

quibim

Quantitative Imaging Biomarkers in Medicine

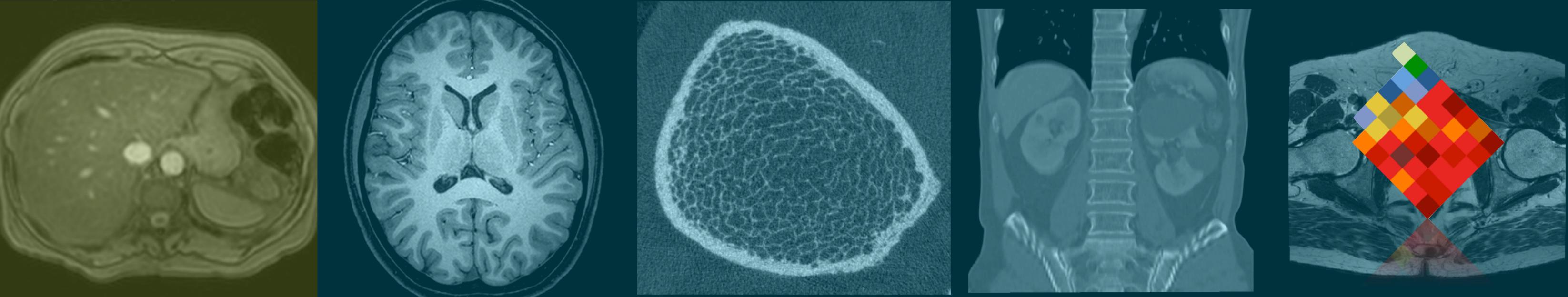
www.quibim.com



@Quibimbiomarker



ENFERMEDAD vs. OJO

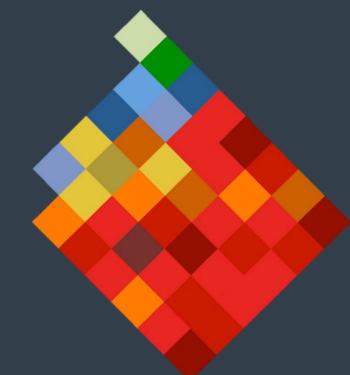


Las enfermedades y los tratamientos producen cambios susceptibles e imperceptibles para el ojo humano

La evaluación clínica de las imágenes médicas sigue siendo cualitativa, basada en la inspección visual

**LA NECESIDAD:
MEDIR**





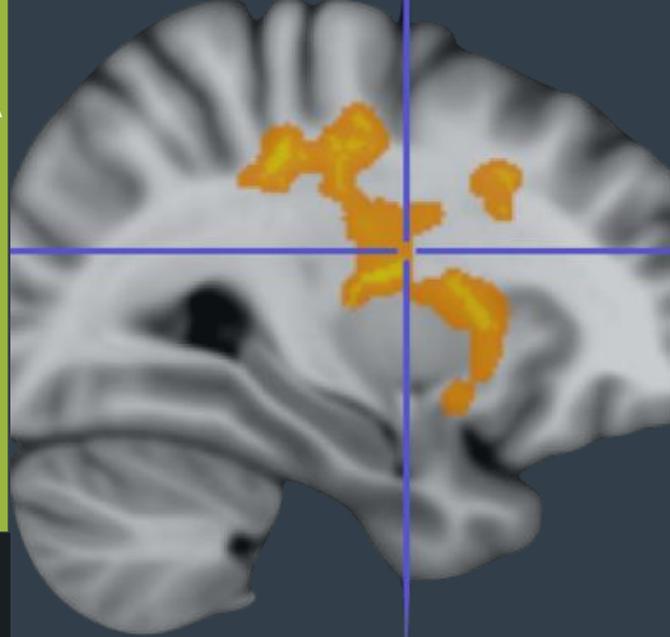
“When you can measure what you are speaking about, and express it in numbers, you know something about it”

