APPENDIX 3: Risk-of-Bias Assessments

Newcastle-Ottawa Quality Assessment Scale for Cohort and Case-Control Studies

			S	electio eac		pt	Comparability (2 pts)		me/Ex	posure ch)	
Authors	Title	Type of Study	1	2	3	4	1	1	2	3	TOTAL
	Comparative analysis of medial patellofemoral ligament length										
	change pattern in patients with patellar dislocation using open-		١.		_	١.		١.	١.	١.	_
Arai et al.	MRI.	Case control	1	0	0	1	0	1	1	1	5
Arendt et al.	An analysis of knee anatomic imaging factors associated with primary lateral patellar dislocations.	Cohort	1	1	1	1	0	0	1	1	6
Alenat et al.	Vastus medialis obliquus muscle morphology in primary and	Conon		<u> </u>	<u>'</u>		•			<u> </u>	
Balcarek et al.	recurrent lateral patellar instability	Case control	1	1	0	1	1	0	1	1	6
	Geometry of Torsional Malalignment Syndrome: Trochlear						-				
Balcarek et al.	Dysplasia but Not Torsion Predicts Lateral Patellar Instability.	Case control	1	1	0	0	1	0	1	1	5
	Influence of tibial slope asymmetry on femoral rotation in										
Balcarek et al.	patients with lateral patellar instability.	Case control	1	1	1	_	2		1	1	8
Bamett et al.	Patellar height measurement in trochlear dysplasia.	Case control	1	1	0	0	0	1	0	0	3
	The lateral condyle index: A new index for assessing the										
Diadort at al	length of the lateral articular trochlea as predisposing factor for	Case control	1	1	1	1	0	1	1	1	7
Biedert et al.	patellar instability	Case control	<u>'</u>	<u> </u>	<u>'</u>	<u> </u>	0	- 1		<u>'</u>	· ·
Biedert et al.	Anterior-posterior trochlear measurements of normal and dysplastic trochlea by axial magnetic resonance imaging.	Case control	1	1	1	1	0	0	1	1	e
Diodoit of di.	dysplactic teerings by axial magnetic reconding magnig.	Cuco control	_	<u> </u>	<u> </u>	Τ.		Ť		<u> </u>	Ť
	The Tibial Tubercle-to-Trochlear Groove Distance Is Reliable in										
	the Setting of Trochlear Dysplasia, and Superior to the Tibial										
	Tubercle-to-Posterior Cruciate Ligament Distance When										
Brady et al.	Evaluating Coronal Malalignment in Patellofemoral Instability.	Case control	1	1	1	1	2	1	1	1	9
	Clinical Utility of Continuous Radial Magnetic Resonance										
	Imaging Acquisition at 3 T in Real-time Patellofemoral										
Burke et al.	Kinematic Assessment: A Feasibility Study	Case control	1	1	1	1	1	0	1	1	7
	The trochlear isometric point is different in patients with										
	recurrent patellar instability compared to controls: a		١.,	١.	١.,	١.,				١.	
Campos et al.	radiographical study.	Case control	1	1	1	1	2	0	1	1	8
	Ratio of the tibial tuberosity-trochlear groove distance to the										
	tibial maximal mediolateral axis: A more reliable and										
Cao et al.	standardized way to measure the tibial tuberosity-trochlear groove distance	Case control	1	1	1	1	2	0	1	1	۱ 8
Cao et al.	gioove distance	Case control	<u> </u>	<u>'</u>	<u>'</u>	-		•	<u>'</u>	<u> </u>	
	Is tibial tuberosity–trochlear groove distance an appropriate										
Caplan et al.	measure for the identification of knees with patellar instability?	Case control	1	1	1	1	2	1	1	1	9
•	Magnetic resonance imaging-based topographical differences										
	between control and recurrent patellofemoral instability										
Charles et al.	patients	Case control	1	1	1	_	0		1		6
Chassaing et al.	Tibial tubercle torsion, a new factor of patellar instability.	Case control	1	1	1	1	0	0	1	1	6
	Mapping the contact area of the patellofemoral joint: the					١.					
