Concerning to the cartilage defect localization we develop five different cartilage defect region groups. Group 1 (medial femoral, n = 15), Group 2 (lateral femoral, n = 10), Group 3 (trochlear, n = 10), Group 4 (retropatellar, n = 8) and Group 5 (combinied defect regions, n = 9). The follow up examination shows in all five groups a signifivant rise concerning to the subjective und objective IKDC2000 score after ACT treatment (p < 0.001). The subjective part of the IKDC2000 score shows significant poorly post-operatively results for the patients in the groups 4 and 5 than in the groups 1, 2, 3 (p < 0.001), where as there is no significant difference betwenn the 5 groups pre-operatively. Regarding to the objective part of the IKDC2000 score with a view to the chondral leasion area there are no significant differences between the pre and postoperative evaluated IKDC2000 scoure values (p < 0.001).

Conclusions: The presented data indicate autologous chondrocyte transplantation as an effective and safe option for the treatment of large full thickness cartilage defects in knee joints with significant better subjective results for patients with cartilage defects in the medial or femoral condyle and trochlear region than in retropatellar or combinied cartilage leasion regions.

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IS RADIOLOGY A DETERMINANT OF PAIN, STIFFNESS AND FUNCTIONAL DISABILITY IN KNEE OSTEOARTHRITIS?

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Purpose: There is a widespread belief of discordance between clinical and radiological features of knee osteoarthritis (KOA). This discordance has been reported by many and the possible explanations have also been given. Much emphasis has being given to lack of uniformity and understanding of X-ray views and to patello-femoral arthritis being overlooked. Although many factors may be available for study on X-ray's, it is surprising to note that majority of studies citing discordance have studied only those radiological features which are incorporated in KL grades – viz. osteophytes, joint space width (JSW), subchondral sclerosis and tibio-femoral alignment(TFA). Radiological anomalies in KOA may not be limited to these four and other features in and around the joint also need to be studied before citing a definite comment on discordance or consonance between clinical and radiographic KOA.

We hypothesized that the discordance could be due to limited radiological variables studied. This study has essentially analyzed many more radiological features than in previous studies to seek an association between clinical and radiographic features

Methods: This cross-sectional study consists of men and women aged 40 years or more who fulfilled ACR clinical and radiographic criteria for KOA. For inclusion, patients were required to have knee pain of more than 6 months duration and at least one pain dimension of the WOMAC pain score above 20%. 180 cases of primary KOA could be enrolled for the study. VAS for knee pain and knee specific WOMAC index for pain, stiffness and disability were recorded. Five additional radiological features apart from those in KL grading system were recorded by two authors who were blinded to the clinical diagnosis. The variables significantly associated were analyzed by linear regression model.

Results: Pain was significantly associated with increasing KL Grades, physical function was nearly significant and stiffness was not. On analysis of individual radiological features, WOMAC-pain was significant with subchondral sclerosis, joint space width and Tibio-femoral alignment although the correlation was week. VAS-pain was significant with later two and also with articular incongruity. Functional disability was associated with medial joint space narrowing, tibiofemoral alignment, loose bodies and juxtra articular osteopenia. However in linear regression model pain and stiffness were significantly associated with articular incongruity; functional disability and total clinical scores with juxtarticular osteopenia

Conclusions: The causation of knee pain in OA has been extensively studied although discordance has been noted between its clinical and radiographic profile. This study was undertaken to resolve a much debated issue as to why clinical features do not correlate significantly with radiological. The discordance noted by many authors is primarily due to the limitations of outcome measures in their study. When the radiological variables were extended beyond those included in KL Grades, articular incongruity manifesting as diminished Medial-joint space width and Tibiofemoral alignment, was a truer representative of pain and

stiffness whereas juxtaarticular osteopenia correlated well with physical disability and clinical severity.

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QUALITY OF LIFE'S IMPAIRMENT BY MOOD DISORDERS IN NECK OSTEOARTHRITIS PATIENTS

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Purpose: to assess the presence of mood disorders (MD) and its influence on neck osteoarthritis (NO) patients' symptoms.

Methods: design-descriptive and prospective. Inclusion criteria: NO patients diagnosed by grade I-II-III of the Kellgren-Lawrence X-Ray, score from the Institut Ferran de Reumatología (Clínica CIMA, Barcelona) outpatient clinics from January 2008 to June 2009. We also collected the number of cervical spine levels impaired by X-Ray. Patients with major psychiatric disorders already diagnosed (Depression, Anxiety) were excluded. We collected the following data to assess NO symptoms and psychological symptoms (mood disorder symptoms): NECK score (neck pain and neck disability, quality of life (SF36), anxiety and depression (CES-D, Hamilton, STAI). Patient's follow-up lasted 12 months, and all data were collected at baseline and at the end of the study. SPSS v.17 was used to compare and correlate all means by t-Student, Wilcoxon and Spearman measures.

Results: 15 NO patients were recruited (14 women). Mean age 55.6 years (\pm 7.18). Symptomatology onset 46.93 years (\pm 7.47), mean time of evolution at first evaluation visit 8.06 years (\pm 5.20). 40% of patients had had sick-leave from work. The higher the levels of NO affected, the higher the rate of disability (p = 0.006).

Higher (worse) scores of both mood disorder symptoms and quality of life in those patients who had higher intensity and duration of neck pain (p < 0.05).

Test	X±SD		Р
	Baseline visit	12-month follow-up visit	
NECK	38.21±14.75	22.36±18.77	0.004*
HAD-A	$7.64{\pm}5.09$	7.27±4.12	0.809
HAD-D	$5.42{\pm}5.38$	4.27±5.15	0.552
CES-D	$18.92{\pm}12.30$	16.81±11.47	0.284
STAI-E	53.75±31.92	38.86±30.63	0.047*
SF36 DC	45.50±17.23	56.54±26.77	0.017*
SF36 RF	67.85±37.24	59.09±42.23	0.474
SF36 SM	$59.14{\pm}24.21$	71.27±23.37	0.024

Conclusions: the aim of our study was to enhance the importance of NO in our comminuty. It reflects a painful condition that can affect quality of life, work and mood. In our study, we observed minor anxious and depressive symptoms in NO patients. It exists an association between the intensity and duration of NO symptoms and the presence of mood disorder symptoms. Disability and work interference is associated with the presence of pain and the higher number of NO levels impaired, but not to the presence of mood disorder symptoms. The low amount of patients was due to the strict inclusion criteria, and larger group of patients will be needed in order to confirm these preliminary data.

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THE RELATIONSHIP BETWEEN OBESITY AND FOOT PAIN IS RELATED TO FAT MASS AND FAT DISTRIBUTION BUT NOT MUSCLE MASS

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Purpose: To examine the relationship between obesity, body composition and foot pain as assessed by the Manchester Foot Pain and Disability Index (MFPDI).

Methods: 136 subjects aged 25–62 years were recruited as part of a study examining the relationship between obesity and musculoskeletal health. Foot pain was defined as current foot pain and pain in the last month, and an MFPDI score of \geq 1. Body composition (tissue mass and fat distribution) was measured using dual energy x-ray absorptiometry.