Lord Kelvin

ONCOLOGÍA

Tumores sólidos
hematología

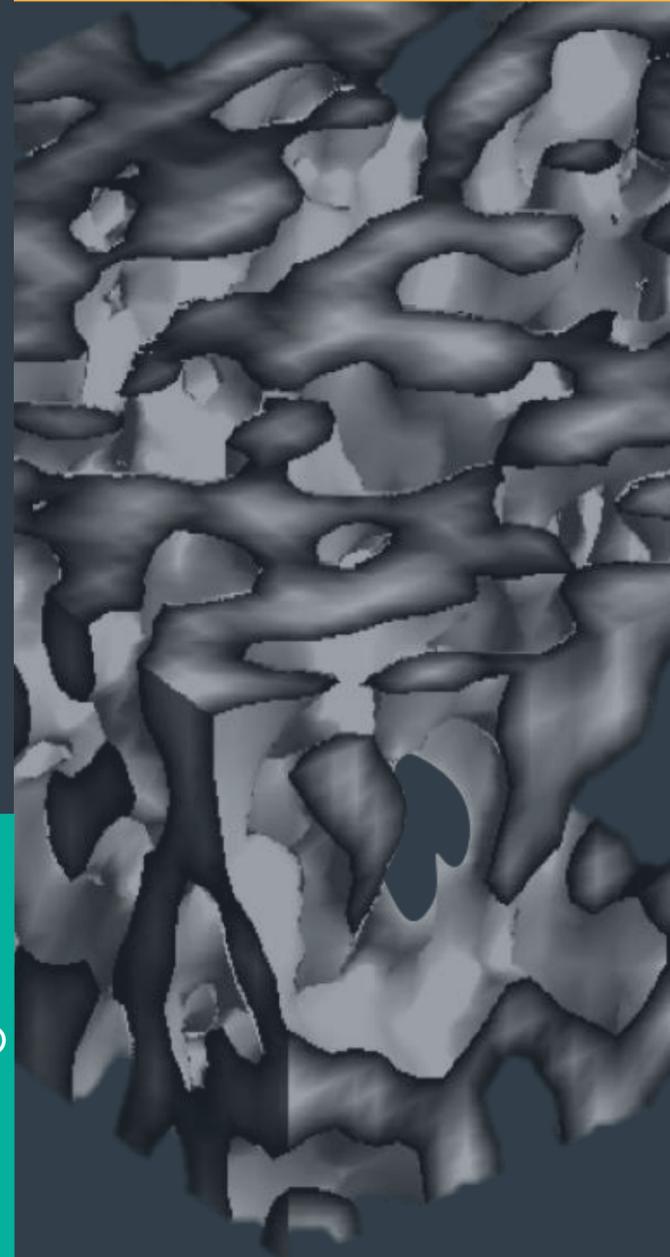
.....
Difusión (IVIM, DKI), Modelo
farmacocinético, Infiltración
de médula ósea, Análisis
multiparamétrico



