# MYIA

Dr. Andre Dias

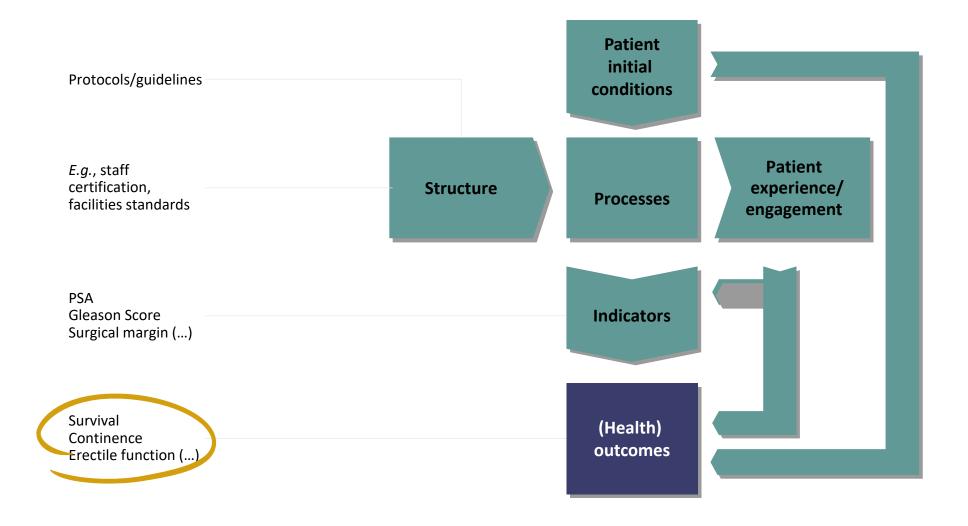
A deep dive into outcomes

# Agenda

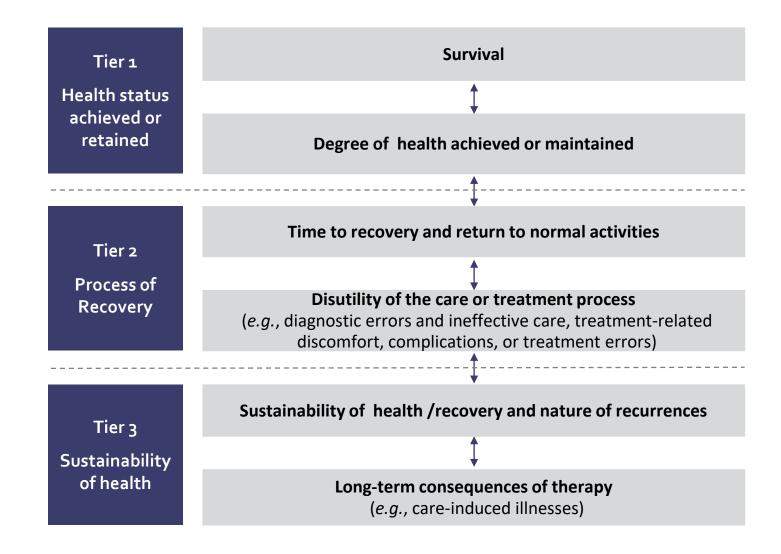
What is an outcome set

How will outcomes collection impact you

# There are lots of things to measure in healthcare



## The outcomes hierarchy

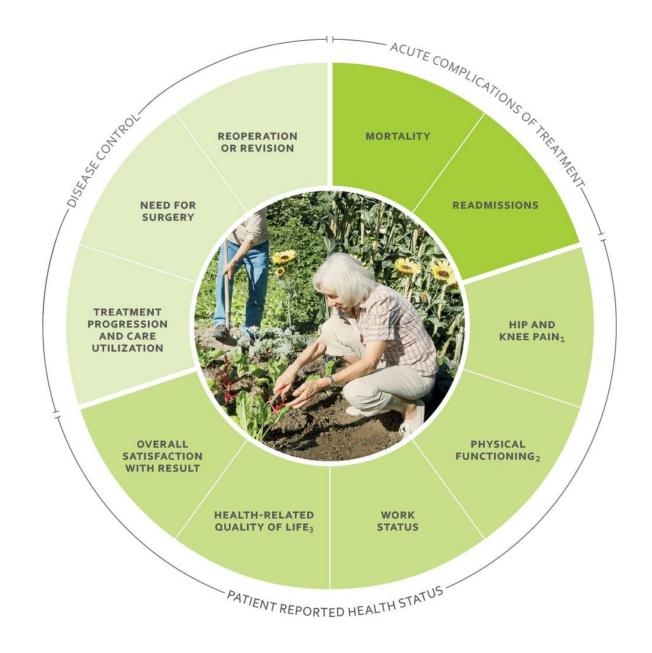


"Outcomes are the results people care about most when seeking treatment, including functional improvement and the ability to live normal, productive lives." – ICHOM

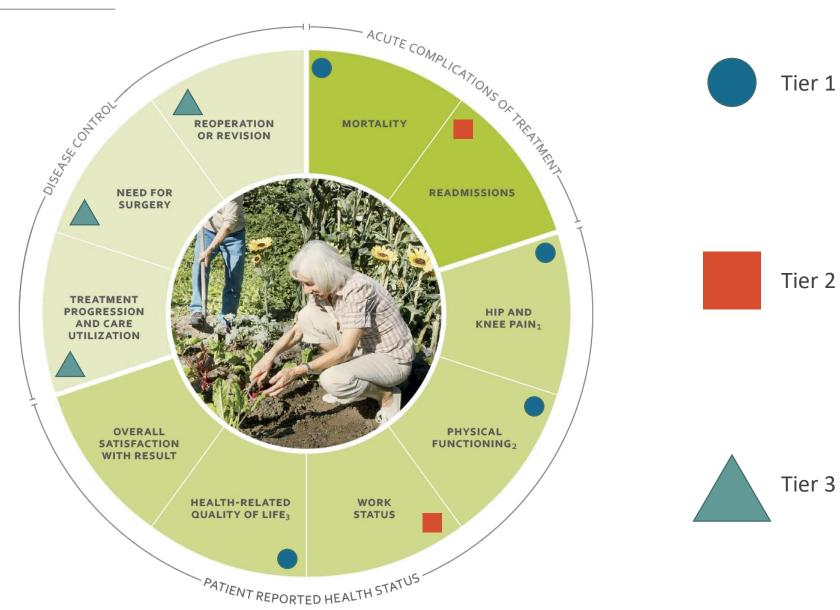
# Deep dive on a outcomes standard set







### What kind of outcomes are in the set



# But how do you measure these outcomes objectively?

#### Outcomes

Measure	Supporting Information	Timing	Data Source
alth Status			
Hip or knee functional status	Tracked via either the HOOS- PS or KOOS-PS		Patient-reported
Pain in the hips, knees, or lower back	Tracked via numeric or visual analog rating scales		
Quality of life	Tracked via either the EQ-5D- 3L, VR-12, or SF-12	Baseline; Annually	
Work status	Indication of patient's ability to work		
Satisfaction with results	Patient's overall satisfaction with the results of their care		
of Treatment			
Death	All cause 30-day mortality	Doct cureen	Administrative data
Admissions	All cause 30-day readmissions	Post-surgery	
Reoperation	All reoperations	Continuous	Clinical or administrative data
	Alth Status  Hip or knee functional status  Pain in the hips, knees, or lower back  Quality of life  Work status  Satisfaction with results  of Treatment  Death  Admissions	Hip or knee functional status PS or KOOS-PS Pain in the hips, knees, or lower back Quality of life Work status  Satisfaction with results  Of Treatment Death All cause 30-day readmissions  Tracked via either the EQ-5D-3L, VR-12, or SF-12 Indication of patient's ability to work All cause 30-day readmissions	Hip or knee functional status PS or KOOS-PS Pain in the hips, Tracked via numeric or visual knees, or lower back analog rating scales  Quality of life Tracked via either the EQ-5D-3L, VR-12, or SF-12 Indication of patient's ability to work  Satisfaction with Patient's overall satisfaction with the results of their care  of Treatment  Death All cause 30-day mortality Admissions All cause 30-day readmissions  All cause 30-day readmissions

