OA status: patient			Sample			Duration of
or community	Study Name	Study design	size	Source of population	Inclusion criteria/ eligibility criteria	follow-up
Community	CDAH Knee study	Cohort study	449	Childhood to adulthood	The CDAH participants(age 36 years) residing in metropolitan Melbourne and Sydney were invited	25 years
Community	KORIM	Cohort study	297	Community/cohort study	No knee pain, injury or diagnosed knee disease	2 years
Community	VETO	RCT	130	Community	ACR Criteria	2 years
Community	Heathy Women study	Cohort study	176	Community/cohort study	No knee pain, injury or diagnosed knee disease	2 years
Community	Obesity study	Cohort study	250	Obese and non -obese	No knee pain, injury or diagnosed knee disease	2 years
Community	Hip MRI study	Cohort study	214	Community/cohort study	No significant hip pain, injury or diagnosed hip disease	5 years
Community	spine MRI study	Cohort study	72	Community/cohort study	No history of arthropathy diagnosed by a medical practitioner	5 years
Community	TASOAC	longitudinal	1100	Electoral roll	Community dwelling	10 years
Community	Offspring	longitudinal	372	TKR children and controls	TKR for OA and matched control	10 years
OA	SPARK	Case Crossover	350	Community	ACR Criteria	3 months
OA	FNIH		600	Nested case control in OAI Cohort	ACR Criteria	4 years
OA	Knee OA and Lateral Wedges	RCT	200	Community	ACR criteria - medial OA	1 year
OA	Knee OA and Hip Strengthening	RCT	89	Community	ACR criteria - medial OA	3 months
OA	Knee Malalignment and Quadriceps Strengthening	RCT	107	Community	ACR criteria - medial OA	3 months
OA	VIDEO study	RCT	410	Community	ACR Criteria	2 years

			Joints	Imaging
Study Name	Exposures	Outcomes	evaluated	studies
CDAH Knee study	body fat, BMI, physical activity	Cartilage volume, bone area, BMLs	Knees	MRI
KORIM	age, gender, BMI, physical activity, body composition	cartilage volume and defects, tibal bone area, BMLs	Knees	MRI
VETO	age, gender, BMI, physical activity, dietary	cartilage volume, tibial bone area, BMLs	Knees	MRI/Xray
Heathy Women study	age, BMI, physical activity	cartilage volume and defects, tibal bone area, BMLs	Knees	MRI
Obesity study	age, gender, BMI, physical activity, DXA, WOMAC	cartilage volume and defects, tibal bone area, BMLs	Knees	MRI/Xray
Hip MRI study	age, gender, BMI, physical activity, WOMAC	cartilage volume and defects, bone area, bone shape, BMLs	hips	MRI
spine MRI study	age, gender, BMI, physical activity, DXA, Low back pain	disc degeneration, disc height, modic change, paraspinal muscle CSA and fat infiltration	lumber spine	MRI
TASOAC	>400	cartilage, bone, joint replacement	knees, hips, hands	MRI, Xray, US, CT, DXA
Offspring	extensive	cartilage, bone, pain	Knees	MRI, Xray
SPARK	Shoewear, medication, psychological factors, weather, physical activity, injury/ buckling	KOOS, ICOAP	Knees	X-rays
FNIH	Age, BMI, gender, radiographic status	Cartilage thickness, bone shape, bone area, semi- quantitative MRI, biochemical markers	Knees	X-rays, MRI
Knee OA and Lateral Wedges	Laterally wedged insoles, flat insoles	cartilage volume, pain, function	Knees	x-rays, MRI
Knee OA and Hip Strengthening	Hip strengthening exercises	Knee adduction moment, pain, function	Knees	x-rays
Knee Malalignment and Quadriceps Strengthening	Quadriceps strengthening exercises	Knee adduction moment, pain, function	Knees	x-rays
VIDEO study	vitamin D treatment, age, sex, BMI	Cartilage volume, defects, BMLs	Knees	MRI

Study Name	Biospecimens	Investigators	Point of contact (email address)	Publications/ web address	Funding source
CDAH Knee study		Changhai Ding, Graeme	<u>changhai.ding@utas.edu.au</u>		NHMRC Project Grant
		Jones, Flavia Cicuttini, Lyn			
		March			
KORIM	urine, but not	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or		NHMRC Project Grant
	measured		anita.wluka@monash.edu		
VETO	blood	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or	JMIR Res Protoc. 2015 Jul 8;4(3):e80.	NHMRC Project Grant
			anita.wluka@monash.edu		
Heathy Women study	urine	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or	Best Pract Res Clin Rheumatol. 2014	FNIH
			anita.wluka@monash.edu	Feb;28(1):61-71.	
Obesity study	urine, but not	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or		
	measured		anita.wluka@monash.edu		
Hip MRI study	Nil	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or		NHMRC Project Grant
			anita.wluka@monash.edu		
spine MRI study	urine, but not	Flavia Cicuttini/Anita Wluka	flavia.cicuttini@monash.edu or		Arthritis Australia
	measured		anita.wluka@monash.edu		
TASOAC	serum,urine	Graeme Jones, Flavia	g.jones@utas.edu.au		Monash strategic grant
		Cicuttini			
Offspring	serum, urine,	Graeme Jones, Flavia	g.jones@utas.edu.au		NHMRC
	DNA	Cicuttini, changhai Ding			
SPARK	Nil	David Hunter	David.Hunter@sydney.edu.au		NHMRC
FNIH	Through OAI	David Hunter	David.Hunter@sydney.edu.au	BMJ 2011;342:d2912	NHMRC project grant
Knee OA and Lateral Wedges	-	Kim Bennell/Rana Hinman	<u>k.bennell@unimelb.edu.au</u>	Osteoarthritis Cartilage, 2010, 18(5):621-	NHMRC project grant
				8	
Knee OA and Hip Strengthening	-	Kim Bennell/Rana Hinman	k.bennell@unimelb.edu.au	Arthritis Care & Research, 2008, 59(7):	Physiotherapy Research
				943–951	Foundation, Australia
Knee Malalignment and Quadriceps Strengthening	-	Kim Bennell/Rana Hinman	<u>k.bennell@unimelb.edu.au</u>	submitted	NHMRC Project Grant
VIDEO study	Blood	Changhai Ding	changhai.ding@utas.edu.au	Ann Rheum Dis. 2015 Apr;74(4):711-7	NHMRC Project Grant