HUESO

Osteoporosis

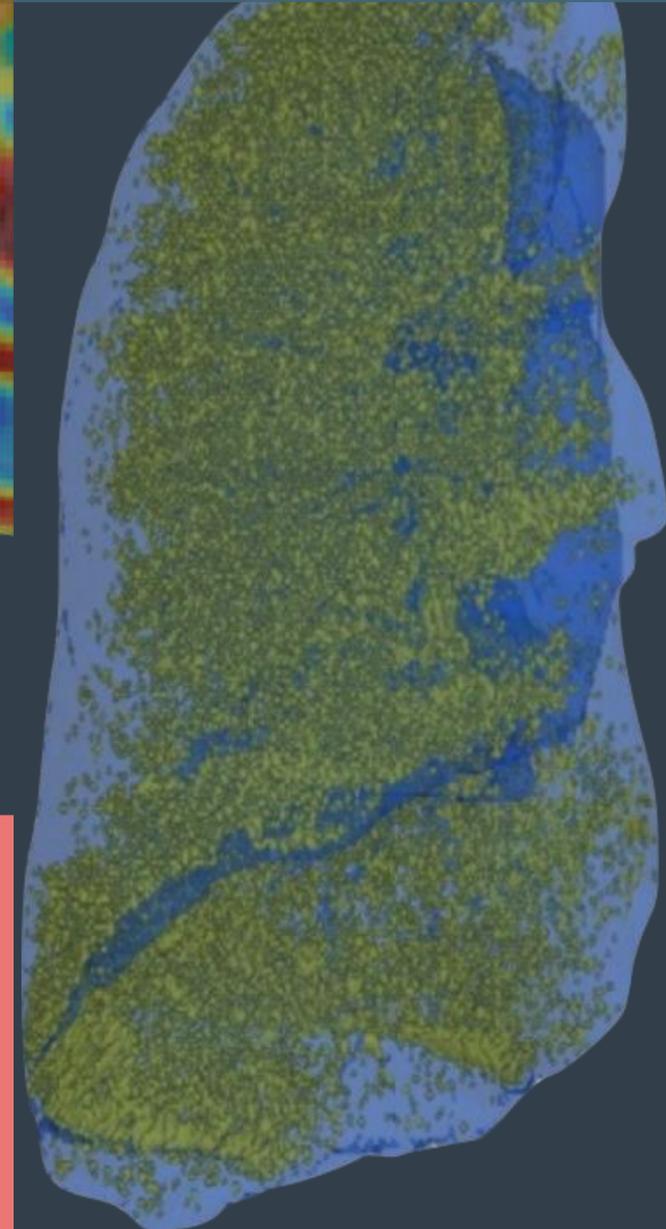
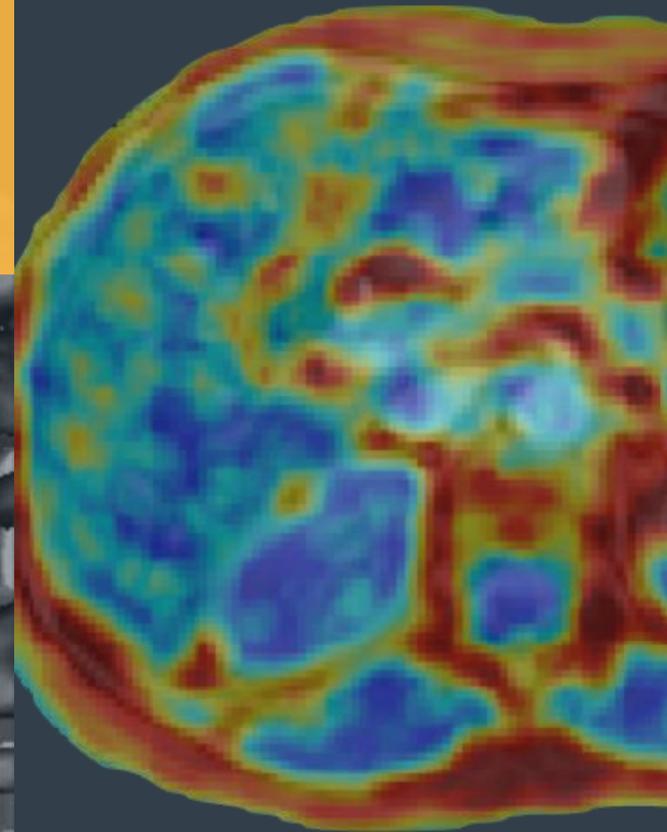
.....
Morfología trabecular,
irregularidad fractal,
anisotropía, resistencia
mecánica y elasticidad