HOOS-PS: Hip Disability and Osteoarthritis Outcome Score – Physical Function; KOOS-PS: Knee Injury and Osteoarthritis Outcome Score - Physical Function; EQ-5D-3L: EuroQol 5 Dimension 3 Levels; VR-12: Veterans RAND 12; SF-12: Short Form 12 Health Survey

#### The HOOS - PS

The following questions concern your level of function in performing usual daily activities and higher level activities. For each of the following activities, please indicate the degree of difficulty you have experienced in the **last week** due to your hip problem.

	None	Mild	Moderate	Severe	Extreme
1. Descending stairs	0	0	0	0	0
2. Getting in/out of bath or shower	0	0	0	0	0
3. Sitting	0	0	0	0	0
4. Running	0	0	0	0	0
5. Twisting/pivoting on your loaded leg	0	0	0	0	0

### Pain

On a scale of 0 to 10, with 0 being no pain at all and 10 being the worst pain imaginable, please indicate your average pain in each of the following locations on your body over the last 7 days.

	No pain										Worst pain imaginable
	0	1	2	3	4	5	6	7	8	9	10
right hip [PAINRH]	0	0	0	0	0	0	0	0	0	0	0
left hip [PAINLH]	0	0	0	0	0	0	0	0	0	0	0
right knee [PAINRK]	0	0	0	0	0	0	0	0	0	0	0
left knee [PAINLK]	0	0	0	0	0	0	0	0	0	0	0
lower back [PAINLB]	0	0	0	0	0	0	0	0	0	0	0

10

# Quality of life – EQ5D

Please indicate which statements best describe your own health state today.	Usual Activities (e.g. work, study, housework, family or leisure activities) [ACTIVITY]			
Mobility	O I have no problems with performing my usual activities			
[MOBILITY]	O I have some problems with performing my usual activities			
O I have no problems in walking about	O I am unable to perform my usual activities			
O I have some problems in walking about				
O I am confined to bed	Pain/Discomfort [PAIN]			
Self-Care	O I have no pain or discomfort			
[SELFCARE]	O I have moderate pain or discomfort			
O I have no problems with self-care	O I have extreme pain or discomfort			
I have some problems washing or dressing myself				
O I am unable to wash or dress myself				
	Anxiety/Depression [ANXIETY]			
	O I am not anxious or depressed			
	O I am moderately anxious or depressed			
	O I am extremely anxious or depressed			

# Quality of life - EQ5D

To help people say how good or bad a health state is, we have drawn a scale (rather like a thermometer) on which the best state you can imagine is marked 100 and the worst state you can imagine is marked 0.

We would like you to indicate on this scale how good or bad your own health is today, in your opinion. Please do this by drawing a line from the box below to whichever point on the scale indicates how good or bad your health state is today.

[EQ\_VAS]



# Satisfaction and employment

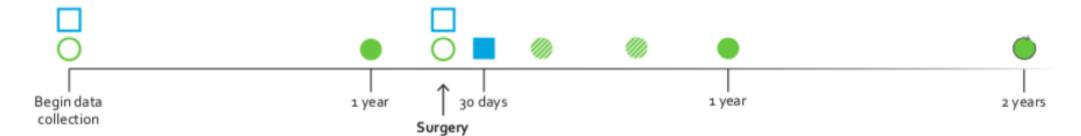
How satisfied are you with the results of your treatment?  [TREATSAT]
O Very satisfied
O Satisfied
O Neither satisfied nor dissatisfied
O Unsatisfied
O Very unsatisfied
What is your work status?  [EMPLOYMENT]
O Unable to work due to a condition other than osteoarthritis
O Unable to work due to osteoarthritis
O Not working by chose (student, retired, homemaker)
O Seeking employment (I consider myself able to work but cannot find a job)
O Working part-time
O Working full-time

