (14%), 7 fair (25%), and 10 poor (36%). And at the end of the study by 24 months postoperative results in the following results; 8 patients was excellent (29%), 6 was good (21%), 5 was fair (18%), and 9 was poor (32%).

Modified HHS	Preoperative	End of the study
Excellent	7	O
Geode		6
Fair	7	5
Programme		9 3 3
Table 10.1: Assess	ment of results preoperative and at	the end of the study

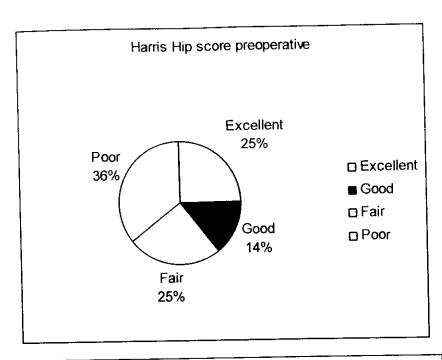


Chart 10.1: chart showing the percentage of results of the modified Harris hip score preoperatively

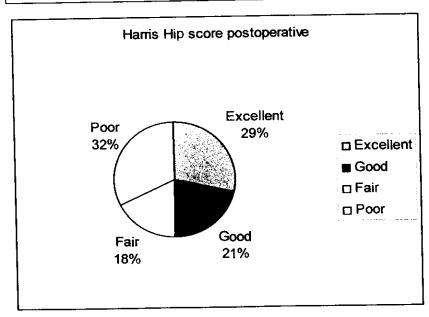


Chart 10.2: chart showing the percentage of results of the modified Harris hip score preoperatively

The Harris Hip score increased in 14 patients, decreased in 12 patients, and remained unchanged in 2 patients.

The average increase was 26.607 points, and the average decrease was 22.208 points on the Harris Hip score.

HHS	Increased	Decreased	Unchanged
Ficat I	3	3	2
Ficat II	7	9	
Ficat III	3	1	

Table 10.2: changes in HHS at different stages

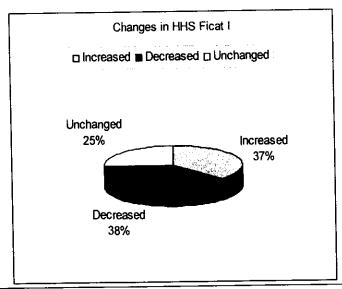


Chart 10.3: Showing the changes in HHS in Ficat & Arlet satge I cases

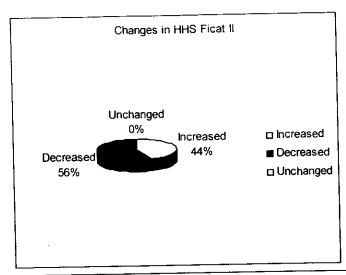


Chart 10.4: Showing the changes in HHS in Ficat & Arlet satge II cases

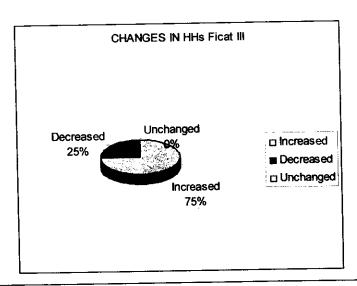


Chart 10.5: Showing the changes in HHS in Ficat & Arlet satge III cases

Statistical analysis of the data (Harris Hip score) preoperative and at the end of the study at 24 months postoperative using paired sample correlation test and paired sample T test was done for all the cases at different stages of diagnosis, and at each stage individually, and results in the following;-

All cases at different stages of diagnosis.

The mean of Harris Hip score preoperative and postoperative was 155.518, and 159.554 respectively.

Paired Samples Statistics (Table 10.3)

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 harris hip score pre		28	30.0917	5.6868
24 mth	159.554	28	30.9675	5.8523

 Paired sample correlation test for all cases at different stages of diagnosis preoperatively was 0.003 which is highly significant, and means that there is strong correlation between the score preoperative and postoperatively.

Paired Samples Correlations (Table 10.4)

		N	Correlation	Sig.
Pair 1	harris hip score pre op & 24 mth	28	.535	.003

• Paired sample T test for all cases at different stages of diagnosis preoperatively was 0.474 which is statistically insignificant.

Paired Samples Test

			Paire	d Differences					
				Std. Error	95% Con Interval Differ	of the		.,	Die (O telleum
ł		Mean	Std. Deviation	Mean	Lower	Upper		df	Sig. (2-tailed
Pair	harris hip score pre op - 24 mth	-4.0357	29.4379	5.5632	-15.4505	7.3791	725	27	.474

Table 10.5: Paired sample test at all stages

This means that there is strong correlation but there is no statistical significance between the score preoperatively and postoperative.

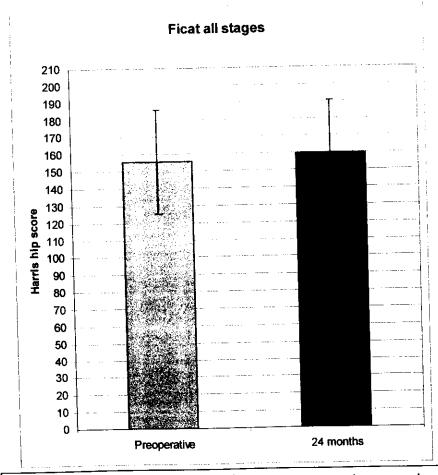


Chart 10.6: The mean of standard deviation preoperative and postoperative

Ficat and Arlet stage I

The mean of Harris Hip score at stage I Ficat and Arlet preoperative, and postoperative was 182.313, and 180.438 respectively.