PULMÓN

EPOC

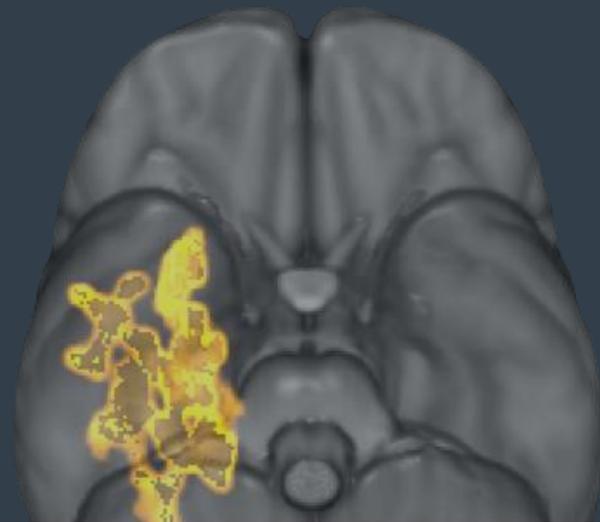
.....
Volumen pulmonar y lóbulos,
porcentaje de enfisema,
espesor bronquial y traquial



NEURO

Alzheimer, ELA, MS, Infarto

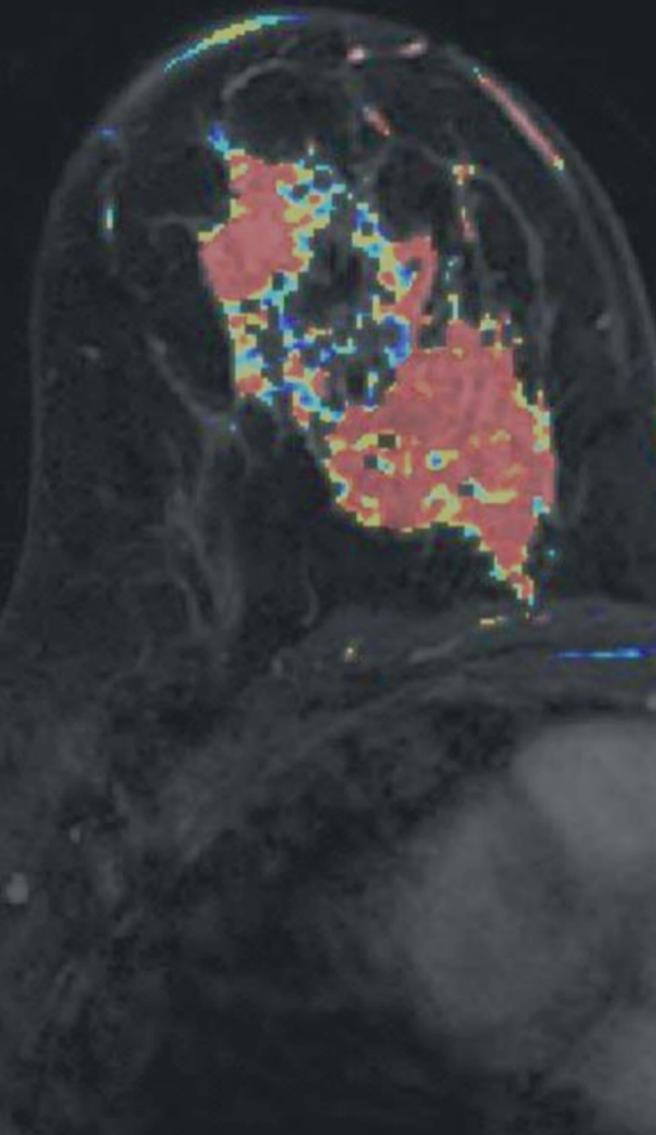
.....
Volumetría, espesor cortical,
segmentación de lesiones,
cuantificación de hierro,
tractografía