Clark et al.	relationship between stability and joint congruence.	Case control	1	1	0	1	2	0	1	1	7
	The relationship between quadriceps angle and tibial										
Cooney et al.	tuberosity-trochlear groove distance in patients with patellar instability	Case control	1	1	1	١,	2	0	1	1	8
Daynes et al.	Tibial Tuberosity-Posterior Cruciate Ligament Distance.	Case control	0	_		0		_		<u> </u>	
Daynes et al.	Medial patellofemoral ligament anatomy: is it a predisposing	Cusc control	Ť			Ť		Ť			
de Oliveira et al.	factor for lateral patellar dislocation?	Case control	1	1	1	1	0	0	1	1	6
	The introduction of a new MRI index to evaluate sagittal										
Dejour et al.	patellofemoral engagement.	Case control	1	1	1	1	2	0	1	1	8
	Imaging characteristics of contralateral asymptomatic										
Demehri et al.	patellofemoral joints in patients with unilateral instability.	Case control	1	1	1	1	2	1	0	1	8
	Are metric parameters sufficient alone in evaluation of the										
	patellar instability? New angular measuring parameters: The										
	trochlear groove-patellar tendon angle and the trochlear		١.,		١.	١.,				١.	_
Deveci et al.	groove-dome angle	Case control	1	0	1	1	2	0	1	1	7
Diederichs et al.	Magnetic resonance imaging analysis of rotational alignment in patients with patellar dislocations.	Case control	1	1	1	1	2	0	1	1	8
Dieueilona et al.	Evaluation of trochlear dysplasia severity using trochlear	Jase Contion	- '	- '	<u> </u>	 	2		- '	 '	-
	angle: A retrospective study based on computed tomography										
Dong et al.	(CT) scans	Case control	1	1	1	1	2	1	1	1	9
	Measurement of tibial tuberosity-trochlear groove distance:		Ė	Ė	T.	Ė					<u> </u>
	evaluation of inter- and intraobserver correlation dependent										
Domacher et al.	on the severity of trochlear dysplasia.	Case control	0	1	0	1	0	1	1	1	5
	Influence of posterior lateral femoral condyle geometry on										
Gillespie et al.	patellar dislocation.	Case-Control	1	1	1	1	1	1	1	1	8
	Axial MRI index of patellar engagement: A new method to										
Guilbert et al.	assess patellar instability	Case-Control	1	1	1	1	0	1	1	1	7
	The contribution of the tibial tubercle to patellar instability:										
	analysis of tibial tubercle-trochlear groove (TT-TG) and tibial			_	_		_		_	_	
Heidenreich et al.	tubercle-posterior cruciate ligament (TT-PCL) distances	Cohort	1	0	0	1	0	1	1	1	

	I	ı			_						
	Individualizing the tibial tubercle to trochlear groove distance										
Heidenreich et al.	to patient specific anatomy improves sensitivity for recurrent instability.	Cohort	1	1	1	1	0	1	1	1	7
Tionadinion of an	Patellar Tendon-Trochlear Groove Angle Measurement: A New					Ţ,					
Hinckel et al.	Method for Patellofemoral Rotational Analyses.	Cohort	1	1	1	1	0	1	1	1	7
Linebal et al	Are the osseous and tendinous-cartilaginous tibial tuberosity-	Cons Control	_		١,				1		_
Hinckel et al.	trochlear groove distances the same on CT and MRI? The TT-TG Index: a new knee size adjusted measure method	Case-Control	0	1	1	1	0	0	1	1	5
Hingelbaum et al.	to determine the TT-TG distance.	Case-Control	0	0	1	1	0	1	1	1	5
