

Diagram of the study:

Flow chart					
<input checked="" type="checkbox"/> = Present	baseline	J45	J+3 mois	J+6 mois	J+12 mois
Inclusion and exclusion criteria	<input type="checkbox"/>				
Informed consent	<input type="checkbox"/>				
Demographic data	<input type="checkbox"/>				
Blood sample (vit D + cholesterol)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical examination/function tests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Constant-Murley	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VAS pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SSV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MRI rotator cuff imaging					<input type="checkbox"/>

	Selection	Study period				
	D-60 to J0 ^a	J0 ^a	M1,5	M3	M6	M12
Visits	V1	V2	V3	V4	V5	V6 End of study
Free and informed consent	X					
Verification of eligibility criteria	X					
Previous treatments	X					
Concomitant treatments ^b	X	X				

	Selection	Study period				
	D-60 to J0 ^a	J0 ^a	M1,5	M3	M6	M12
Visits	V1	V2	V3	V4	V5	V6 End of study
Comorbidités	X	X	X	X	X	X
Clinical examination (height, weight, BMI, mobility)	X		X	X	X	X
Pre-anesthetic blood tests	X					
Blood tests ^c	X ^d					
Randomisation	X					
Demographics (age, inclusion number and date of consent)	X					
Surgery		X				
Evaluation offunction, pain, mobility: Score Constant-Murley (Completed by you and your doctor) Score ASES (Completed by yourself)	X X		X X	X X	X X	X X
Function Evaluation: Score SSV (Completed by yourself)	X		X	X	X	X
Pain assessment: Score EVA (Completed by yourself)	X		X	X	X	X
Imaging (MRI)						X
Follow-up of surgical complications / readmissions / rehospitalizations			X	X	X	X
Unwanted events	X	X	X	X	X	X
Patient diary (completed daily) ^e		X	X			
^a The date of signature of the consent will act as J0 for the 2 groups. ^b Particularly treatments for blood pressure, diabetes, dyslipidemia and sleep apnea. ^c Research-specific reviews:						

	Selection	Study period				
	D-60 to J0 ^a	J0 ^a	M1,5	M3	M6	M12
Visits	V1	V2	V3	V4	V5	V6 End of study
<div>- Vitamin D balance (25-hydroxyvitamin D and 1.25 dihydroxyvitamin D)</div> <div>- Lipid balance (total cholesterol, LDL cholesterol, HDL cholesterol and triglycerides)</div> <div>- If diabete:Lycated Emoglobin H (HbA1c)</div> <div>^d Results should be dated no more than 60 days before J0.</div> <div>^e Only for patients in the biomodulation group the day after the procedure (J0)</div>						