HÍGADO

Esteatohepatitis, fibrosis,
hemocromatosis

.....
Cuantificación de fracción
grasa, concentración de
hierro, Difusión-IVIM

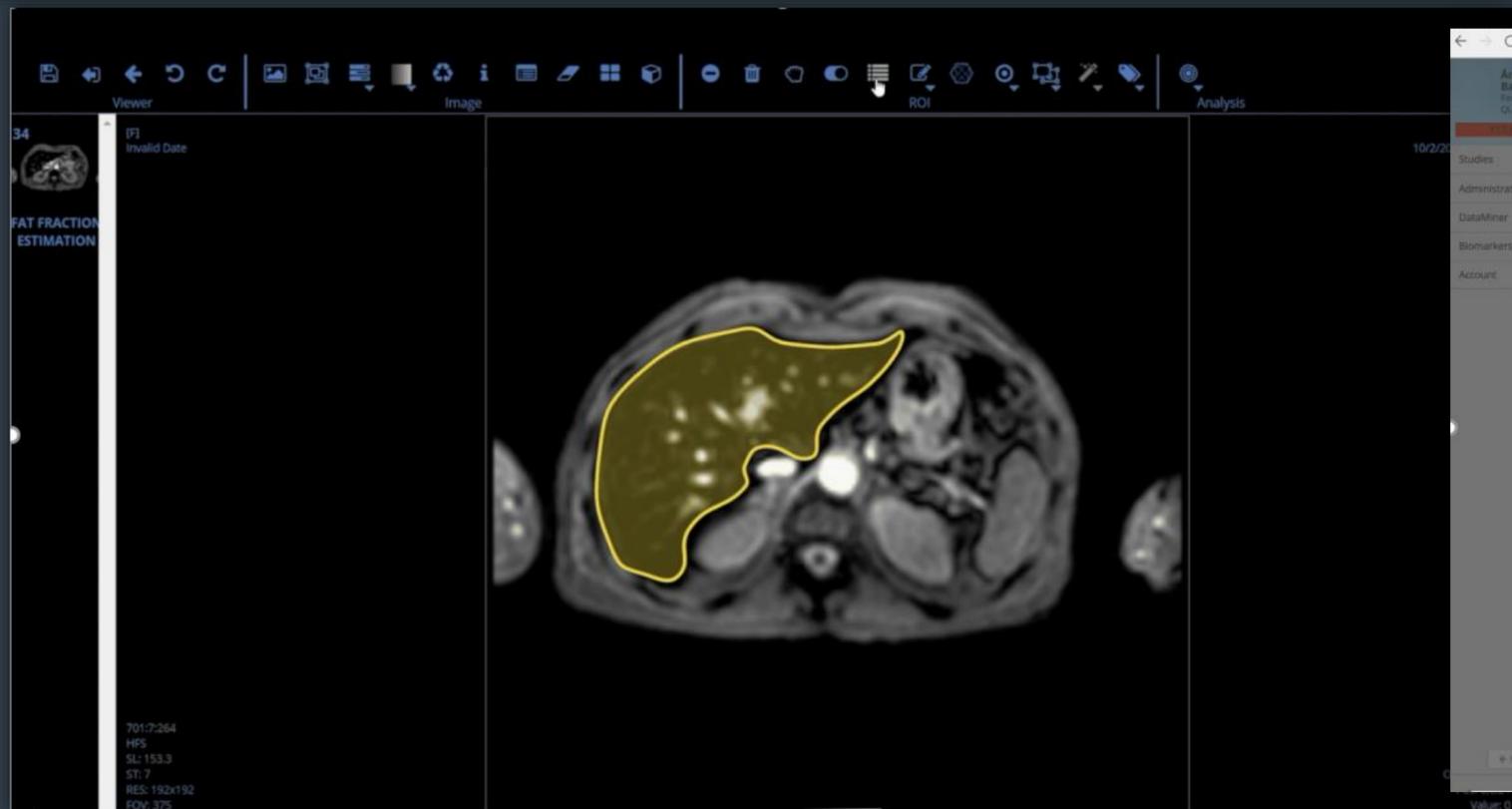
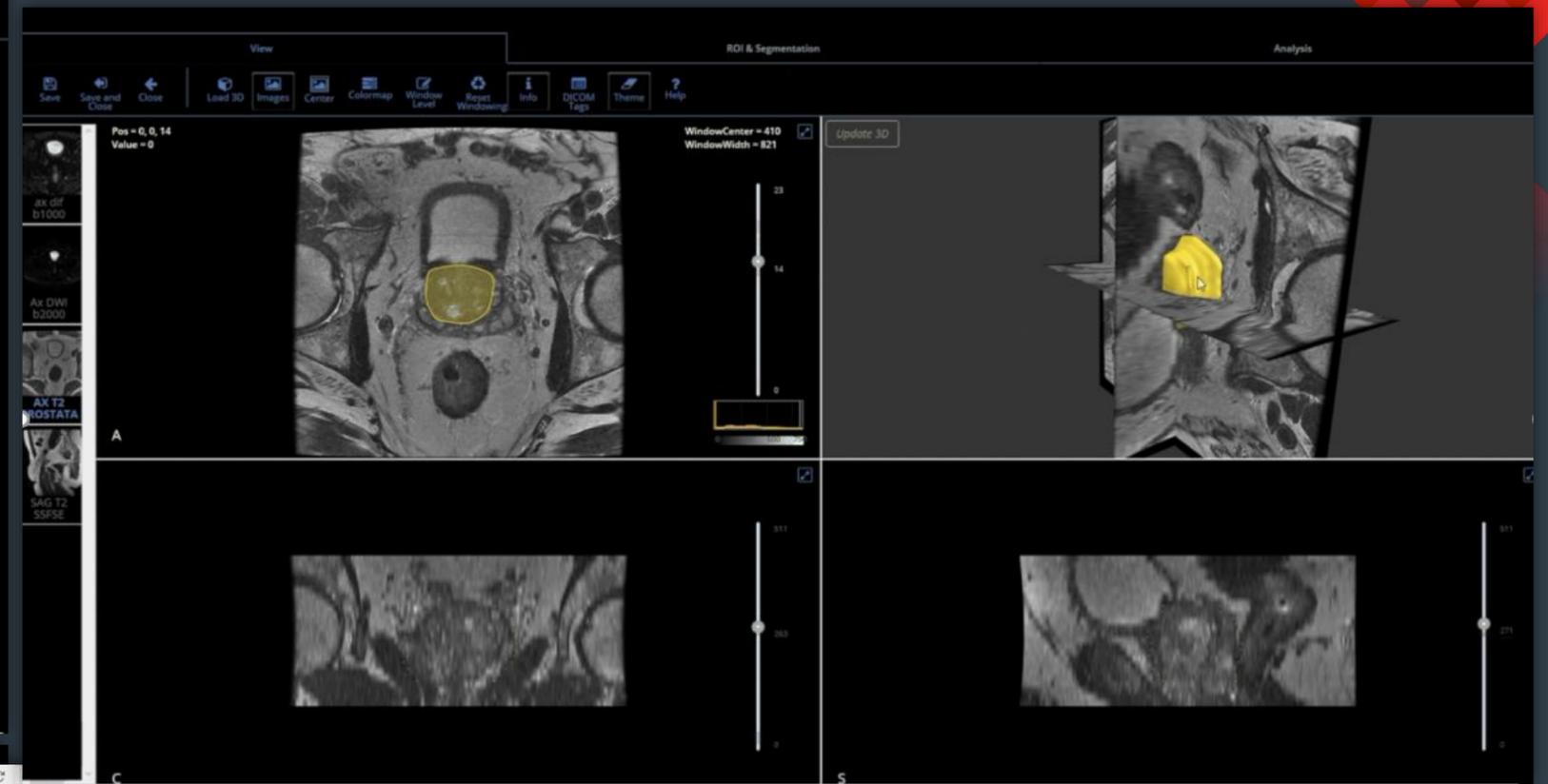
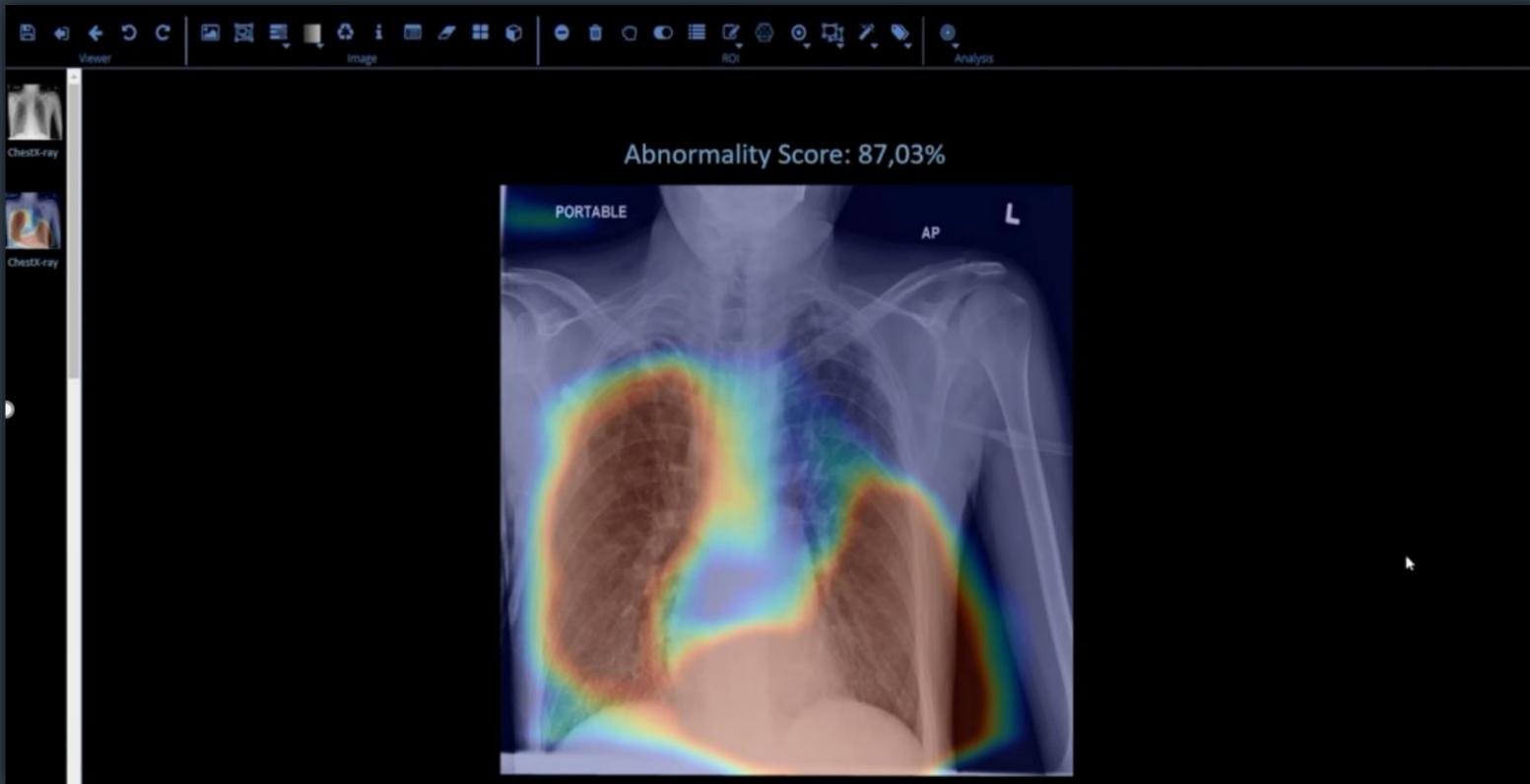