Paired Samples Statistics Ficat&Arlet I. (Table 10.6)

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	harris hip score pre op	182.313	8	17.5925	6.2199
1	24 mth	180.438	8	21.0109	7.4285

• Paired sample correlation test for cases diagnosed as stage I Ficat and Arlet and perform the decompression procedure at this stage was 0.013, which is highly significant.

Paired Samples Correlations Ficat&Arlet I. (Table 10.7)

		N	Correlation	Sig.
Pair 1	harris hip score pre op & 24 mth	8	.818	.013

• Paired sample T test for the mentioned cases at stage I Ficat and Arlet was 0.674 which is statistically insignificant.

Paired Samples Test

			Paire	d Differences	3				ļ
				Std. Error	95% Cod Interva Differ	l of the			
		Mean	Std. Deviation	Mean	Lower	Upper	t	df	Sig. (2-tailed
Pair 1	hams hip score pre op - 24 mth	1.8750	12.0794	4.2707	-8.2236	11.9736	.439	7	.67

Table 10.8: Paired sample tests Ficat & Arlet I

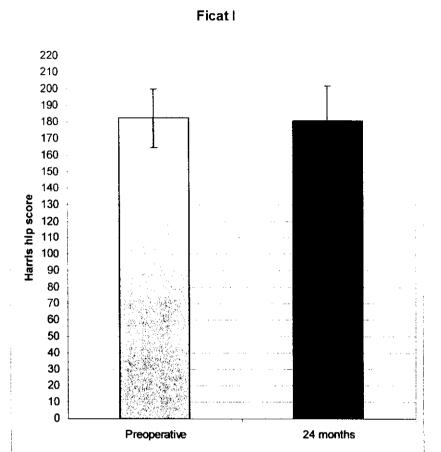


Chart 10.7: The mean of standard deviation preoperative and postoperative in Ficat and Arlet stage I

Ficat and Arlet stage II

The mean of Harris Hip score at stage II Ficat and Arlet preoperative and postoperative was 147.563, and 152.063 respectively.

Paired Samples Statistics Ficat&Arlet II (Table 10.9)

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	harris hip score pre op	147.563	16	25.6202	6.4051
	24 mth	152.063	16	30.4362	7.6091

• Paired sample correlation test for cases diagnosed as stage II Ficat and Arlet and perform the decompression procedure at this stage was 0.691, which is not statistically significant.

Paired Samples Correlations Ficat&Arlet II (Table 10.10)

		N	Correlation	Sig.
Pair 1	harris hip score pre op & 24 mth	16	.108	.691

• Paired sample T test for the mentioned cases at stage II Ficat and Arlet was 0.639 which is statistically insignificant.

Paired Samples Test

			Paire	ed Differences	3				<u> </u>
		:		Sld. Error	95% Col Interva Differ				
		Mean	Std. Deviation	Mean	Lower	Upper	t	df	Sig. (2-tail
Pair 1	harris hip score pre op - 24 mth	-4.5000	37.6143	9.4036	-24.5432	15.5432	479	15	ſ

Table 10.11: Paired sample tests Ficat & Arlet II



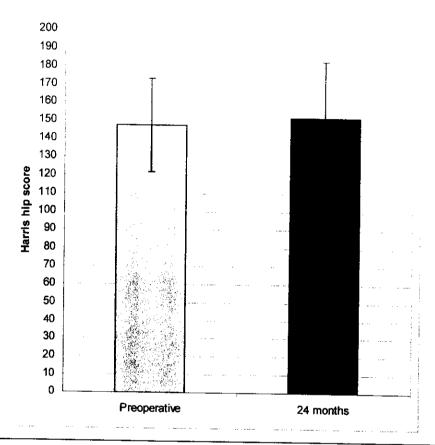


Chart 10.8: The mean of standard deviation preoperative and postoperative in Ficat and Arlet stage II

Ficat and Arlet stage III

The mean of Harris Hip score at stage III Ficat and Arlet preoperative and postoperative was 133.750, and 147.750 respectively.

Paired Samples Statistics Ficat&Arlet III (Table 10.12)

Pair 1 harris hip score pre op	Mean	<u>N</u>	Std. Deviation	Std. Error Mean
24 mth	133.750	4	35.5188	17.7594
	147.750	4	36.3444	18.1722

• Paired sample correlation test for cases diagnosed as stage III Ficat and Arlet and perform the decompression procedure at this stage was 0.61, which is statistically significant.

Paired Samples Correlations Ficat&Arlet III (Table 10.13)

ns hin score	N	Correlation	Sig.
op & 24 mth	4	.939	.061
	ns hip score op & 24 mth	ns hip score op & 24 mth 4	ns nip score

• Paired sample T test for the mentioned cases at stage III Ficat and Arlet was 0.112 which is statistically insignificant.

Paired Samples Test

		,		Paired San	iples Test				
1			Paire	ed Difference	s				
Pair hamis	nip score	Mean	Std. Deviation	Std. Error Mean	Interva Diffe	nfidence of the rence			
	- 24 mth	-14.0000	12.5698	6.2849	-34.0014	Upper 6.0014	<u>t</u>	df	Sig. (2-tail
						0.0014	-2.228	3	

Table 10.14: Paired sample tests Ficat & Arlet !!!



