Outcome

and TKA = total knee arthroplasty.

Age at	Osteotomy

70 (47-81)

67 (48-80)

67 (57-72)

Follow-up periods by physical examination, radiography, and history*

No. of	
Knees	
38	

29

Lost to F/U 69 (68-70) 14.0 (9.3-16.8) 0(0.0-0.0)14.0 (9.3-16.8) 69 (47-81) 76 8.0 (0.1-22.0) 2.9 (0.0-18.5) 10.8 (0.1-22.0)

*The values are given as the mean with the range in parentheses. F/U = follow-up, PE = physical examination,

Years F/U by PE

and radiograph

7.9 (0.1-19.0)

6.8 (0.8-15.5)

10.9 (2.0-22.0)

Additional F/U

years by history

4.1 (0.0-16.8)

0.5(0.0-7.1)

8.3 (0.0-18.5)

only

Total years of

11.7 (0.1-20.5)

7.9 (0.8-15.5)

19.2 (15.0-22.0)

F/U

Summary

TABLE E-1

Death

TKA

Surviving

>16° 1 HSS score at last $>16^{\circ}$ at score (range) (range) until described as (range) knees 1 year knees knees PE (no. last PE with satisfactory at with at last PE HSS score described as post year 1 year post HTO HTO HSS (no. of HSS of ≥70 satisfactory post of last HTO information (no. of score knees) knees) score knees) (no. of of ≥70 of ≥70 knees) at 1 at last PE year post

Mean HSS

 $<8^{\circ}$ or

No. of

No. of years

No. of years

No. of knees

8° - 16°

TABLE E-2 Results based on radiographic position, HSS knee scores, and historical information*

No. of

Mean

8° - 16°

 $<8^{\circ}$ or

Outcome

				НТО							
Death	23	12	90 (62-99)	33	22	14	82 (62-97)	33	7.4 (0.0-20.5)	31	10.9 (0.0-20
TVA	11	15	84 (40, 06)	22	7	20	67 (40, 88)	3	6.1 (0.0.15.5)	0	64(00154

20.9) 6.4 (0.0-15.5) TKA 11 84 (49-96) 20 6 / (49-88) 6.1 (0.0-15.5)

Surviving 88 (69-95) 79 (66-93) 10.6 (0.0-22.0) 13.9 (0.0-22.0) 4

91 (87-94) 77 (76-80) 14.0 (9.3-16.8)

Lost to F/U

14.0 (9.3-16.8)

Summary 28 86 (49-99) 63 36 36 76 (49-97) 43 7.4(0.0-22.0)

9.5 (0.0-22.0)

*The one-year alignment data were not available for seven of the seventy-six knees because of death, nonunion, and missed one-year follow-up examination. A final alignment was available for

seventy-two knees. F/U = follow-up, PE = physical examination, HTO = high (proximal) tibial osteotomy, TKA = total knee arthroplasty, and HSS = Hospital for Special Surgery.