QUIBIM Precision®



Nuestra plataforma en la nube que **integrada con el PACS del centro** permite el análisis automatizado de imágenes médicas y la extracción biomarcadores para la **mejora del diagnóstico, seguimiento y pronóstico de la enfermedad en el paciente**

INTELIGENCIA ARTIFICIAL



Study results

Action	ROI	Patient	Patient ID	Fat Fraction Mean	Fat Fraction Standard de...	Fat Fraction Median	Fat Fraction p25	Fat Fraction p75
FREEFORM		P139_F146	P139_F146	11.270789	13.293409	4.042278	4.242278	16.700346
FREEFORM		P139_F146	P139_F146	18.478394	15.010668	17.421067	2.996029	31.585705

Report images

ROI: FREEFORM

Fat Fraction (%)

0 of 5

INFORMES ESTRUCTURADOS



NEURO

LUNG

BONE

LIVER

ONCO

Brain Volumetry

Imaging Center	ERESCANE
Modality	MR
Study Description	RM11
Study Date	14/07/2015

Brain Parenchyma Fraction (%)	76.46
Gray Matter Absolute Volume (mL)	604.53
White Matter	405.27
CSF	310.75

Lung Emphysema

Imaging Center	PICTUR
Modality	CT
Study Description	Thorax^JIC_THOR
Study Date	26/03/2016

Emphysema %	Left Lung	Right Lung
Total Lung	0.55	
Upper Third	0.67	
Middle Third	0.44	
Lower Third	0.59	

Total Lung: 1.03 %

Vertebral Column Bone Assessment

Imaging Center	DE
Modality	DE
Study Description	R1 COLUMNA
Study Date	

VERTEBRAE ASSESSMENT	MEAN	STD. DEV.	ENTROPY
L5	3331.99	342.13	6.66
L4	3854.00	317.28	6.63
L3	3216.38	303.39	6.55
L2	2136.21	387.84	6.63
L1	2013.25	370.46	6.51
D12	1507.66	368.20	6.37
D11	1877.39	323.51	6.29
D10	1421.40	341.54	6.16
D9	1482.82	312.79	6.23
D8	1441.34	242.94	6.09
D7	1719.27	258.88	6.45
D6	2047.89	231.36	6.43
D5	2358.89	370.38	6.71
D4	2625.17	382.17	6.28

Body Liver Fat & Iron

Imaging Center	
Modality	MR
Study Description	
Study Date	20160210

Mean	
Std	
Median	
p25	
p75	

Body Diffusion Weighted Imaging IVIM

Imaging Center		Patient Name	
Modality	MR	Patient ID	
Study Description	BODY^BRZUCH	Patient Sex	M
Study Date	2015/04/20	Birthdate	JHto/80/8/

ADC [mm²/s]	Mean ± Std	Median	p25	p75
D [s/mm²]	1.29e-03 ± 5.88e-04	1.31e-03	9.70e-04	1.66e-03
D2 [s/mm²]	4.76e-02 ± 4.00e-02	3.33e-02	1.07e-02	9.99e-02
f [%]	0.33 ± 0.21	0.31	0.18	0.50

Data from this quantification report should be considered as the results of research with an evidence level 2 (Centre for Evidence-based Medicine) in phase of clinical approval. QUIBIM S.L. - Quantitative Imaging Biomarkers in Medicine.

*Patent 2011.331.295. Segmentation method by adaptive thresholding.

Data from this quantification report should be considered as the results of research with an evidence level 2 (Centre for Evidence-based Medicine) in phase of clinical approval. QUIBIM S.L. - Quantitative Imaging Biomarkers in Medicine.

*Threshold for fracture detection (Non-fracture Fracture).

Data from this quantification report should be considered as the results of research with an evidence level 2 (Centre for Evidence-based Medicine) in phase of clinical approval. QUIBIM S.L. - Quantitative Imaging Biomarkers in Medicine.

Data from this quantification report should be considered as the results of research with an evidence level 2 (Centre for Evidence-based Medicine) in phase of clinical approval. QUIBIM S.L. - Quantitative Imaging Biomarkers in Medicine.

Data from this quantification report should be considered as the results of research with an evidence level 2 (Centre for Evidence-based Medicine) in phase of clinical approval. QUIBIM S.L. - Quantitative Imaging Biomarkers in Medicine. Avenida Fernando Abril Martorell 106, Torre A, Bioparc La Fe, Valencia (SPAIN).