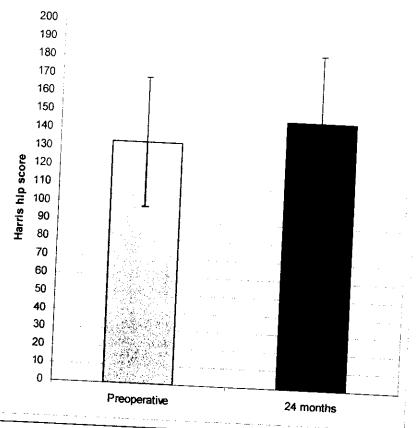


Chart 10.9: The mean of standard deviation preoperative and postoperative in Ficat and Arlet stage III

Results in Ficat stage I 75% satisfactory results (62.5% excellent, 12.5% good) and 25% unsatisfactory (25% fair).

Results in stage II 41.2% satisfactory (11.7% excellent, 29.4% Good) and 58.8% unsatisfactory (23.5% fair, and 35.2% poor)

Results in stage III 50% satisfactory (50% good result) and 50% unsatisfactory (50 % poor).

Example of Cases

Case 1 and 2

I. Personal history.

H. Name: Noha Adel Elshaarawy

I. Age: 34 years old J. Sex: female

Complaint.

History of left hip pain following intake of phenadone syrup for one month for allergic bronchitis. On clinical examination there were no rotational deformities in the left lower limb on inspection, full range of flexion, external, internal rotation

Plain x-ray on both hip joints shows no abnormality, MRI revealed bilateral avascular necrosis of the femoral head, and was classified according to Ficat and Arlet as Left hip stage 2, Right hip Stage 1, and scored according to harris hip score. Core decompression was done for both femoral heads at the same setting, followed by protected weight bearing on walker for 6 weeks and followed up at 2 weeks, 6 weeks, 6 months, 12 months, 18 months, and 24 months.

Harris Hip score for left hip

5. Pain (44 possible)

A. None, or ignores it Bisign occasion from	Score 44 40	Pre-	2 Wes	6 W)ks 44	6 Inth	12mth 40	48 mtto 44	24 m. h. 44
C. Mild pain, no effect on activities, rarely moderate pain with unusual activity, may take aspirin	30	30		: 1 110000000000000000000000000000000000	京、日本子上春・老竹を 場合のボッグ・ボックの			
se incongress and reference but an accomplished by the congress of the congres	20							
E. Marked pain, serious limitation of activities pain in bed bearidgen.	10 0							

2.A.1. Limp: a. None b. Slight c. Moderat d. Severe 2.A.2. Support: a. None b. Cane for		11 8 5 0	5	11	11	11	11	11
a. None b. Slight c. Moderat d. Severe 2.A.2. Support: a, None b. Cane for		8 5 0		11				
b. Slight c. Moderat d. Severe 2.A.2. Support: a, None b. Cane for		5 0		11				
c. Moderat d. Severe 2.A.2. Support: a, None b. Cane fo		0 3 11 1		11				
d. Severe 2.A.2. Support: a. None b. Cane for		5 11 .	11	11				
a, None b. Cane fo			11	11				
a, None b. Cane fo			11	11				244
b. Cane for		7		• • •	11	11	118	11
_ <u></u>								
walks	فالأمام المستدين والمتا	orani de estado en la constancia de la cons				de la companya della companya della companya de la companya della	17000 17040	
	nost of the	D				(1) - J.	1	ACTE.
time d. One cr	rut ch	3			ar war area.	e i kaensitiye	· PERENTAN	ur varioù (
e Two	anes 🔆	÷ 12			in V	-y Andri		
f. Two cr	utches	0		an agent	765 ATES	THE STATE OF THE S	v tran	(2) (2) (2)
g. Not at	ole to walk	;⊤ c0				- 1 Jan - 60	(3.44.62*)	
Company Comments		11 11 12 12 12 12 12 12 12 12 12 12 12 1	罗洛科斯			一块类		A Comment
2 Commes (14 pessible)	to di e ui La divida					· 经制度		
	\$27.70 B	That is	die bai		MARIE OF) -) - (2 1)	S. C. Marier Bu	A SECTION OF THE PROPERTY.
2.B.1. Stairs:	. ಎಲ್ಲಾಟ್ನ ಪರಿಷ್ಠಾತ ಪ್ರೀಕ್ಷೇ	(agramy) on the	er still endelt	wa ali	48 A.D	(40	44	A
a Nom	nally.	AND A	4. 2 2	2	2	2		
b. Usin C. in al	ig railing V mannel						เลยส์	
d Una	ble to do	stairs	0		. ##1. / M. 5.7 v. / W	· · · · · · · · · · · · · · · · · · ·	artini in the said	e are made
	SPENIE SP	TOWARD !				The state of the s		ASSESSMENT
o B 2 Shoes & Socks:			artedo VIA	2190 <u>(</u> 280)	ngara kati	2.飞髓	% . 4 0	1 4 AL
a. Wit	h ease	4,200,994	4	2 2	2	2		
	h difficulty able	SVANS ENDR	2 2 10 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		196	· 主翼	京 科	
C. Uni	apie -		i Marie sumi e dell'i					
			學列灣	20年 16				5
The second of th			5 5	5	50 (2000)		5 5	
(b.#)	ere franki	制力的原	ADT N	acet m	建	(水) (海) 西		
c. Un	able to sit	t	0					The second secon
	iortably	死治療 療					80个数	OPE TO
	A STATE OF THE STA	gen Agent Lectronics i	1 1	•	•	1	1 1	, 1
2.B.4 Enter public transport								