Clinical

Example 1:



#### Example 2:



# Who is the data applicable to?

#### **Treatment Variables**

<b>Patient Population</b>	Measure	Supporting Information	Timing	Data Source	
All patients	Treatment progression	Indication of the treatments undergone for osteoarthritis in the past year	Parallag	Patient-reported	
	Care utilization	Indication of the health care providers consulted for treatment of osteoarthritis in the past year	Baseline; Annually		
Surgical patients	Date of procedure	N/A		Clinical or administrative data	
	Operative joint	Joint on which procedure was performed	Post-surgery		
	Orthopedic procedure	Type of procedure			

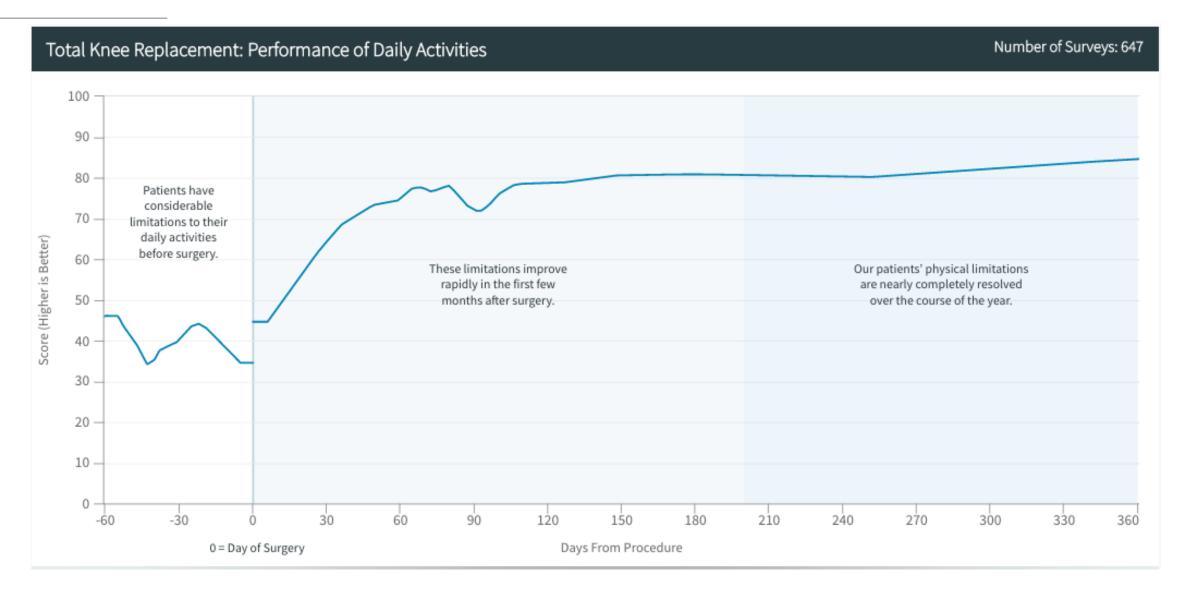
#### Case-Mix Variables

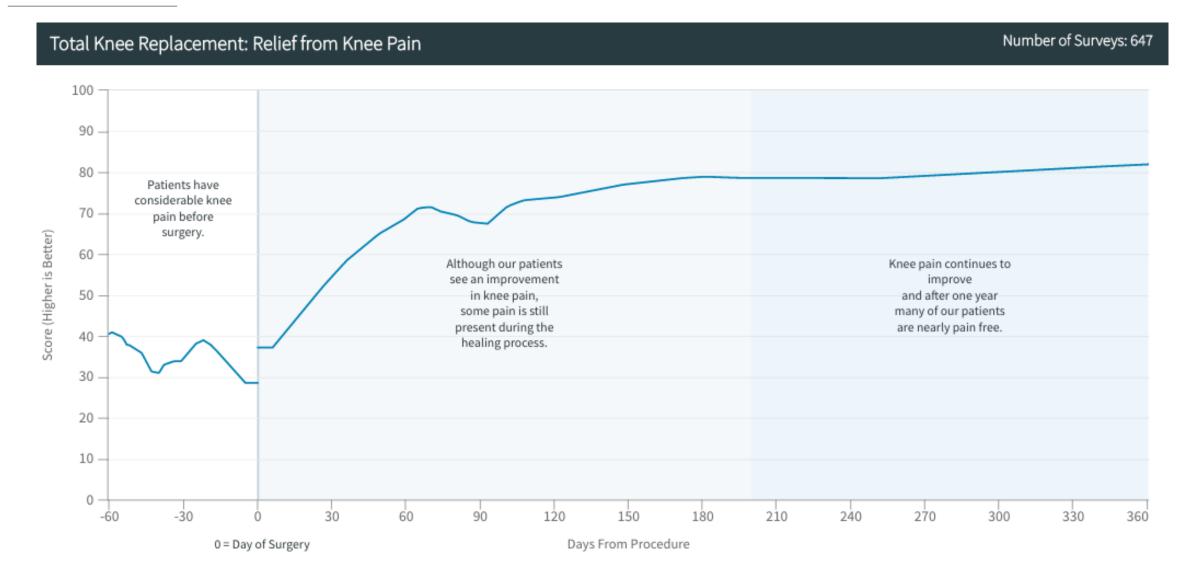
Patient Population	Measure	Supporting Information	Timing	Data Source	
<b>Demographic Factor</b>	s				
	Date of birth	N/A			
All patients	Patient sex	Sex at birth	Baseline	Patient-reported	
	Education level	Level of education completed			
Baseline Clinical Stat	hiis				
Daseille Cililical Stat	103	History or finding of trauma or		Clinical or	
		injury, congenital or			
	Joint specific history	developmental disorders, or			
All patients	,	other joint disorders in the	Baseline	administrative	
,		hips or knees		data	
	Joint specific surgical	History of previous surgery on			
	history	hips or knees			
Case-Mix Factors					
Cusc-mix ractors				Patient-reported	
	Body mass index	Height and weight		or clinical data	
		Living alone, with family, or in			
	Living condition	a nursing home or other			
		facility			
	Laterality of affected	Indication of which joint(s)			
	joint(s)	is(are) affected at baseline			
	History of surgery on	Patient reported history of			
	the hip or knee	previous surgery on hips or			
		knees	Daralina		
All patients	Physical activity*	Physical activity Use of cigarettes, cigars, or	Baseline; Annually		
	Tobacco smoking status	other tobacco products	Allifodity	Patient-reported	
		Presence of:			
		Cancer, depression, diabetes,			
	Co-morbid conditions	disease of the nervous			
		system, heart disease,			
		hypertension, kidney disease,			
		liver disease, lung disease,			
		peripheral vascular disease,			
		rheumatoid arthritis or other			
		arthritis, spinal disease			