17	Prevalence and patterns of anatomical risk factors in patients	0		_	١.	١.					
Köhlitz et al.	after patellar dislocation: a case control study using MRI. A new quantitative radiographic measurement of patella for	Case-Control	1	0	1	1	2	1	1	1	8
	patellar instability using the lateral plain radiograph: 'patellar										
Kuroda et al.	width ratio'	Case-Control	1	1	1	1	2	1	1	1	9
	Quantitative magnetic resonance imaging in patellar tendon-										
Li et al.	lateral femoral condyle friction syndrome: relationship with subtle patellofemoral instability.	Case-Control	1	1	1	1	0	1	1	1	7
	Comparative study of magnetic resonance imaging (MRI)										
	parameters in a Southeast Asian population with symptomatic										
Lim et al.	patellofemoral instability.	Case-Control	1	1	1	1	1	1	1	1	8
	Medial retinaculum plasty versus medial patellofemoral ligament reconstruction for recurrent patellar instability in										
Ma et al.	adults: a randomized controlled trial	Cohort	1	1	1	1	2	1	1	1	9
	Value of CT scan-assessed tibial tuberosity-trochlear groove										
Mohammadinejad		Case-Control	1	1	1	1	2	1	1	1	9
Munch et al.	Patellar Articular Overlap on MRI Is a Simple Alternative to Conventional Measurements of Patellar Height.	Cohort	1	1	1	1	1	1	1	1	8
Mulicii et al.	Radiographic parameters associated with lateral patella	COHOIL		<u>'</u>		<u> </u>					
Noehren et al.	degeneration in young patients	Cohort	1	1	1	1	2	1	1	1	9
	Middle patellar tendon to posterior cruciate ligament (PT-PCL)										
Pozzi et al.	and normalized PT-PCL: New magnetic resonance indices for tibial tubercle position in patients with patellar instability.	Case-Control	1	1	1	1	0	1	1	1	7
	Medial patellofemoral ligament reconstruction fails to correct	0000 0011001	Ċ			Ė					
	mild patella alta in cases of patellofemoral instability—a case-										
Roessler et al.	control study	Case-Control	1	1	1	1	2	1	1	1	9
Roger et al.	Short lateral posterior condyle is associated with trochlea dysplasia and patellar dislocation.	Case-Control	1	1	1	1	1	1	1	1	8
rtogor ot di.	Use of computed tomography to determine the risk of patellar	Cuso Control	Ť.	<u> </u>		Ť.					
Schueda et al.	dislocation in 921 patients with patellar instability.	Case-Control	1	1	1	1	1	0	0	1	6
Seitlinger et al.	The position of the tibia tubercle in 0°–90° flexion: comparing patients with patella dislocation to healthy volunteers	Case-Control	1	1	1	1	2	1	1	1	9
Commigor of an	Tibial tubercle-posterior cruciate ligament distance: a new	Cubb Control	Ť.	<u> </u>		Ť.					
	measurement to define the position of the tibial tubercle in										
Seitlinger et al.	patients with patellar dislocation.	Cohort	1	1	1	1	2	1	1	1	9
	Inter- and intraobserver reliability in the MRI measurement of the tibial tubercle-trochlear groove distance and trochlea										
Skelley et al.	dysplasia.	Cohort	1	1	1	1	1	1	1	1	8
	Alignment in the transverse plane, but not sagittal or coronal										
Takagi et al.	plane, affects the risk of recurrent patella dislocation.	Cohort	1	1	1	1	1	1	1	1	8
	What components comprise the measurement of the tibial tuberosity-trochlear groove distance in a patellar dislocation										
Tensho et al.	population?	Case-Control	1	1	1	1	2	1	1	1	9
	Lateralization of the Tibial Tubercle in Recurrent Patellar										
Tensho et al.	Dislocation	Case-Control	1	1	1	1	2	1	1	1	9
	Conventional Padiographs and Magnetic Processing										
	Conventional Radiographs and Magnetic Resonance Imaging for the Analysis of Trochlear Dysplasia: The Influence of										
Tscholl et al.	Selected Levels on Magnetic Resonance Imaging.	Cohort	1	0	1	0	0	1	1	1	5
	Incidence and radiologic predictor of postoperative patellar										
Tsuda et al.	instability after Fulkerson procedure of the tibial tuberosity for recurrent patellar dislocation.	Case-Control	1	1	1	1	0	1	0	0	5
. Juda ot al.	Axial linear patellar displacement: a new measurement of	Case Condo	<u> </u>	<u>'</u>		Γ,	•		- 3	,	,
Urch et al.	patellofemoral congruence.	Cohort	1	1	1	1	0	1	1	1	7
	Quantification Of Trochlea Dysplasia Via Computed Tomography: Assessment Of Morphology Difference Between										
Voss et al.	Control And Chronic Patellofemoral Instability Patients	Case-Control	1	1	1	1	0	1	1	1	7
	Excessive lateral patellar translation on axial computed										
