MrOS and MsOS data inventory						
	Dece Line	1st follow up	2nd follow up	3rd follow up	4th follow up	
	Base Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)	
	2000 Male	1745 Male	1566 Male	989 Male	509 male (+7 male - spouse of MsOs) (total 516 male)	
No. of subjects	15 Aug, 2001- 28 Feb, 2003	15 Aug, 2003 - 31 Mar, 2005	8 Aug, 2005 – 4 Apr 2007	28 Jan, 2008 – 5 Jan, 2010	552 female (+27 female - spouse of MrOs) (total 579 female)	
	2000 Female	1682 Female	1587 Female	889 Female	16 Nov, 2015 – 29 Sep, 2017	
	21 Jan, 2002 - 5 Dec, 2003	6 Jan, 2004 - 23 Dec, 2005	23 Jan, 2006– 30 Nov, 2007	7 Apr, 2008 – 5 Jan, 2010		
		<u>C</u>	omplete Questionnaires			
	General Information					
	Medical history	Medical history	Medical history	Medical history	Medical history (chronic disease simplified)	
					Parkinson Screening Questionnaire	
	Medication Use	Medication Use	Medication Use		Medication Use	
Medical information	Fracture history	(Fracture History, Falling & Weight Change only)	(Fracture History, Falling & Weight Change only)	Fracture history	(fall and fracture history in past 12 months, weight change in past 6 month and 1 month)	
	Fracture History (Family history)	Family History Revised				
	Prostate/women health &	Prostate/women health &	Prostate/women health &			
	condition	condition	condition			
	Tobacco & Alcohol	Tobacco & Alcohol			Tobacco & Alcohol (Simplified)	
					use of medical and social service in past 12 months	
Male health		Male – Sexual intercourse Ques (n=1190) Erectile dysfunction & satisfaction (IIEF-5, n=1190, MMSA, n=295)	Male – Sexual intercourse Ques Erectile dysfunction & satisfaction (IIEF-5, MMSA, ADAM)			
		Aggression				
	Lifestyle (SF12)	Lifestyle (SF12+EQ5D)	Lifestyle (SF12 + EQ5D)	Lifestyle (SF12)	Lifestyle (SF12)	
	IADL			IADL	IADL	
L					Satisfaction with Life Scale (SWLS)	
	Depression (GDS)	Depression (GDS)	Depression (GDS)	Depression (GDS)	Depression (GDS)	
Functioning & Dependency					de Jong Gierveld Loneliness Sacle (Validated Chinese Version)	
					Affective valuation inventory	

MrOS and MsOS data inventory						
	Door Line	1st follow up	2nd follow up	3rd follow up	4th follow up	
	Base Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)	
		Life Events	Life Events		Life Events	
	MMSE		MMSE	MMSE	MMSE	
Cognitive	CSI-D (10/66 Dementia			CSI-D (10/66 Dementia		
Assessment	Research Gp)			Research Gp)		
Assessment					MoCA	
					Verbal Fluency	
Physical Activity	Physical activities (PASE+CIP)		Physical activities (PASE)	Physical activities (PASE)	Physical activities (PASE)	
Back pain and joint	Back and Joint Health		Back pain		Back (simplified) and Knee Joint Health	
health					Swiss Spine Stenosis	
			Hip Joint Health			
	Social and Economic Status			Social and Economic Status		
Social and	Social ladder			Social ladder	Social ladder	
economic status				income and expenditure	Social Financial Supports and Perception of Financial Status	
					Neighborhood Social Cohesion Scale	
Najahharhaad 9					Brief Sense of Community Scale	
Neighborhood &					Sense of Autonomy Outdoors	
Residency					Residency history	
					Resident enviornment and indoor	
					pollutant	
Sleep habit		Sleep Habit (mini)	Sleep Habit (mini)		Sleep questionnaire (mini) (revised)	
		Sleep Habit (Prof Wing)				
Frailty and					SARC-F	
saropenia					Frailty Scale	
Dietary Record	Food Frequency Questionnaire	Mini Nutrition Assessment				
			Anthropometry		<u> </u>	
	Blood Pressure and Pulse	Blood Pressure and Pulse	Blood Pressure and Pulse	Blood Pressure	Blood Pressure and Pulse	
	Ankle-To-Arm Blood Pressure	Ankle-To-Arm Blood Pressure	Ankle-To-Arm Blood Pressure			
Vital Sign and Body Meaasurement	Weight and Height	Weight and Height	Weight and Height	Weight and Height	Weight and Height	
		Sitting Height	Sitting Height			
			Arm span			
			Hand Exam			
			Hip Exam			
	DXA (hip, spine, whole body)	DXA (hip, spine, whole body)	DXA (hip, spine, whole body)		DXA (hip, spine, whole body)	
BMD	Ultrasound	Ultrasound	Ultrasound			

