S1 Table. OAI Variable descriptions and key to NDA dataset

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Description of the variable	OAI variable used	NDA variable used
Female sex	P02SEX	gender
Hispanic or Latino, self-reported	P02HISP	ethnicity
White or Caucasian race	P02RACE P02RACE	race
Black or African American race Asian race	POZRACE POZRACE	race race
SSI-12 Physical Health Summary SF-12 Physical Health Summary	VOOHSPSS	physical
SF-12 Mental Health Summary	VOOHSMSS	mental
Marital status: Widowed	VOOMARITST	curr_marital_st
Marital status: Divorced	VOOMARITST	curr_marital_st
Marital status: Separated	V00MARITST	curr_marital_st
Marital status: Never married	VOOMARITST	curr_marital_st
Doing unpaid work for family business	VOOCEMPLOY	cemploy
Not working in part due to health	V00CEMPLOY V00CEMPLOY	cemploy
Not working other reasons Currently employed	VOOCUREMP	cemploy curemp
Currenty employee Yearly income >50K (calc)	VOOCOREMP VOOINCOME2	income2
Have medical insurance	VOOMEDINS	medins
Age (calc, used for study eligibility)	V00AGE	ageyears
Highest grade or year of school completed (calc)	V00EDCV	edcv
How many alcoholic drinks in typical week, past 12 months	V00DRNKAMT	drnkamt
ComorbidityScore	VOOCOMORB	comorb
Center for Epidemiologic Studies Depression Scale (CES-D) Score (calc)	V00CESD	cesd_score
Physical Activity Scale for the Elderly	VOOPASE	pase
Blood pressure: systolic (mm Hg)	VOOBPSYS	bpsys
Blood pressure: diastolic (mm Hg)	VOOBPDIAS	bpdias
Body mass index (calc)	P01BMI V00FALI	bmi fall
Fallen and landed on floor or ground, past 12 months	VOOFALL VOOSMOKE	fall smoke
Smoked at least 100 cigarettes (5 packs) in entire life In the past, did drink more beer, wine or liquor than now	VOOSMORE VOODRKMORE	drkmore
Total number of medications recorded	VOORX30NUM, VOORX30	rx30num, rx30
Bring in or identify ALL prescription medications taken, past 30 days	V00RX30	rx30
Bring in or identify SOME prescription medications taken, past 30 days	V00RX30	rx30
Did not take any medications, past 30 days	V00RX30	rx30
Used analgesic in last 30 days	VOORXANALG	rxanalg
Used narcotic analgesic in last 30 days	VOORXNARC	rxnarc
Injected corticosteroid in last 30 days	VOORXISTRD	rxistrd
Used COX-II inhibitor in last 30 days	V00RXCOX2	rxcox2
Used NSAID in last 30 days	VOORXNSAID	rxnsaid
Ever had hip replacement surgery where all or part of joint was replaced Doctor ever said participant broke or fractured bone after age 45	P01HRS V00BONEFX	hrs bonefx
Doctor ever said participant fractured spine or vertebrae Doctor ever said participant fractured spine or vertebrae	VOOSPNEX	spnfx
Repeated that stand; pace in stands/sec (calc)	VOOCSPACE	cspase
Single chair stand	VOOCSTSGL	cstsgl
Able to complete 5 repeated chair stands	V00CS5	cs5
20-meter walk: pace (m/sec) (calc)	V0020MPACE	w20mpace
400 meter walk	V00400MTIM	w400mtim
Family history of TKR	P02FAMHXKR	famhkkr
Presence of hip pain (right), aching or stiffness: any, past 12 months (includes pain in groin and in front and sides of upper thigh)	P01HPNR12_1: Yes	hpnr12
Presence hip pain (left), aching or stiffness: any, past 12 months (includes pain in groin and in front and sides of upper thigh)	P01HPNL12_1: Yes	hpnl12
Presence of back pain (any), past 30 days Presence of right hip pain, aching or stiffness: more than half the days of a month, past 12 months (calc)	P01BP30 P01HPR12CV	bp30 hpr12cv
Presence of left hip pain, aching or stiffness: more than half the days of a month, past 12 months (calc)	POTHPRIZEV POTHPL12CV	hpl12cv
resence orienting pain, acting or stimes, more trian rian tie days to a month, past 12 months (carc) Ever injured badly enough to limit ability to walk for a least two days	POINTLIZEV POINJL, POINJR	injl, injr
Ever have knee surgery or arthroscopy	P01KSURGL, P01KSURGR	ksurgl. ksurgr
Ever have knee arthroscopy (where they put a scope in knee)		
	PO1ARTL, PO1ARTR, PO1KSURGL, PO1KSURGR	
At least one arthroscopy to repair knee injury	P01ARTL, P01ARTR, P01KSURGL, P01KSURGR P01ARTLINI, P01ARTRINI, P01KSURGL, P01KSURGR	artl, artr, ksurgl, ksurgr artlinj, artrinj, ksurgl, ksurgr
		arti, artr, ksurgi, ksurgr
At least one arthroscopy to repair knee injury Ever have meniscectomy (where they repaired or cut away torn meniscus or cartilage) At least one meniscectomy to repair an injury	P01ARTLINJ, P01ARTRINJ, P01KSURGL, P01KSURGR P01MENL, P01MENR, P01KSURGL, P01KSURGR P01MENLINJ, P01MENRINJ, P01KSURGL, P01KSURGR	artl, artr, ksurgl, ksurgr artlinj, artrinj, ksurgl, ksurgr menl, menr, ksurgl, ksurgr menlinj, menrinj, ksurgl, ksurgr
At least one arthroscopy to repair knee injury Ever have meniscectomy (where they repaired or cut away torn meniscus or cartilage) At least one meniscectomy to repair an injury Ever have ligament repair surgery	P01ARTLINJ, P01ARTRINJ, P01KSURGL, P01KSURGR P01MENL, P01MENR, P01KSURGL, P01KSURGR P01MENLINJ, P01MENRINJ, P01KSURGL, P01KSURGR P01RL, P01LRR, P01KSURGL, P01KSURGR	artl, artr, ksurgl, ksurgr artlinj, artrinj, ksurgl, ksurgr menl, menr, ksurgl, ksurgr menlinj, menrinj, ksurgl, ksurgr Irl, Irr, ksurgl, ksurgr
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At least one arthroscopy to repair knee injury Ever have meniscectomy (where they repaired or cut away torn meniscus or cartilage) At least one meniscectomy to repair an injury Ever have ligament repair surgery WOMAC Pain Score (calc) KOOS Pain Score	PO1ARTLINJ, PO1ARTRINJ, PO1KSURGL, PO1KSURGR PO1MENL, PO1MENR, PO1KSURGL, PO1KSURGR PO1MENLINJ, PO1MENRINJ, PO1KSURGR PO1MENLINJ, PO1MENRINJ, PO1KSURGR VO0WOMKPL, VO0WOMKPR VO0KOOSKPL, VO0KOOSKPR	artl, artr, ksurgl, ksurgr artlinj, artrinj, ksurgl, ksurgr menl, menr, ksurgl, ksurgr menlinj, menrinj, ksurgr irl, Irr, ksurgl, ksurgr womkpl, womkpr kooskpl, kooskpr
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