Xue et al.	tomography indicates positive patellar J sign.	Case-Control	1	1	1	1	2	1	1	1	9

Yamada et al.	Correlation of 3D Shift and 3D Tilt of the Patella in Patients With Recurrent Dislocation of the Patella and Healthy Volunteers: An In Vivo Analysis Based on 3-Dimensional Computer Models.	Case-Control	1	0	(0	1	1	1	0	1	5
Yi et al.	Femoral Trochlear Groove Morphometry Assessed on Oblique Coronal MR Images.	Case-Control	1	1		1	1	2	1	1	1	9
Yue et al.	Patellar Height Measurements on Radiograph and Magnetic Resonance Imaging in Patellar Instability and Control Patients.	Cohort	1	1		1	0	0	1	1	1	6
Zheng et al.	Surgical medial patellofemoral ligament reconstruction versus non-surgical treatment of acute primary patellar dislocation: a prospective controlled trial	Cohort	1	1		1	1	2	1	1	1	9
Crebs et al.	Effectiveness of Fulkerson Osteotomy with Femoral Nerve Stimulation for Patients with Severe Femoral Trochlear Dysplasia	Cohort	1	0		1	1	0	1	1	1	6

7.16667

Cochrane Risk-of-Bias Assessment for Randomized Controlled Trials

Author	Title	Doma	ain 1			Domain 2 Domain 3 Domain 4										Domain 5				overall risk of bias									
		1.1	1.2	1	total	2.1	2.2	2.3	2.4	2.5	2.6	2.7	total	3.1	3.2	3.3	3.4	total	4.1	4.2	4	4.4	4.5	total	5.1	5.2	5.3	total	overall risk of blas
	Comparison of 2 different																												
	techniques for anatomic																												
	reconstruction of the medial																												
	patellofemoral ligament: a																												
Kang et al.	prospective randomized study	Υ	PY	N	low risk	PY	Y	N	NA	NA	Y	NA	low risk	Υ	NA	NA	NA	low risk	N	N	PY	PY	PN	some concerns	Y	N	N	low risk	some concems
	Lateral retinaculum plasty instead of																												
	lateral retinacular release with																												
	concomitant medial patellofemoral																												
	ligament reconstruction can achieve																												
Liu et al.	better results for patellar dislocation	Υ	NI	N	low risk	PY	Y	N	NA	NA	Y	NA	low risk	Υ	NA	NA	NA	low risk	N	PN	PY	PY	PN	some concerns	Y	N	N	low risk	some concems
	Evaluation of different surgical																												
	methods in treating recurrent patella																												
	dislocation after three-dimensional																												
Du et al.	reconstruction	NI	NI	PN	some concers	PY	Y	N	NA	NA	Y	NA	low risk	Y	NA	NA	NA	low risk	N	PN	PY	PY	PN	some concerns	Y	N	N	low risk	some concems

Joanna Briggs Critical Appraisal Tool for Case-Series

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The state of the Command With Translation of the Command With	Authors		Type of Stud	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Assessment
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Company Comp	Falkowski et a		Case Selles	162	Officieral	165	Officieal	165	162	1 65	162	140	162	LOW RISK
The set al. (1995) The control of th														
Comment Comm	Ferlic et al.	Analysis	Case Series	Yes	Unclear	Yes	Unclear	Yes	Yes	No	Yes	No	Yes	Low Risk
The part														
Control of the cont	Empeioni et e		Casa Sadaa	V	Vaa	Vaa	Van	Van	Vaa	Vaa	Vac	Nie	Vaa	Law Diek
Land State	Franciozi et a		Case Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	LOW RISK
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Command Comm	Graf et al.		Case Series	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Low Risk
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Registration Regi	Hevesi et al.		Case Series	Yes	Yes	Unclear	Unclear	Unclear	Yes	No	Yes	No	Yes	Low Risk
Page Page														
When the control and forth times are accommended to the control of	Lliaushi et el		Casa Sadaa		Vaa	Vaa	No	No	Vaa	No	Vaa	Nie	Vaa	Law Diek
The first TYTO distances on the Bill of the TYTO distances on the Bill of the STYTO DISTANCES OF THE BILL	riguent et al.		Case Series	NO	res	res	INO	INO	res	NO	res	NO	res	LOW PUSK
Common C														
Section of this Induces you of Inchinate Comparison of			Case Series	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low Risk
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Late at al. 10 Conformation (Control Laguerone Reportation For Conformation (Control Laguerone Reportation For Control Laguerone Report Reportation For Control Laguerone Reportment Reportation For Control Laguerone Reportation For Control Lague	Kukaiii et al.		Case Selles	163	163	103	140	140	163	140	163	140	103	LOWINSK
