

Variable / Field Name	Field Label	Coding
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**Pheno1:** This dataset includes core clinical data for the consortium samples including demographic and radiographic information. It is cross-sectional (typically relating a baseline sample)

<b>sf_knee_sample_id_number</b>	The STEpUP OA Sample Identification Number (SIN)	String
<b>stepup_id</b>	The STEpUP OA STEpUP Participant Identification Number (PIN)	String
<b>cohort_name</b>	Cohort ID (an arbitrarily chosen integer assigned to each cohort)	Integer
<b>sf_knee_qc_group</b>	Patient grouping (OA, joint injury or control) at baseline.	0 = OA, 1 = Joint injury, 2 = healthy control, 3 = inflammatory control, NA = missing
<b>age_sampling</b>	Age of participant at time of SF sampling	Integer (NA=missing)
<b>sex</b>	Sex	m, Male   f, Female
<b>bmi_sampling</b>	Patient body mass index at the time the sample was taken (calculated from provided height and weight or directly provided by cohort collector, in that order of preference)	Float
<b>kl_grade_worst</b>	Kellgren-Lawrence grade of radiographic severity at time of sampling (worst affected compartment)	0 = grade 0 (none), 1 = grade 1 (doubtful), 2 = grade 2 (minimal), 3 = grade 3 (moderate), 4 = grade 4 (severe), NA = Missing OR Not Known
<b>radiographic_knee_oa</b>	Flag indicating whether the sample was taken from a patient with radiographic OA in the index knee, defined as a KL grade greater or equal to two at time of sampling.	0 = No (i.e. KL ≤ 2), 1 = Yes (i.e. KL ≥ 2), NA = Missing OR Not Known
<b>kl_grade_advanced</b>	Flag indicating whether the sample was taken from a patient with advanced radiographic OA in the index knee, defined as a KL grade greater or equal to three at time of sampling.	0 = No (i.e. KL < 3), 1 = Yes (i.e. KL ≥ 3), NA = Missing OR Not Known
<b>smoking_history</b>	Flag indicating whether the patient was a current or past smoker at the time of the baseline sample	0 = No (i.e. never smoked), 1 = Yes (i.e. current smoker or past smoker), NA = missing or not available
<b>baseline</b>	Flag indicating whether the SF sample included in the primary analysis (i.e. the earliest available sample for the participant) is from baseline (V1) visit, or a later visit.	0 = No, 1 = Yes

**Pheno2:** This dataset includes the continuous and binary patient-reported pain data for the consortium samples. It is cross-sectional (typically relating a baseline sample)

<b>sf_knee_sample_id_number</b>	The STEpUP OA Sample Identification Number (SIN)	String
<b>stepup_id</b>	The STEpUP OA STEpUP Participant Identification Number (PIN)	String
<b>harm_knee_pain</b>	Binary flag indicating whether experienced pain is above the Patient Acceptable Symptom State (PASS) at the time of sampling (calculated manually from the KOOS pain subscale, the WOMAC pain subscale or knee VAS ( knee-specific NRS/VAS or painDETECT VAS, in order of preference). Yes vs No	0 = No (acceptable pain), 1 = Yes (unacceptable pain), NA = missing or Not Available
<b>harm_pain_prom</b>	The specific patient reported outcome measure used to derive harm_knee_pain.	1 = KOOS, 2 = WOMAC, 3 = Knee specific VAS/NRS, 4 = PainDETECT VAS, NA=missing
<b>koos_pain</b>	KOOS pain subscore (calculated from full KOOS questionnaire results, or from combined subscore provided by cohort collectors, in that order of preference). Scale of 0-100, where 0 is the worst possible pain imaginable.	Float
<b>womac_pain</b>	WOMAC pain subscore (calculated from full WOMAC questionnaire results, or from combined subscore provided by cohort collectors, or derived from full KOOS questionnaire results, in that order of preference). Scale of 0-100, where 100 is the worst possible pain imaginable.	Integer
<b>knee_pain_nrs</b>	Patient reported knee pain on a Numeric Rating Scale (0-10), where 10 is the worst pain imaginable	Float
<b>pd_pain_average_score</b>	Patient reported average pain score (over the last 4 weeks) from the painDETECT questionnaire. Scale of 0-10, where 10 is the worst pain imaginable.	Integer