7. Absence of Deformity (4 points each if present)

	PRE- OP	2 WKS	6 WKS	6 MTH	12MTH	18 MTH	
A. Less than 30 degrees fixed	4	4	4	4	4	4	4
flexion contracture B. Less than 10 degrees fixed	4 .	4	4	4	4	4.	4
adduction							
C. Less than 10 degrees fixed internal rotation in extension.	4	4	4	4	4	4	4
D. Limb length discrepancy less than 3.2 cm.	4	4	4	4	4	4	4. 4. 6

8. Range of Motion

U. 130									EMERGED ATTICLE.
				Pire-op	2 wks	6 wks	B.mth	l2mt	nun.
And American Comment	Arc of Motion	<u>Index</u>	Max.						
	AIC OF WOUDT	111001	possibl						
			e			a a fill table to help	material designation of	95### # 75%	* XE
	*0.45°(45°)	M n	45	45	45	45	45		07
Flexion 3		0.6	27	27	27	27	27	27	27
	45-90°(45°)		_	6	6	6	6 7	6	6
The same of the sa	90-110°(20°)		TO SALES AND AND COME.	5944 A. 424 (1997)					
421900	110-	0.0	0						
	130°(20°)		o, rosanta Ziskisk	enerañ (a	12	40	2012 排	12	12:
Moderation	'045°(15°)	0.8	A 49.4	15.5 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	1.5	1.5	1.5	1.5
A CONTRACTOR OF THE PARTY OF TH	15-20°(5°)	0.3	1.5	1.5	1.5	1.U 			第 次是分
	20,45 ⁹ (25 ⁹)	0.0	150					6	6
	0-15 ⁰	0.4	6	6	6	6	6	_	-
E.R. in extension	1 Mayer 15		# 50 **	MARKE.	(G. A		建 态表现		
	The state of the s	0.0	0						
I.R. in extension	Any		7 3 7 3 7	7 5	7 - 3	*	33	3	3.3
Addustion	30215°	0,2	it is featured and	M. NO ANDERSO	=.:	. 4.5. 24.6.44			
A. A. Carrier and	Over 15°	0.0	0	er inde v raterijes		91 x 7 数数.	1990年2月	機成功	
aExtension.	Many	0,0	10	a jane .	Salah et e	94 BUSE	is var ierine	g gargeria, constitu	
AL-VISTAINAGE	Mar Automore Co. 200			and the second second second second	west toward	Se see a	(()	a serons	# 1919635
Total HHS				1725	<u>₩</u> 192	a wa	M MARONAU	E REPRESENTA	N. William Action .

Total HHS

Harris Hip score for the right hip

9. Pain (44 possible)

9. Pain (44 possible	7							
	Score	Pre- op	2 wks	6 wks	6 mth	12mth	18 mth	24 mt h
A. None, or ignores it B. Slight, occasional, no compromise in activities C. Mild pain, no effect on activities, rarely moderate pain with unusual activity, may take aspirin	44 40 30	44	44	44	44	44	44	44
D. Moderate pain, tolerable but makes concessions to pain. Some limitation of ordinary activity or work. May require occasional medicine stronger than aspirin	20							and the second s
E. Marked pain, serious limitation of activities F. Totally disabled, crippled, pain in bed, bedridden	10 0	. W .			4	4 % -		

10. Function (47 poodists)					A CONTRACTOR STATE CONTRACTOR
2.A. Gait (33 possible)		Score Pre- op	2 6 wks w	ks inth	12mt 18 h mt h
2.A.1. Limp:		11	31 1	1% 00	11 2 11
b. Slight		8 5			
d. Severe		0			
2.A.2. Support:		11460 + 1141 + 11 7	7 - 11 - 11	11	11 11
b. Cane fo walks c. Cane m		· market en salvand die sten Still an			
d. One cri e. Two ca f. Two cru	ines	_3 2⁄2;			
g Notab	le to walk	0.			型1.36 200 200 300 300 300 300 300 300 300 300 300

2.B. Activities (14 possible)

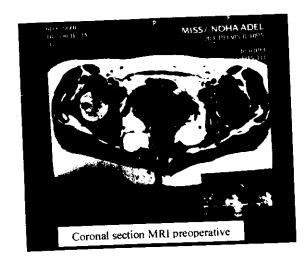
2.B.1. Stairs:	a. Normally b. Using railing c. In any rnanner d. Unable to do stairs	4 2 1 0	2	2	2	2	2	2
2.B.2. Shoes & Socks:	a. With ease b. With difficulty c. Unable	4 2 0	2	2	4	4	4	4
	a. Any chair one hour b. High chair half-hour c. Unable to sit cornfortably	-	5 & (2) = 1	5 1	5	5		5 (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

11. Absence of Deformity (4 points each if present)

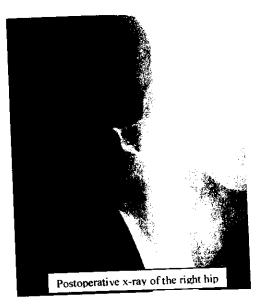
	PRE-	2	6 WKS	6 MTH	12MTH	18 MTH	24 MTH
A. Less than 30 degrees fixed	OP 4	WKS	4	4	4	4	4
flexion contracture B. Less than 10 degrees fixed admission	4	4	4	4	4	4	4
C. Less than 10 degrees fixed internal rotation in extension.	4	4	4	44	4	4	7
O ASERDAEROUN ASSAURANTAISES Angres Print		40	4		4		41.
				· 第 · · · · · · · · · · · · · · · · · ·			