List at al. The Theodor Depoles and Authority of the Company of th														
A direct and indicagnosis agrocomic form with the control income of the control income o														
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Security														
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Designation	Niimoto et al.		Case Series	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Low Risk
Description Content														
Comparison of nathee axis indicipages with patients with trothler of the image for determination of the patient of the patie	Ortug et al		Case Series	Yes	Yes	Yes	Unclear	Unclear	Yes	No	Yes	Yes	Yes	Low Risk
axial MR imaging for determination of the morphology in patients with throthly and the morphology and the mo	Ortag et al.		Case Celles	103	103	103	Officical	Officical	103	140	103	103	103	LOWIGSK
Saleman of Symplasts Case Series O Yes Yes O O Yes O No O No Yes O No O No Yes O No O N		axial MR imaging for determination of the												
Médisfe bio long-term outcome after medial patient for patients of														
patelly-ferronii il gjament reconstruction with Inspiration of the protein and provided and growing an	Saizmann et a		Case Series	no	res	res	no	no	res	no	res	no	res	LOW RISK
Similar and instability and instability and instability and instability. The littre and inferrales reliability of X-ray limitability. Case Series Ves														
The intra- and inter-rate milibelity of X-ray middle in the moral of t														
mail: mail	Shimizu et al.		Case Series	Yes	Unclear	Yes	Unclear	Unclear	Yes	no	yes	no	Yes	Low Risk
Same at al. Instability treated with distal ferrors. Same and Patellity treated with distal ferrors. Same and Patellity treated with distal ferrors. Same and Patellity treated with distal ferrors. The process of														
Patient ratability readed with distal femoral Clase Series Yes	Smith et al.		Case Series	Unclear	Yes	Yes	Yes	Yes	Yes	Yes	no	no	Yes	Low Risk
Corestation between Changes in Tibbal Tuberosty-Trochlear Grower Detainson and Patislar Position during Active Knee Patislar Position during Patislar Position of the medial patelolemoral Ignament and reinforcement of the Ignament and reinforcement		Patellar instability treated with distal femoral												
Tuberosky-Trochlard Groove Distance and Palatise Position during Active Knee Edemision on Dynamic Kinematic Computed Case Series Ves Yes Yes Yes Yes No no no Yes Low Risk Tanaka et al. Trochage and the Computed Case Series Ves Yes Yes Yes Yes No no no Yes Low Risk Media patisolemoral ispanent reconstruction resolution and the medial patisolemoral spanent reconstruction resolution and patisolemoral spanent reconstruction resolution and the medial patisolemoral spanent reconstruction resolution and the medial patisolemoral spanent is an effective treatment of the medial patisolemoral spanent is an effective treatment of the medial patisolemoral spanent and eninonement of the medial patisolemoral installative with patisis aliab Clinical Accuracy of J-Sign Measurement Case series Ves No No Yes Yes Yes Yes Yes Yes Undear Yes Low Risk Case series Ves Yes Yes Yes Yes Yes Yes No no no Yes Low Risk Case series Ves Yes Yes Yes Yes Yes No no no Yes Low Risk Case series Ves Yes Yes Yes Yes No No Yes No No No No Yes	Swarup et al.		Case Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	no	Yes	Low Risk
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Extension on Dynamic Kinematic Computed A combined procedure with Berefer-type to cheloplasty leads to a stable patelofemoral joint at 5-year follow-up Mind et al. I more follow-up and the cheloplasty leads to a stable patelofemoral joint at 5-year follow-up and the computed of the medial patelofemoral ligament and reinforcement of the med														
A combined procedure with Benefetr-type tropic of the data of the complex of the data of the complex of the comple		Extension on Dynamic Kinematic Computed												
trochisoplasty leads to a stable pateIofemoral (at 5-year follow-up) Mind at all (in 14 5-year follow-up) Modard set (in	Tanaka et al.		Case Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	no	no	Yes	Low Risk
And at al.														