**QA:** This dataset includes sample information used to carry out quality assessment on the synovial fluid samples

<b>sf_iknee_sample_id_number</b>	The STEpUP OA Sample Identification Number (SIN)	String
<b>stepup_id</b>	The STEpUP OA STEpUP Participant Identification Number (PIN)	String
<b>age_sampling</b>	Age of participant at time of SF sampling	Integer (NA = missing)
<b>sl_plate_id</b>	ID of plate the sample was run on	String
<b>sl_plate_run_date</b>	Date that the sample was run	String ("YYYY-MM-DD")
<b>sl_plate_position</b>	Position of the sample on the 96-well plate	String ("XN", where X is row letter and N is the column number)
<b>sl_scanner_id</b>	ID of the scanner that the sample was read using	String
<b>sl_tranche_number</b>	Tranche number	1 = tranche 1, 2 = tranche 2
<b>sl_bimodal_signal</b>	The technical bimodal signal, strongly correlated with processing batch, used to batch-correct the data.	Bimodal1, bimodal2 - arbitrary labels for the two groups. NA=missing
<b>sf_iknee_proc_batch</b>	Batch number for index knee sample	Integer (NA = missing)
<b>sf_iknee_proc_order</b>	Processing order number for index knee sample	Integer (NA = missing)
<b>sf_iknee_proc_treat_date</b>	Date sample was hyaluronidase treated by KIR	Text (dd-mm-yyyy)
<b>sf_iknee_qc_group</b>	Patient grouping (OA, joint injury or control) at baseline.	0, OA   1, Injury   2, Control   3, Inflammatory arthritis control
<b>cohort_name</b>	Cohort ID (an arbitrarily chosen integer assigned to each cohort)	Integer
<b>sex</b>	Sex	m, Male   f, Female
<b>sample_age</b>	Time between date of sample collection and date of STEpUP OA sample processing for the index knee (years)	Float (years) (NA=missing)
<b>sf_iknee_volume</b>	Total volume of SF collected (ml)	Float (ml)
<b>sf_iknee_prev_freeze_thaw</b>	Has the sample been freeze-thawed (prior to transfer)?	0, No   1, Yes   2, Not known
<b>sf_iknee_freezethaw_cycles</b>	Number of freeze-thaw cycles (if known)	
<b>sf_iknee_freezethaw_spec</b>	Indicates whether the sample has been freeze-thawed less than, or greater to or equal to five times.	0 = <5, 1 = ≥5, NA = missing
<b>sf_iknee_bloodstaining</b>	Grading of SF bloodstaining prior to centrifugation (if known). Scale of 1-4, with larger numbers corresponding to greater degrees of blood staining.	1 = None , 2 = Mild, 3 = Moderate, 4 = Severe, NA = Not known
<b>sf_spun_vs_unspun</b>	Indicator for whether the sample was centrifuged prior to receiving at KIR	0 = unspun, 1 = spun, 2 = not known

**PDR2:** This dataset includes additional key variables and available longitudinal pain outcome data, the Knee Injury and Osteoarthritis Outcome Score (KOOS) for all injury cohorts

<b>stepup_id</b>	The STEpUP OA Sample Identification Number (SIN)	String
<b>sf_iknee_sample_id_number</b>	The STEpUP OA STEpUP Participant Identification Number (PIN)	String
<b>redcap_event_name</b>	An internal field held within REDCap which corresponds to study visit	String
<b>cohort_name</b>	Cohort ID (an arbitrarily chosen integer assigned to each cohort)	Integer
<b>subcohort_name</b>	Subcohort ID (an arbitrarily chosen string assigned to each subcohort)	String
<b>bmi_sampling</b>	Patient body mass index at the time the sample was taken (calculated from provided height and weight or directly provided by cohort collector, in that order of preference)	Float
<b>age_sampling</b>	Age of participant at time of SF sampling	Integer (NA=missing)
<b>current_smoking</b>	Flag indicating whether the patient was a current or past smoker at the time of the baseline sample	0 = No (i.e. not a smoker at the time of SF sampling), 1 = Yes (i.e. current smoker at the time of SF sampling), 2 = Unknown
<b>presence_oa_other</b>	Presence of OA at other non-knee sites	0, No   1, Yes   2, Not Known
<b>hip_oa</b>	Presence of hip OA	4, Yes - Clinician assessment   5, Yes - Self reported   6, Yes - Radiographic   7, No - Clinician assessment   8, No - Self reported   9, No - Radiographic   10, Not known
<b>hand_oa</b>	Presence of hand OA	4, Yes - Clinician assessment   5, Yes - Self reported   6, Yes - Radiographic   7, No - Clinician assessment   8, No - Self reported   9, No - Radiographic   10, Not known