12. Range of Motion

12.	Range of Moti	ion		Pre- op	2 wks	6 wks	6 mth	12 mth	18 mth	24 mt h
Flexion	Arc of Motion 0-45°(45°) 45-90°(45°) 90- 110°(20°)	1.0 0.6 0.3	Max. possible 45 27 6	45 27 6	45 27 6	45 27 6	45 27 6	45 27 6	45 27 6	45 27 6
Abduction	110- 130°(20°) 0-15°(15°) 15-20°(5°) 20-45°(25°) 0-15°	0.0 0.8 0.3 0.0 0.4	12 1.5 0 6	12 1.5 6	12 1.5 6	12 1.5 6	12 1.5 6	12 1.5 6	12 1.5 6	1: 1 6
extension I.R. in extension Adduction	Over 15° Any 0-15° Over 15°	0.0 0.2	0 0 3 0	3	3	3:			1 (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
Extension Total Motion Total/HHS	Any Point Value =	100.5	0	179	5.5 175	5.5 177			79.5	



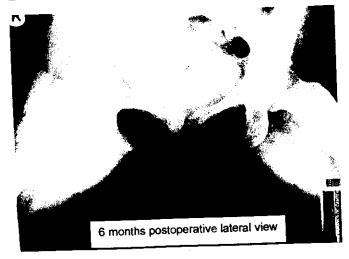


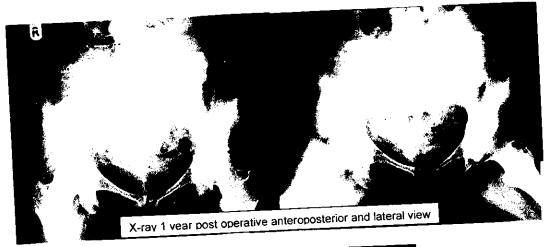








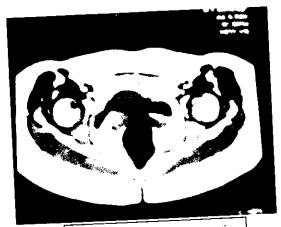




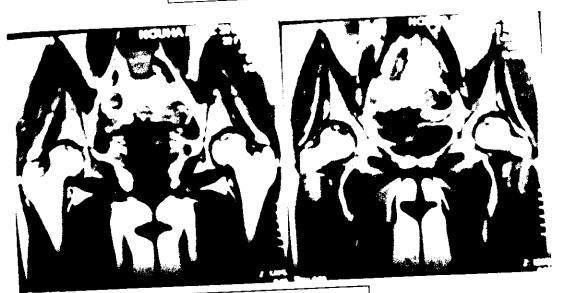




2 years postoperative anteroposterior and lateral views



Coronal MR12 years postoperative



Sagittal MRI 2 years postoperative

CASE 3,4

I. Personal history.

K. Name: Ahmed Mohamed Mostafa

L. Age: 38 years old

M. Sex: male

N. Occupation: office job

O. Special habits: no special habits of medical importance

P. Telephone:

Q. Address:

II. History:

History of General disease: Allergic pharyngitis

Onset of Complaint: Left hip pain since September 2002

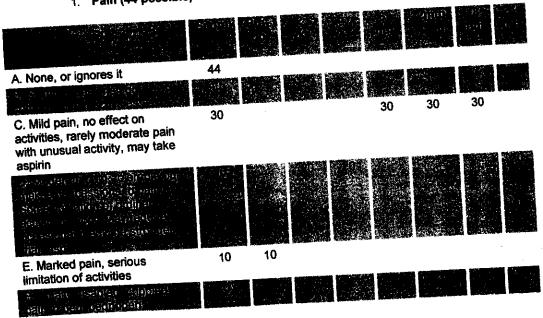
History of corticosteroid intake and duration of intake: phenadone syrup

Stage at diagnosis:

Date of operation: 17 / 10/ 2002

Harris Hip score for Left hip

1. Pain (44 possible)

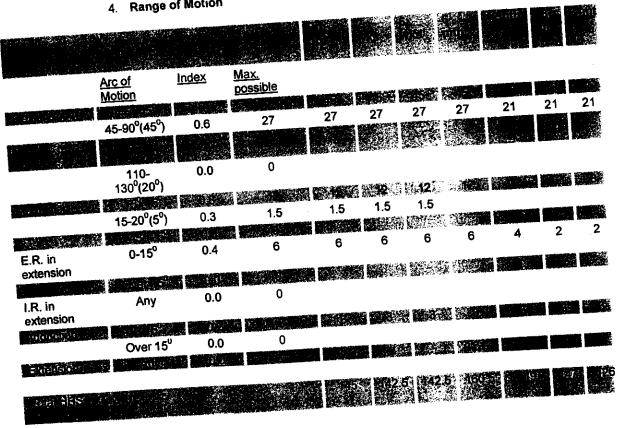


2.A. Gait (33 possible)	Sco	re Pre- op	2 wks	6 6 wks mth	12mt 18 h mt
2.A.1. Limp:	a None	j., 5,11∗-			
	a, None b. Slight o. Moderate	3	5	5 5	5
	d. Severe)	•		
2.A.2. Support:	a) None b. Cane for long	11 (11) 7	i la sono	A 68 50	
	walks	5			
	d. One crutch	3	3 75 276	3 (2) 3 200 32	
	4 Two crutches	0			
	naministrations				
2.B.1. Stairs:	o dia				
Z.B. (. Stalls.	b. Using railing	2		2 2	2 2 2
	d. Unable to do stairs	0			Sign Street of Control
2.B.2. Shoes & Socks:			# 3 6		2 2
	b. With difficulty				
1 : 12 Ch (12 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	a. Any chair one hou	r 5	5	5 5	5 5 5
Series	c. Unable to sit	0			
2.B.4 Enter public transport	comfortably	1	1	1 1	1 1 1