CLIENTES



QUIBIM Care

Clínicos innovadores e investigadores

**TU DEPARTAMENTO DE RADIOLOGÍA
CUANTITATIVA!**

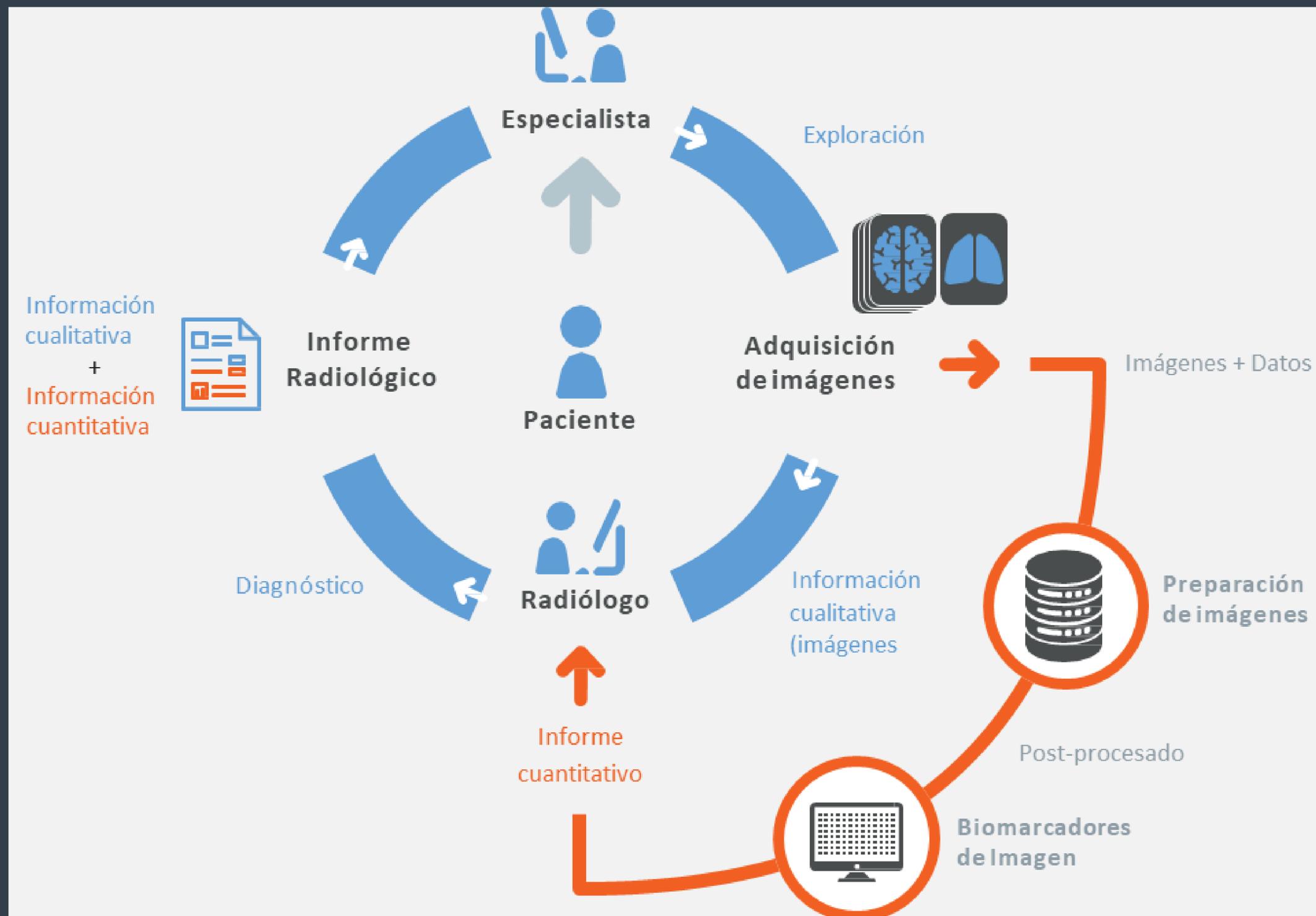


QUIBIM Pharma

CRO's and Compañías Biotech

**MONITORIZA LA EFECTIVIDAD DEL
FÁRMACO EN TIEMPO REAL!**

INTEGRACIÓN EN EL FLUJO RADIOLÓGICO



DEPARTAMENTO DE RADIOLOGÍA CUANTITATIVA

- ✓ DIAGNÓSTICOS PRECISOS Y EN FASE TEMPRANA
- ✓ ADECUACIÓN DEL TRATAMIENTO
- ✓ PRONÓSTICO DE LA ENFERMEDAD
- ✓ REDUCCIÓN DEL TIEMPO DE INFORMADO
- ✓ REDUCCIÓN DE PRUEBAS INVASIVAS
- ✓ CALIDAD DEL SERVICIO Y OPTIMIZACIÓN DE RECURSOS



be
quantitative
quibim

encarnasanchez@quibim.com