<b>hand_oa_nodal</b>	Presence of nodal hand OA	4, Yes - Clinician assessment   5, Yes - Self reported   6, Yes - Radiographic   7, No - Clinician assessment   8, No - Self reported   9, No - Radiographic   10, Not known
<b>general_oa</b>	Presence of generalised OA, defined by OA >3 sites	4, Yes - Clinician assessment   5, Yes - Self reported   6, Yes - Radiographic   7, No - Clinician assessment   8, No - Self reported   9, No - Radiographic   10, Not known
<b>post_menopausal</b>	Post-menopausal at Baseline (V1) SF sample? :: Female being ≥1 year after their last menstrual period (for those not on hormonal treatments or using a Mirena IUD) or else from the time of a confirmed bilateral oophorectomy.	0, No   1, Yes   2, Not Known
<b>ever_diagnosis_diabetes</b>	Flag to indicate if participant ever had a diagnosis of diabetes (type 1 or type 2).	0, No   1, Yes   2, Not Known
<b>ever_diagnosis_hypert</b>	Flag to indicate if participant ever had a diagnosis of hypertension, whether current or in the past/treated.	0, No   1, Yes   2, Not Known
<b>index_knee</b>	Flag to indicate which knee is index knee	1, Left   2, Right   3, Not Known
<b>surgery_iknee_tx</b>	Flag to indicate whether there was surgery to index knee at baseline (V1). This surgery was typically immediately following the SF sampling, where SF sampling was associated with baseline (V1).	0, No   1, Yes   2, Not known
<b>surgery_iknee_tx_type</b>	Type of index knee surgery associated with baseline (V1). This is a multi-select category where treatments (indicated by numbers 1-31) are listed under a single variable, separated by a comma	1, Medial Unicompartmental Knee Arthroplasty   2, Lateral Unicompartment Knee Arthroplasty   3, Total Knee Arthroplasty   4, High Tibial Osteotomy   5, Knee Joint Distraction   6, Meniscal repair (medial)   7, Meniscal repair (lateral)   8, Medial Partial meniscectomy (< 1/3 removed)   9, Lateral Partial meniscectomy (< 1/3 removed)   10, Medial Subtotal meniscectomy (>1/3 removed)   11, Lateral Subtotal meniscectomy (>1/3 removed)   12, Medial total meniscectomy   13, Lateral total meniscectomy   14, ACL reconstruction   15, PCL reconstruction   16, Posterolateral corner repair   17, Medial collateral repair   18, Lateral collateral repair   19, Medial patellofemoral ligament reconstruction   20, Removal of loose body   21, Removal of osteophytes   22, Osteochondral drilling (microfractures)   23, Osteotomy   24, Cartilage shaving   25, Arthroscopy & washout alone   26, Autologous chondrocyte implantation   27, Synovectomy   28, Infrapatellar fat pad removal   29, Other soft tissue structure removal   30, Fixation of fracture   31, Other
<b>iknee_prev_surgery</b>	Flag to indicate if the participant had previous surgery to index knee prior to baseline, not associated with baseline (V1).	0, No   1, Yes   2, Not Known
<b>iknee_surgery_type</b>	Type of most recent previous index knee surgery prior to baseline (V1). This is a multi-select category where treatments (indicated by numbers 1-32) are listed under a single variable, with two or more surgeries separated by commas. If a surgery type is indicated, 'iknee_prev_surgery' will always be yes (1) but not all cases where 'iknee_prev_surgery' is yes (1) will have associated surgery types ('iknee_surgery_type'), as these data were not always available.	1, Medial Unicompartmental Knee Arthroplasty   2, Lateral Unicompartment Knee Arthroplasty   3, Total Knee Arthroplasty   4, High Tibial Osteotomy   5, Knee Joint Distraction   6, Meniscal repair (medial)   7, Meniscal repair (lateral)   8, Medial Partial meniscectomy (< 1/3 removed)   9, Lateral Partial meniscectomy (< 1/3 removed)   10, Medial Subtotal meniscectomy (>1/3 removed)   11, Lateral Subtotal meniscectomy (>1/3 removed)   12, Medial total meniscectomy   13, Lateral total meniscectomy   14, ACL reconstruction   15, PCL reconstruction   16, Posterolateral corner repair   17, Medial collateral repair   18, Lateral collateral repair   19, Medial patellofemoral ligament reconstruction   20, Removal of loose body   21, Removal of osteophytes   22, Osteochondral drilling (microfractures)   23, Osteotomy   24, Cartilage shaving   25, Arthroscopy & washout alone   26, Autologous chondrocyte implantation   27, Synovectomy   28, Infrapatellar fat pad removal   29, Other soft tissue structure removal   30, Fixation of fracture   31, Other   32, Not known
<b>iknee_injury_history</b>	Is there history of clinically significant index knee injury prior to baseline (V1)?	0, No   1, Yes   2, Not Known
<b>iknee_injury_type</b>	Type of most recent clinically significant index knee injury/category prior to baseline (V1). This is a multi-select category where injuries (indicated by numbers 1-13) are listed under a single variable, separated by a comma. If an injury type is indicated, 'iknee_injury_history' will always be yes (1) but not all cases where 'iknee_injury_history' is yes (1) will have associated injury type ('iknee_injury_type'), as these data were not always available.	1, Lateral meniscal tear   2, Medial meniscal tear   3, ACL tear   4, PCL tear   5, Medial collateral tear   6, Lateral collateral tear   7, Posterolateral corner injury   8, Bone marrow oedema on MRI   9, Chondral defect   10, Intra-articular fracture   11, Haemarthrosis/effusion   12, Patellofemoral dislocation   13, Other