3. Absence of Deformity (4 points each if present)

	PRE-	2	6.WKS	6 MTH	12MTH	18 MTH	24 MTH
	OP	WKS	4	4	4	4	4
A. Less than 30 degrees fixed flexion contracture	4	4	.	4	4	4	. 4 .
B. Less than 10 degrees fixed adduction							
C. Less than 10 degrees fixed internal rotation in extension.	4	4	4	4	4	4	4
D Limb legath discrepancy less	. 4		4		4	4	
Tarova							

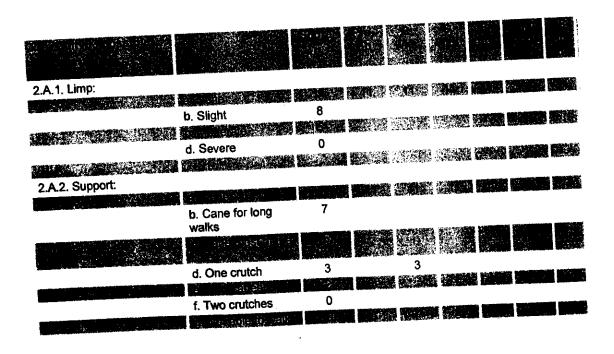
4. Range of Motion



Harris Hip score for Right Hip

1. Pain (44 possible)

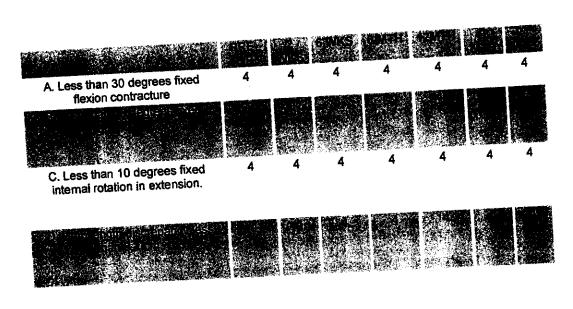
1. Pain (44 possible)				2000	4
	Score Pre- op∢	2 6 wks wks	6 mth	12mth 718 25 mth mt	育 (4) (2) (2)
	44	44 44	44	44 44 44	er.
A. None, or ignores it	40 40				
B. Slight, occasional, no compromise in activities				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ty::>
C Mild pain no effect on	30				
activities, rarely moderate pain with unusual activity, may take					
with unusual activity, may take	······································	AL PROPERTY.	Section 1		
D Moderate pain, tolerable 101	20				
Some infinition of contrary					
《新聞》的 "我们是我们的人的人,我们们们		10 de 19	8 6- 900 2		
			\$ \$1.63 ************************************		MARKET STATES
F Marked pain, serious	10				
limitation of activities					
The state of the s					



2.B. Activities (14 possible)

2.B.1. Stairs:	a. Normally b. Using railing c. In any manner d. Unable to do stairs	4 4 4 2 1 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2.B.2. Shoes & Socks:	esse divide	2 (0)24 (1) ***********************************	4 4 4
		5 5 5 0	The state of the s

3. Absence of Deformity (4 points each if present)



4. Range of Motion

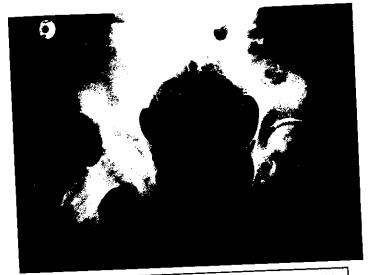
	4. Range o	Motion					and the second second	eritti ülekirelinin
		en venezetikazatzik	· · · · · · · · · · · · · · · · · · ·	Pre- 2	6 4	10 mg/m 30 mg/m 1 mg/m/	2mth 18 mi	. ¥24mt . ∖ k
7.00	がような。 対はは対象領域とはよった。		A- 1124 SE		ks wks	mth		i dh
osta, com	ing the start	***					in mind Change	
and the second	Mandala and a	Index Ma	IX.					
	Arc of Motion		ssible			ar aeb ^{an} to	45 4	5 45
	0.45°(45°)	1,0	45	第 45	45 45		To the second base and	7 27
FIEXON LAND	45-90 ⁰ (45 ⁰)	0.6	27	27	27 27			
Land to the Control of the Control o	and the second process of the first first	0.3	6.6 €	à 0	3 0	0.		
12	110 (20°)	5 74 745 618	1.142				and the state of t	
A ANGLES	110-	0.0	0					
	130 ⁰ (20 ⁰)	•		i wantowi i maka a maka 20		125 - 1 - 109 And A	12	12 12
ASSILUTION	**************************************	0.8	* 12 ·	差。12	.12	and the State of	Arthere Early Margare III.	
SAMPLE OF SERVICE	15-20°(5°)	0.3	1.5		ena esa esperanta (Maria Maria)			
	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	SCHOOL S			SCHOOL SHOW AND ADDRESS OF		6	6 6
	0-15 ⁰	0.4	6	6	6 6	6	•	-
E.R. in	0-13	•			NAME AND ADDRESS OF THE PARTY O			
extension							Mary Section on	
	Any	0.0	0					
I.R. in	7413				DESCRIPTION OF THE PARTY OF THE			
extension								
	Over 15°	0.0	0		englishin 1905			
							-	
A second of the second								
كالكانا ويسودون								
		1					; and an	



Preoperative MRI sagittal showing AVN of the left hip



Coronal section MRI showing AVN of the left hip (preoperative)