Media patelofemoral spament reconstruction modes radiography measures of patels at a local patelofemoral patels and spament and reinforcement of the medial patelofemoral planement and reinforcement	Wind et al.		Case Series	Yes	Yes	Yes	Yes	Yes	no	no	yes	no	Yes	Low Risk
Accordance of the medial patellofemoral ignament and reinforcement of the medial patellofemoral ignament and reinforcement of the medial patellofemoral ignament and reinforcement of the medial patellofemoral islandistory with patella alta		Medial patellofemoral ligament reconstruction									,			
Reconstruction of the medial patelofemoral ingenent and reinfoctive treatment of the patelogy														
ligament and reinforcement of the medial patellotibial Igament is an effective treatment frang et al. for patellotemoral instability with patella alta Case series Ves No No Yes Yes Yes Yes Yes Ves Dincient Yes Low Risk Compared to Magnetic Resonance Imaging. Anatomical factors of J-Sign Measurement Signature and the Case series Ves Yes Yes Yes Yes Yes Yes No No No Yes No No No Yes Low Risk Rational Case series Unclear No No No Yes Yes Yes Yes No No No Yes Low Risk Rational Case series Unclear No No No Yes No Yes No No No Yes Low Risk Rational Case series Ves No No No Yes No No Yes No Yes No No Yes No Yes No Yes No No Yes No Yes No No Yes No Yes No No No No Yes No No Yes No Yes No No No	Woodmass et		Case Series	Yes	unclear	unclear	Yes	Yes	yes	no	no	no	yes	Low Risk
patellotibal ligament is an effective treatment fange at al. Case series and the patellotion of the patellot														
Cinical Accuracy of J-Sign Measurement, Case series Ves Yes Yes Yes Yes Yes Yes Yes No No No Yes Low Risk Antomical factors influencing patellar actions influencing patellar and the patellar instable pateller formation of the bial tuberosity-trochear Case series Yes Yes Yes Yes Yes Yes Yes Yes No No Yes No Yes Low Risk Compation of the tibial tuberosity-trochear Case series Yes Yes Yes Yes Yes Yes Yes Yes Yes Y		patellotibial ligament is an effective treatment												
Sackert et al. Companed to Magnetic Resonance Imaging. An Anabronical factoris influencing patelar Byani et al. Itacking in the unstable patelofermoral joint Plateau-patela angle: An option for the evaluation of patellar height in patients with Bonadio et al patellar instability. Case series Ves. Yes. Yes. Yes. Yes. No. No. No. No. Yes. High Risk Low Risk Anthroscopic lateral retinacular release, medial refinacular pictation and parish medial tibial tubercle transfer for recurrent patellar Case series Ves. Yes. Yes. Yes. Yes. Unclear no. no. no. No. Yes. No. Yes. No. Yes. Low Risk Correlation of the tibial tubercle transfer for recurrent patellar refinacular pictation and parish medial tibial tubercle transfer for recurrent patellar Case series Ves. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Y			Case series	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Low Risk
Anatomical factors influencing patellar of tacking in the unstable patelle formal joint to class series and in the control of			Case series	Yes	Ves	Yes	Yes	Yes	Ves	Yes	no	no	Yes	Low Rick
3)ayani et al. Itacking in the unstable patelofemoral joint Case series unclear no	Section of al.		3000 001100						. 55					
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