<b>days_injury_sampling</b>	Time between index knee injury and baseline (V1) SF sampling in days (calculated field). This variable is only associated with V1, therefore will not be applicable to SF samples drawn at visits later than V1. This variable is populated only for injury cohorts.	Integer
<b>iknee_injury_primary_tx</b>	Type of primary treatment for index knee injury previous to or at baseline. The primary treatment may or may not be associated with the time of SF (V1) draw. This variable is populated only for injury cohorts.	1, Surgery   2, Physiotherapy   3, Conservative e.g. bracing   4, Other
<b>iknee_injury_surgery_type</b>	Type of surgery associated with primary treatment of index knee injury (if any). This is a multi-select category where treatments (indicated by numbers 1-31) are listed under a single variable, separated by commas.	1, Medial Unicompartmental Knee Arthroplasty   2, Lateral Unicompartment Knee Arthroplasty   3, Total Knee Arthroplasty   4, High Tibial Osteotomy   5, Knee Joint Distraction   6, Meniscal repair (medial)   7, Meniscal repair (lateral)   8, Medial Partial meniscectomy (< 1/3 removed)   9, Lateral Partial meniscectomy (< 1/3 removed)   10, Medial Subtotal meniscectomy (>1/3 removed)   11, Lateral Subtotal meniscectomy (>1/3 removed)   12, Medial total meniscectomy   13, Lateral total meniscectomy   14, ACL reconstruction   15, PCL reconstruction   16, Posterolateral corner repair   17, Medial collateral repair   18, Lateral collateral repair   19, Medial patellofemoral ligament reconstruction   20, Removal of loose body   21, Removal of osteophytes   22, Osteochondral drilling (microfractures)   23, Osteotomy   24, Cartilage shaving   25, Arthroscopy & washout alone   26, Autologous chondrocyte implantation   27, Synovectomy   28, Infrapatellar fat pad removal   29, Other soft tissue structure removal   30, Fixation of fracture   31, Other
<b>contralateral_knee</b>	Flag to indicate which knee is contralateral knee in the case of bilateral knee SF sampling. (This includes 38 cases post QC).	1, Left   2, Right   3, Not Known
<b>cknee_prev_surgery</b>	Flag to indicate if the participant had previous surgery to contralateral knee prior to baseline, not associated with baseline (V1)	0, No   1, Yes   2, Not Known
<b>cknee_surgery_type</b>	Type of most recent previous contralateral knee surgery. This is a multi-select category where treatments (indicated by numbers 1-31) are listed under a single variable, separated by a comma. If a surgery type is indicated, 'cknee_prev_surgery' will always be yes (1) but not all cases where 'cknee_prev_surgery' is yes (1) will have associated surgery types ('cknee_surgery_type') as these data were not always available.	1, Medial Unicompartmental Knee Arthroplasty   2, Lateral Unicompartment Knee Arthroplasty   3, Total Knee Arthroplasty   4, High Tibial Osteotomy   5, Knee Joint Distraction   6, Meniscal repair (medial)   7, Meniscal repair (lateral)   8, Medial Partial meniscectomy (< 1/3 removed)   9, Lateral Partial meniscectomy (< 1/3 removed)   10, Medial Subtotal meniscectomy (>1/3 removed)   11, Lateral Subtotal meniscectomy (>1/3 removed)   12, Medial total meniscectomy   13, Lateral total meniscectomy   14, ACL reconstruction   15, PCL reconstruction   16, Posterolateral corner repair   17, Medial collateral repair   18, Lateral collateral repair   19, Medial patellofemoral ligament reconstruction   20, Removal of loose body   21, Removal of osteophytes   22, Osteochondral drilling (microfractures)   23, Osteotomy   24, Cartilage shaving   25, Arthroscopy & washout alone   26, Autologous chondrocyte implantation   27, Synovectomy   28, Infrapatellar fat pad removal   29, Other soft tissue structure removal   30, Fixation of fracture   31, Other
<b>cknee_injury_history</b>	Flag to indicate if the participant had a clinically significant contralateral knee injury prior to baseline (V1).	0, No   1, Yes   2, Not Known
<b>cknee_injury_type</b>	Type of most recent clinically significant contralateral knee injury/category prior to baseline (V1). This is a multi-select category where injuries (indicated by numbers 1-13) are listed under a single variable, separated by a comma. If an injury type is indicated, 'cknee_injury_history' will always be yes (1) but not all cases where 'cknee_injury_history' is yes (1) will have associated injury types ('cknee_injury_type') as these data were not always available.	1, Lateral meniscal tear   2, Medial meniscal tear   3, ACL tear   4, PCL tear   5, Medial collateral tear   6, Lateral collateral tear   7, Posterolateral corner injury   8, Bone marrow oedema on MRI   9, Chondral defect   10, Intra-articular fracture   11, Haemarthrosis/effusion   12, Patellofemoral dislocation   13, Other
<b>koos_pain</b>	KOOS pain subscore (calculated from full KOOS questionnaire results, or from combined subscore provided by cohort collectors, in that order of preference). Scale of 0-100, where 0 is the worst possible pain imaginable.	Number
<b>koos_adl</b>	KOOS ADL score calculated from individual KOOS items. Calculated from full KOOS questionnaire results (koos_adl_score), or from combined subscore provided by cohort (recd_koos_adl_score), in that order of preference. Scale of 0-100, where 0 is the worst possible functional state imaginable.	Number