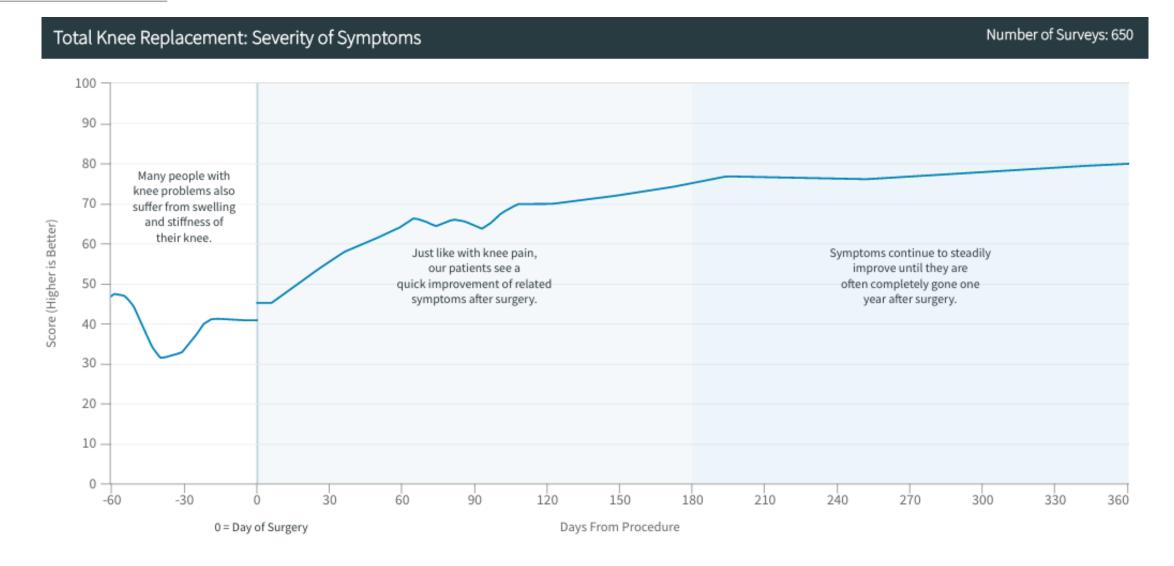
Done!!!

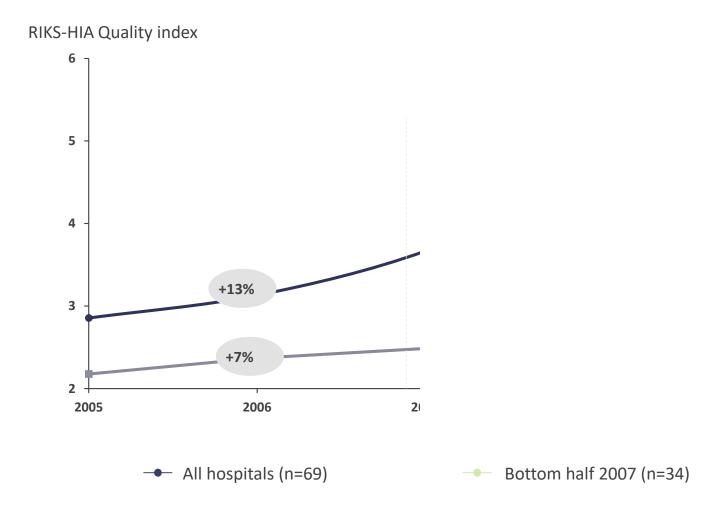
So what do you get out of this data?

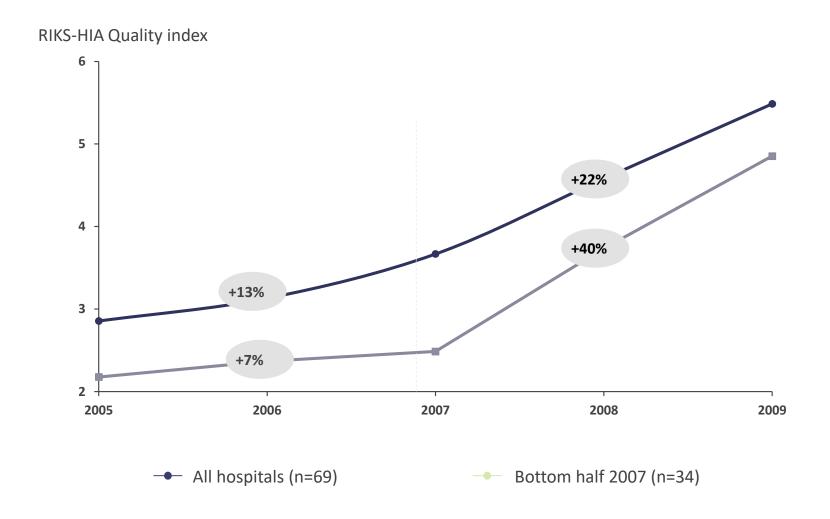
# Recall yesterday – Daily Activities











# MYIA Thank You! Questions?