		<u>MrOS a</u>	nd MsOS data inventory		
	D I V	1st follow up	2nd follow up	3rd follow up	4th follow up
	Base Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)
	pQCT (466 male, 443 female)	pQCT (1728 male, 37 female)	pQCT (358 male)	,	, , ,
	Body composition (DXA)	Body composition (DXA)	Body composition (DXA)		Body composition (DXA)
DXA	Abdominal fat (DXA)				
	Android gynoid ratio (DXA)	Android gynoid ratio (DXA)	Android gynoid ratio (DXA)		
Х-гау	X-ray Spine		X-ray Spine and Hip		biplanar X-ray imaging (EOS) [46 male + 31 female (include 1 non-Os female*)] (Prof. Jack Cheng) *spouse of a MrOs
QCT		QCT (329 Male spine, 332 Male hip)			
	MRI (total 395) (Prof Griffith)				
	Perfusion : Male – 52 hip, 83 spi	Perfusion : Male – 52 hip, 83 spine; Female – 117 hip, 103 spine			
	Spectroscopy (marrow fat): Male	Spectroscopy (marrow fat): Male – 59 hip, 89 spine; Female 120 hip, 103 spine			
MRI	Disc and vertebral height: 177 m	Disc and vertebral height: 177 male, 218 female			MRI (Spine)
VIIXI	Endplate study: 162 Male, 194 F	Endplate study: 162 Male, 194 Female			
	True volume: 56 Male, 62 Femal	е			
	Mainly from visit 2, few from visit	: 4			
	62 male have both MRI and QC1	Γ data (male have 17 MRI hip fat a			
	Grip Strength	Grip Strength	Grip Strength	Grip Strength	Grip Strength
Physical Functioning	and repeated Chair Stand, 6 meter Usual Pace, 20cm	Neuromuscular function (Single and repeated Chair Stand, 6 meter Usual Pace, 20cm	and repeated Chair Stand, 6 meter Usual Pace, 20cm	Neuromuscular function (Single and repeated Chair Stand, 6 meter Usual Pace, 20cm	Neuromuscular function (Single and repeated Chair Stand, 6 meter Usual Pace, 20cm Narrow Walk)
	Narrow Walk)	Narrow Walk)	Narrow Walk)	Narrow Walk)	Dual task in 6m Usual Pace
					Standing Balance (from SPPB)
Vision	Vision (Snellen Chart, CSV - 1000 and Frisby Stereotest)				
					Modified ATS Questionnaire

MrOS and MsOS data inventory							
	Book I See	1st follow up	2nd follow up	3rd follow up	4th follow up		
	Base Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)		
Lung Function			spirometry pre and post- bronchodilator (110 male + 40 female) (Dr Ko)		Lung function measured by spirometry pre and post-bronchodilator [197 male (include 1 non-Os subject*) + 114 female (include 8 non-Os subject*)] [also participated in HM Summer visit 25 male + 10 female (include 1 non-Os subject*); participated in HM Winter visit 23 male + 7 female (include 1 non-Os subject*)] *spouse of Os subject		
Vmax				EPIC 4Q + VSAQ ECG + VO2			
Activity Monitoring					7 days physical activity monitoring (estimation of daily energy expenditure and sleep) [363 male (include 4 non-Os subject*) + 287 female (include 17 non-Os subject*)] *spouse of Os subject		
	Biological & Enviornmental Samples						
Nails	Finger & Toe Nails Collection For Selenium						
Blood Collection	Fasting Blood	Non-fasting Blood	Male ~300 fasting blood (Prof Kwok)		Fasting Blood		
	ACE genotype (Prof. Kwok) (M=1841, F=1957)				Fasting Lipid profile		
		ım ACE activity (n=4000) (Prof. K	·		Fasting glucose		
		SNP rs3736228 (LRP5) (M=1680			Serum creatinine		
	Vit D receptor 3 Haplotypes (SNP rs9729, SNP rs731236, HAP1, HAP2, HAP3) (M=1680)				Telomere length		

	MrOS and MsOS data inventory						
	Base Line	1st follow up	2nd follow up	3rd follow up	4th follow up		
	Dase Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)		
DNA/ Gene/ Blood					According to conversation with Amy Wang on 12032018, 1. Plasma sample around 1ml (seperated into two tubes) per subject, 2. genetic samples around 10 tubes per subject 3. each subject has one whole blood EDTA sample stored up		
Home Environmental Monitoring					Summer visit: 70 male + 52 female (include 1 non-Os subject*) Winter visit: 64 male + 46 female (include 1 non-Os subject*) [also participated in lung function test: Summer visit 25 male + 10 female (include 1 non-Os subject*); Winter visit 23 male + 7 female (include 1 non-Os subject*)] *spouse of MrOs Indoor air pollutants (PM2.5, O3, SO2, NO2, formaldehyde and house dust) On-site Mircoclimatic measurements (air temperature, relative humidity, wind speed, globe temperature) and thermal comfort survey		
			low-up work (After Visit)				
Tel-FU	Ev	ery 4 month (during baseline – 4YI	FU)		Every 3 months for 12 months		
	0000	Falls and fracture history			Falls and fracture history		
Fracture record from	2000 male (up to Oct 2013), mean follow up time=11.3yr 2000 female (up to May 2012), mean follow up time =9.2yr						
CMS	ZUUU Temale	(up to iviay ∠∪1∠), mean follow up	э шпе =9.∠уг				
Death record (Death							
registry / informed	All subjects (up to 27-Dec-2017) 878 male, 542 female died						
death)							
Dental		~420 male (Dr Shum)					

MrOS and MsOS data inventory						
	Base Line	1st follow up	2nd follow up	3rd follow up	4th follow up	
	Base Line	(3rd year/ 2YFU)	(5th year/ 4YFU)	(8 th year/ 7YFU)	(15 th year/ 14YFU)	
BMR		~20 male, fasting (Forrest Yau)				
Memory Clinic		~100 male + female (Prof. Kwok)				
		Tel-Questi	ionnaire (for Refused follow-up)			
Telephone Refuse Questionniare					Up to 27Dec2017, 177 male + 210 female (completed MoCA-5: 126male + 162 female)	
					5-min MoCA	
					Residency history	
					Self-care ability	
					SARC-F and Frailty	
					use of medical and social service in past	
					12 months	