<b>koos_symptom</b>	KOOS symptom score calculated from individual KOOS items. Calculated from full KOOS questionnaire results (koos_symptom_score), or from combined subscore provided by cohort (recd_koos_symptom_score), in that order of preference. Scale of 0-100, where 0 is the worst possible symptom state imaginable.	Number
<b>koos_sport</b>	KOOS sport score calculated from individual KOOS items. Calculated from full KOOS questionnaire results (koos_sport_score), or from combined subscore provided by cohort (recd_koos_sport_score), in that order of preference. Scale of 0-100, where 0 is the worst possible sport state imaginable.	Number
<b>koos_qol</b>	KOOS QOL score calculated from individual KOOS items. Calculated from full KOOS questionnaire results (koos_qol_score), or from combined subscore provided by cohort (recd_koos_qol_score), in that order of preference. Scale of 0-100, where 0 is the worst possible quality of life imaginable.	Number
<b>koos_4</b>	KOOS4 score calculated from individual KOOS items. Calculated from full KOOS questionnaire results ( $([koos\_pain\_score] + [koos\_symptom\_score] + [koos\_qol\_score] + [koos\_sport\_score])/4$ ), or from subscores provided by cohort (e.g. recd_koos_qol_score), in that order of preference. Scale of 0-100, where 0 is the worst knee health possible.	Number
<b>koos_swelling</b>	S1. Do you have swelling in your knee?	0, Never   1, Rarely   2, Sometimes   3, Often   4, Always
<b>koos_noise</b>	S2. Do you feel grinding, hear clicking or any other type of noise when your knee moves?	0, Never   1, Rarely   2, Sometimes   3, Often   4, Always
<b>koos_catch</b>	S3. Does your knee catch or hang up when moving?	0, Never   1, Rarely   2, Sometimes   3, Often   4, Always
<b>koos_straighten</b>	S4. Can you straighten your knee fully?	0, Always   1, Often   2, Sometimes   3, Rarely   4, Never
<b>koos_bend</b>	S5. Can you bend your knee fully?	0, Always   1, Often   2, Sometimes   3, Rarely   4, Never
<b>koos_morning_stiff</b>	S6. How severe is your knee joint stiffness after first wakening in the morning?	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_sitting_stiff</b>	S7. How severe is your knee stiffness after sitting, lying or resting later in the day?	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_howoften</b>	P1. How often do you experience knee pain?	0, Never   1, Monthly   2, Weekly   3, Daily   4, Always
<b>koos_pain_twist</b>	P2. Twisting / Pivoting on your knee	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_straighten</b>	P3. Straightening your knee fully	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_bend</b>	P4. Bending your knee fully	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_walk</b>	P5. Walking on flat surfaces	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_stair</b>	P6. Going up or down stairs	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_night</b>	P7. At night while in bed	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_sit</b>	P8. Sitting or lying	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_pain_stand</b>	P9. Standing upright	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_stair_down</b>	A1. Descending stairs	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_stair_up</b>	A2. Ascending stairs	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_rise</b>	A3. Rising from sitting	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_stand</b>	A4. Standing	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_bend</b>	A5. Bending to floor / pick up an object	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_walk</b>	A6. Walking on flat surface	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_car</b>	A7. Getting in/out of a car	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme