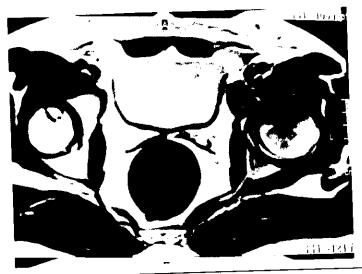
6 months postoperative on left hip and preoperative on right hip



9 months postoperative on left hip and preoperative on right hip



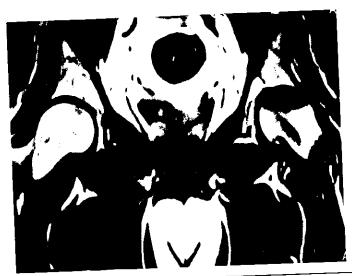
Left hip 9 months postoperative



MRI coronal plane showing post operative follow up of the left hip by 9 months, and early AVN of the right hip



Postoperative x-ray of the right hip

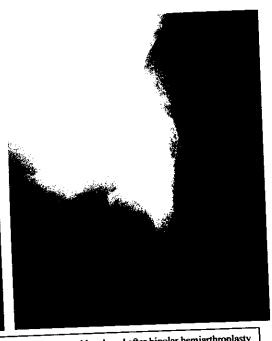


Sagittal plane MRI follow up 6 months postoperative right hip, and 15 months postoperative on left hip



24 months follow up f the left hip and 15 months follow up of the right hip





2 years follow up of the left hip with collapse of the left femoral head, and after bipolar hemiarthroplasty



2 years follow up of the right hip joint

Case 5.6

I. Personal history.

R. Name: Alaa Eldin Foad S. Age: 41 years old

T. Sex: male

U. Occupation: security worker

V. Special habits: smoker 10 cigarettes / day

II. History:

History of General disease: No Onset of Complaint: February 2004

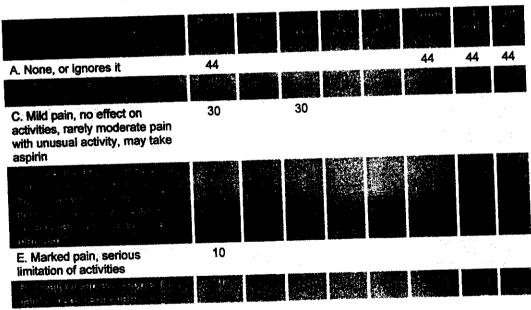
History of corticosteroid intake and duration of intake: 14 injections of diprofos for

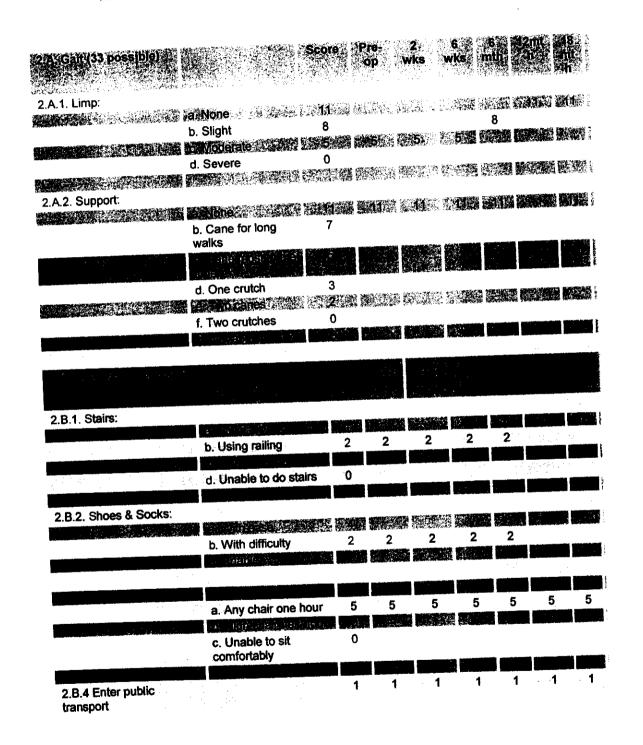
lumbar disc prolapse.

The patient performed core decompression for both hips at the same setting

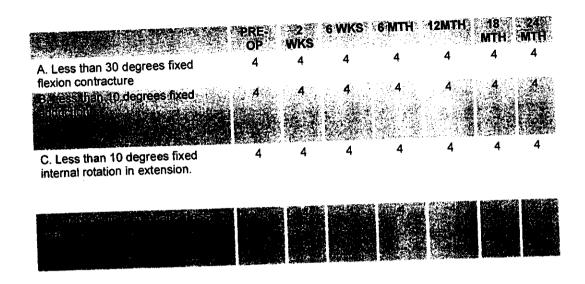
Harris Hip Score for the Right Hip

13. Pain (44 possible)

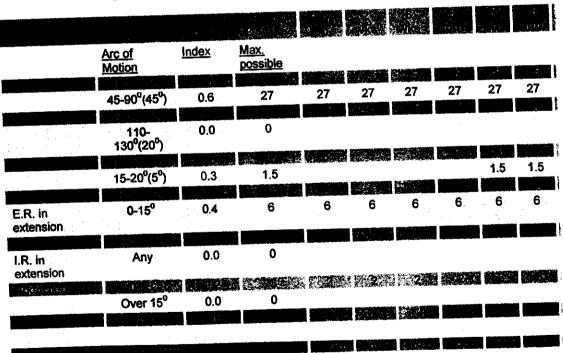




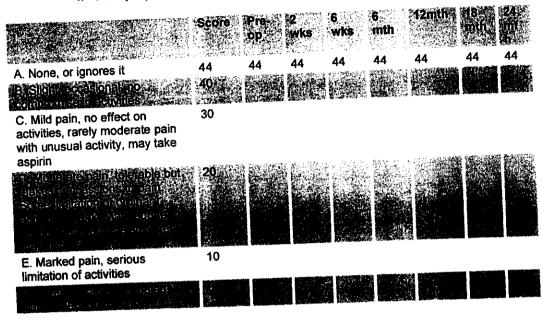
15. Absence of Deformity (4 points each if present)

