2000 I KDC KNEE EXAMINATION FORM										
Patient Name:	_ Date of Bir		/							
Gender: F M Age:	Date of Exa	Day Month amination: Day	Year // Month Year							
Generalized Laxity:	tight	normal	lax							
Alignment:	obvious varus	normal	obvious valgus							
Patella Position:	obvious baja	normal	obvious alta							
PatellaSubluxation/Dislocation:	centered	subluxable	subluxed	dislocated						
Range of Motion (Ext/Flex):	Index Side: Opposite Side:	passive/ passive/	/	active// active//						

SEVEN GROUPS		FOUR GRADES			_		*Gro		
		A	В	С	D	Grade			
		Normal	Nearly Normal	Abnormal	Severely Abnormal	A	В	С	D
1.	Effusion	None	Mild	Moderate	Severe				
2.	Passive Motion Deficit								
	∆Lack of extension	<3°	3 to 5°	6 to 10°	>10°				
	Δ Lack of flexion	0 to 5°	6 to 15°	16 to 25°	>25°				
3.	Ligament Examination (manual, instrumented, x-ray)								
	Δ Lachman (25° flex) (134N)	-1 to 2mm	3 to 5mm(1 ⁺) <-1 to -3	6 to 10mm(2 ⁺) <-3 stiff	>10mm(3 ⁺)				
	∆Lachman (25° flex) manual max Anterior endpoint:	-1 to 2mm firm	3 to 5mm	6 to 10mm soft	>10mm				
	Δ Total AP Translation (25° flex)	0 to 2mm	3 to 5mm	6 to 10mm	>10mm				
	Δ Total AP Translation (70° flex)	0 to 2mm	3 to 5mm	6 to 10mm	>10mm				
	ΔPosterior Drawer Test (70° flex)	0 to 2mm	3 to 5mm	6 to 10mm	>10mm				
	∆Med Joint Opening (20° flex/valgus rot)	0 to 2mm	3 to 5mm	6 to 10mm	>10mm				
	∆Lat Joint Opening (20° flex/varus rot)	0 to 2mm	3 to 5mm	6 to 10mm	>10mm				
	ΔExternal Rotation Test (30° flex prone)	<5°	6 to 10°	11 to 19°	>20°				
	∆External Rotation Test (90° flex prone)	<5°	6 to 10°	11 to 19°	>20°				
	∆Pivot Shift	equal	+glide	++(clunk)	+++(gross)				
	∆Reverse Pivot Shift	equal	glide	gross	marked				
4.	Compartment Findings	crepitati		crepitation	n with				
	∆Crepitus Ant. Compartment	none	moderate	mild pain	>mild pain				
	∆Crepitus Med. Compartment	none	moderate	mild pain	>mild pain				
	∆Crepitus Lat. Compartment	none	moderate	mild pain	>mild pain				
5.	Harvest Site Pathology	none	mild	moderate	severe				
6.	X-ray Findings								
	Med. Joint Space	none	mild	moderate	severe				
	Lat. Joint Space	none	mild	moderate	severe				
	Patellofemoral	none	mild	moderate	severe				
	Ant. Joint Space (sagittal)	none	mild	moderate	severe				
	Post. Joint Space (sagittal)	none	mild	moderate	severe				
7.	Functional Test								
	One Leg Hop (% of opposite side)	≥90%	89 to 76%	75 to 50%	<50%				
	One Leg Hop (% of opposite side) nal Evaluation	≥90%	89 to 76%	75 to 50%	<50%	, D	6	6	5

* Group grade: The lowest grade within a group determines the group grade

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INSTRUCTIONS FOR THE 2000 IKDC KNEE EXAMINATION FORM

The Knee Examination Form contains items that fall into one of seven measurement domains. However, only the first three of these domains are graded. The seven domains assessed by the Knee Examination Form are:

1. Effusion

An effusion is assessed by ballotting the knee. A fluid wave (less than 25 cc) is graded mild, easily ballotteable fluid – moderate (25-60 cc), and a tense knee secondary to effusion (greater than 60 cc) is rated severe.

2. Passive Motion Deficit

Passive range of motion is measured with a gonimeter and recorded on the form for the index side and opposite or normal side. Record values for zero point/hyperextension/flexion (e.g. 10 degrees of hyperextension, 150 degrees of flexion = 10/0/150; 10 degrees of flexion to 150 degrees of flexion = 0/10/150). Extension is compared to that of the normal knee.

3. Ligament Examination

The Lachman test, total AP translation at 70 degrees, and medial and lateral joint opening may be assessed with manual, instrumented or stress x-ray examination. Only one should be graded, preferably a "measured displacement". A force of 134 N (30 lbs) and the maximum manual are recorded in instrumented examination of both knees. Only the measured displacement at the standard force of 134 N is used for grading. The numerical values for the side to side difference are rounded off, and the appropriate box is marked.

The end point is assessed in the Lachman test. The end point affects the grading when the index knee has 3-5 mm more anterior laxity than the normal knee. In this case, a soft end point results in an abnormal grade rather than a nearly normal grade.

The 70-degree posterior sag is estimated by comparing the profile of the injured knee to the normal knee and palpating the medial femoral tibial stepoff. It may be confirmed by noting that contraction of the quadriceps pulls the tibia anteriorly.

The external rotation tests are performed with the patient prone and the knee flexed 30° and 70°. Equal external rotational torque is applied to both feet and the degree of external rotation is recorded.

The pivot shift and reverse pivot shift are performed with the patient supine, with the hip in 10-20 degrees of abduction and the tibia in neutral rotation using either the Losee, Noyes, or Jakob techniques. The greatest subluxation, compared to the normal knee, should be recorded.

4. Compartment Findings

Patellofemoral crepitation is elicited by extension against slight resistance. Medial and lateral compartment crepitation is elicited by extending the knee from a flexed position with a varus stress and then a valgus stress (i.e., McMurray test). Grading is based on intensity and pain.

5. Harvest Site Pathology

Note tenderness, irritation or numbness at the autograft harvest site.

6. X-ray Findings

A bilateral, double leg PA weightbearing roentgenogram at 35-45 degrees of flexion (tunnel view) is used to evaluate narrowing of the medial and lateral joint spaces. The Merchant view at 45 degrees is used to document patellofemoral narrowing. A mild grade indicates minimal changes (i.e., small osteophytes, slight sclerosis or flattening of the femoral condyle) and narrowing of the joint space which is just detectable. A moderate grade may have those changes and joint space narrowing (e.g., a joint space of 2-4 mm side or up to 50% joint space narrowing). Severe changes include a joint space of less than 2 mm or greater than 50% joint space narrowing.

7. Functional Test

The patient is asked to perform a one leg hop for distance on the index and normal side. Three trials for each leg are recorded and averaged. A ratio of the index to normal knee is calculated.