<b>koos_diff_shop</b>	A8. Going shopping	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_socks_on</b>	A9. Putting on socks / stockings	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_rise_bed</b>	A10. Rising from bed	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_socks_off</b>	A11. Taking off socks/stockings	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_lye</b>	A12. Lying in bed (turning over, maintaining knee position)	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_bath</b>	A13. Getting in/out of bath	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sit</b>	A14. Sitting	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_toilet</b>	A15. Getting on/off toilet	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_home_heavy</b>	A16. Heavy domestic duties (moving boxes, scrubbing floors, etc)	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_home_light</b>	A17. Performing light domestic duties (cooking, dusting etc)	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sport_squat</b>	SP1. Squatting	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sport_run</b>	SP2. Running	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sport_jump</b>	SP3. Jumping	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sport_twist</b>	SP4. Twisting / pivoting on injured knee	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_diff_sport_kneel</b>	SP5. Kneeling	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme
<b>koos_qol_awareness</b>	Q1. How often are you aware of your knee problem?	0, Never   1, Monthly   2, Weekly   3, Daily   4, Constantly
<b>koos_qol_lifestyle</b>	Q2. Have you modified your lifestyle to avoid potentially damaging activities to your knee?	0, Not at all   1, Mildly   2, Moderately   3, Severely   4, Extremely
<b>koos_qol_confidence</b>	Q3. How much are you troubled with lack of confidence in your knee?	0, Not at all   1, Mildly   2, Moderately   3, Severely   4, Extremely
<b>koos_qol_difficulty</b>	Q4. In general, how much difficulty do you have with your knee?	0, None   1, Mild   2, Moderate   3, Severe   4, Extreme