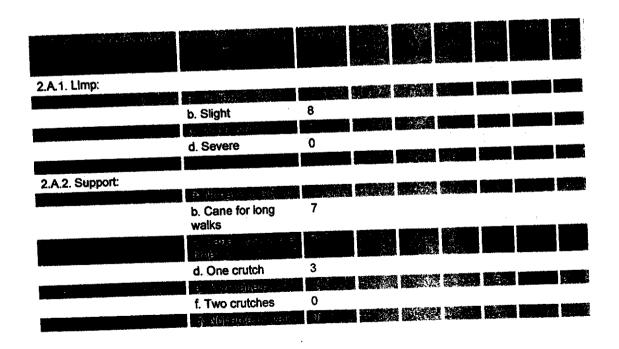


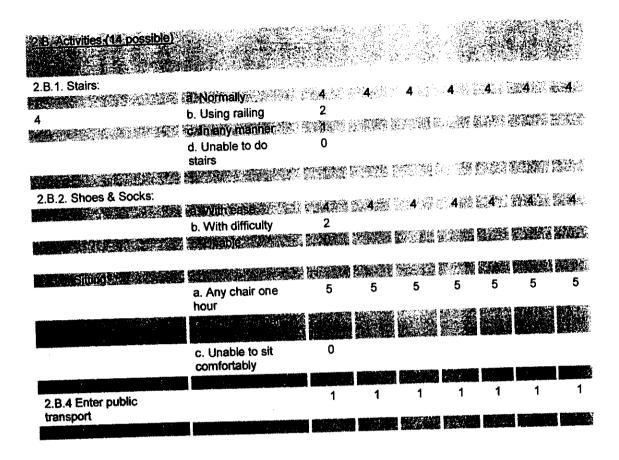
16. Range of Motion



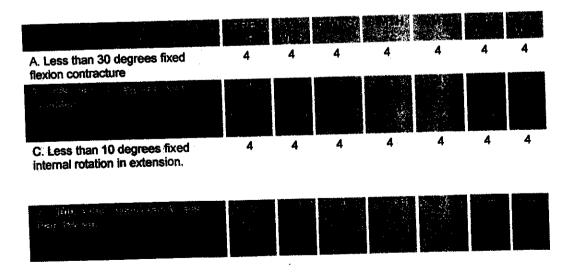
1. Pain (44 possible)





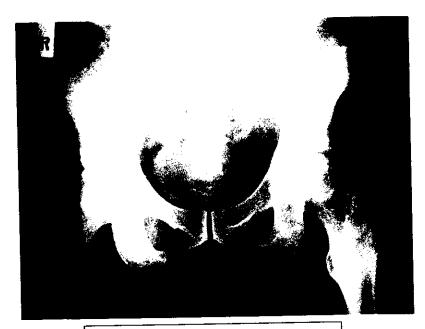


3. Absence of Deformity (4 points each if present)



4. Range of Motion

re-				Pre-	2 wks	6 wks	6 mth	12mg	is min
24-September 19-19 Physical September 19-19	Arc of Motion	Index	<u>Max.</u> possi ble					o no se	52 54 14 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18
*Flexion***	0 45(45°) 45-90°(45°)	3.0	27	45 27	27	. 45 27	27	27	27 26
	90-110 120 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0	0	6		6	6 3		
Assessed Special	15-20 ⁰ (5 ⁰)	0.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
E.R. in	0-15°	0.4	6	6	6	6	6	6	6
extension	Any	0.0	0	F# 81		404			
I.R. in extension	Any Over 15 ⁰	0,0	0	70.25					
Total HHS				213.5	213.5	213.5	213.5	213.5	213.5



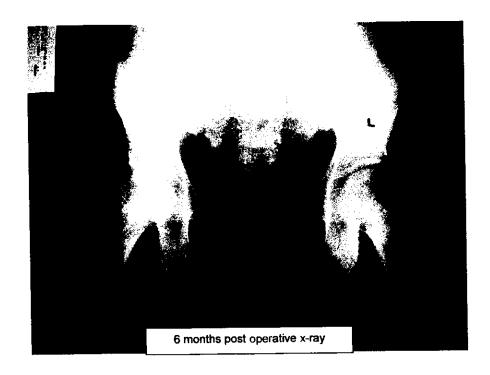
Preoperative x-ray pelvis



Pre operative MRI saittal plane showin bilateral AVN



Postoperative x-ray pelvis





MRI sagittal plane 6 months postoperative

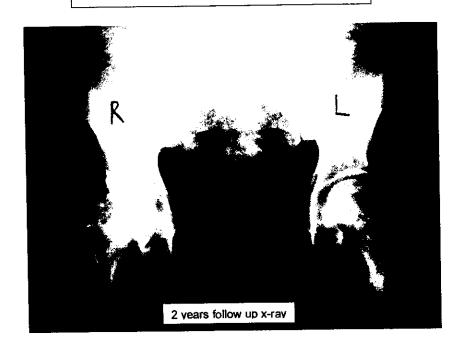


MRI coronal plane 6 months postoperative

b



One year follow up x-ray of both hips





2 years follow up x-ray lateral view