TABLE E-3 Uni	ivariate Cox Regr	ession Results							
	End Point*								
	Conversion to T	Total Knee	Hospital for Spe	ecial Surgery	Patient Dissatisfaction				
	Arthroplasty		Score of <70						
Factor	Risk Ratio	P value	Risk Ratio	P value	Risk Ratio	P value			
	(95% CI)		(95% CI)		(95% CI)				
Gender	0.457 (0.221 -	0.0347	0.507 (0.243 -	0.0693	0.602 (0.318 -	0.1186			
	0.945)		1.055)		1.139)				
Age-Group	0.890 (0.420 -	0.7605	0.906 (0.420 -	0.8015	0.656 (0.337 -	0.2150			
(<65, 65+)	1.884)		1.953)		1.277)				
Stabilization	1.359 (1.023 -	0.0345	1.062 (0.811 -	0.6617	1.160 (0.915 -	0.2194			
Type (T or L-	1.806)		1.391)		1.470)				
buttress plate,									
4-hole or 5-									
hole narrow									
plate)									
Overweight	1.000 (0.980 -	0.9619	1.005 (0.984 -	0.6352	1.006 (0.989 -	0.4786			
(yes, no)	1.019)		1.026)		1.024)				
One-Year	3.021 (1.431 -	0.0038	4.000 (1.634 -	0.0024	2.114 (1.095 -	0.0256			
Alignment	6.369)		9.804)		4.082)				
Group (<8° or									
>16°, 8°-16°)									
Adverse	3.123 (1.525 -	0.0019	2.180 (1.022 -	0.0437	2.444 (1.258 -	0.0083			
Event† (yes,	6.396)		4.650)		4.747)				
no)									
Other Factors‡	1.766 (0.534 -	0.3512	3.224 (0.950 -	0.0604	2.946 (1.032 -	0.0435			
(yes, no)	5.838)		10.941)		8.407)				
Ahlbäck	1.097 (0.589-	0.7704	1.437 (0.760-	0.2650	0.983 (0.562 -	0.9519			
radiographic	2.046)		2.718)		1.718)				
grade (1,2,3)									
			roneal palsy, thron	nbophlebitis, and	d infection.				
‡Includes Work	ers' Compensatio	n and public liab	ility.						

Identified by Univariate Analyses* P Value **End Point** Significant Factors Risk Ratio (95% CI) Total knee One-Year 4.515 (2.039 -0.0002 0.000) arthroplacty Alianment Croun

TABLE E-4 Multivariate Cox Regression Model with Use of Significant Risk Factors

arunopiasty	Angillient Group	9.990)	
	$(<8^{\circ} \text{ or } >16^{\circ}, 8^{\circ}-16^{\circ})$		
	Adverse Events	3.125 (1.382 -	0.0062
	(yes, no)	7.068)	
	Stabilization Type	2.606 (1.125 -	0.0254
1	/m	5 00 F)	

	(500, 110)	7.000)	
	Stabilization Type	2.606 (1.125 -	0.0254
	(T or L-buttress	6.035)	
	plate, 4 or 5-hole		
	narrow plate)		
Hospital for	One-Year	3.997 (1.635 -	0.0024
Caraial Caracana	Aliana and Casaa	0.770)	

	(T or L-buttress	6.035)	
	plate, 4 or 5-hole		
	narrow plate)		
Hospital for	One-Year	3.997 (1.635 -	0.0024
Special Surgery	Alignment Group	9.770)	
Score of <70	$(<8^{\circ} \text{ or } > 16^{\circ}, 8^{\circ} - 16^{\circ})$		
Patient	One-Year	2.472 (1.250 -	0.0093

dissatisfaction Alignment Group 4.891) $(<8^{\circ} \text{ or } >16^{\circ}, 8^{\circ}-16^{\circ})$

2.405 (1.132 -0.0224 Adverse Events

(yes, no) 5.110)

*Significant (p < 0.05) factors retained in the final model fit in stepwise procedure.

TABLE E-5 Complicat	ions and their	r treatment*			
Diagnosis	No. of	Treatment	No. of	Outcome	No. of knees
	knees		knees		
Deep vein thrombosis	2	Intravenous	2	Recovered	2
		heparin			
Partial peroneal palsy	4	Observation	4	Complete recovery	2
(motor and sensory)				Partial recovery	2
Partial peroneal palsy	3	Observation	3	Complete recovery	1
(sensory)				Partial recovery	2
Compartment	1	Observation	1	Partial recovery	1
syndrome					
Wound infection	2	Débridement	2	Successful for 13 and	2
(Staphylococcus		and wound		15 years before TKA	
aureus)		irrigation			
Nonunion	4	Bone graft and	3	Union	2
		restabilization			
				One failed and had	1
				TKA	
		TKA	1	TKA successful	1
Total	16		16		16

^{*}TKA = total knee arthroplasty