

BMA™

High Resolution Digital X-Ray for Skeletal Ultra Analysis

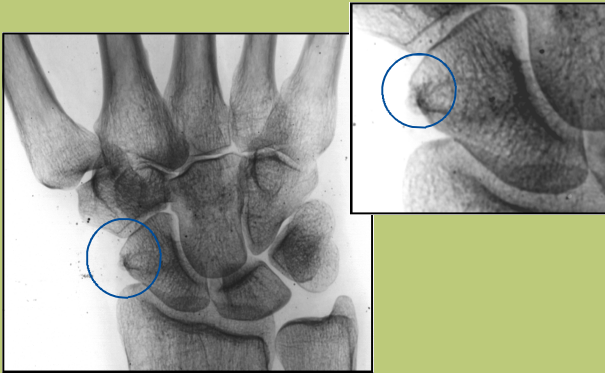
Early radiographic diagnosis and subchondral bone microarchitecture quantification in Arthritis

With the current therapeutic focus in arthritis shifting from symptom control to actual disease modification, there is a growing demand for more objective and sensitive ways to evaluate bone erosion, joint-space narrowing and sub-chondral tissue microarchitecture quantification.

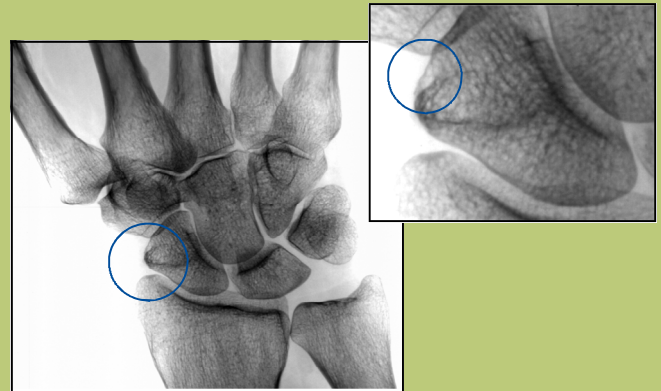
Rheumatoid Arthritis

Early detection of erosions

Conventional X-Ray



BMA High Resolution digital X-Ray



With the courtesy of Pr. Dr. P. Geusens (U Hasselt, Belgium and azMaastricht, Netherlands)

Sub-chondral bone microarchitecture of MCP joints

Ipros - CHR Orléans
Microarchitectural analysis

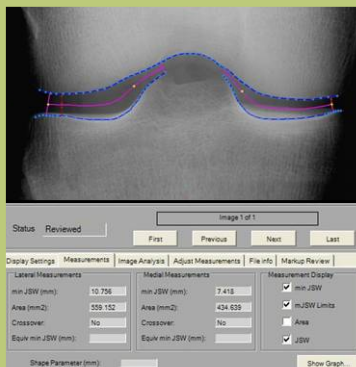
Patient:
Last name:
First name:
Date of birth: 10/Oct/1962
Sex: Female
Ethnic group: White
Patient height: 166 cm
Patient weight: 55kg

Examination:
Date of examination: 21/Jan/2008
Physician:
Radiographer: CG
Anatomical site: Hand (right)
Adjustment parameters: 50kV - 8 mAs
Dose: 0.29 mGy
Apparatus serial number: BA16004

Results:		Fractal	Cooccurrence Matrix	Run Length Encoding
Date of examination	Anatomical site	Value	Value	Value
21/Jan/2008	Hand (right)	0.615	1.745	1.370

Osteoarthritis

JSW measurement using Optasia "Knee Analyser"



Optasia Medical
THE SCIENCE OF IMAGE UNDERSTANDING

Quantification of sub-chondral sclerosis and bone loss in sub-articular region

Ipros - CHR Orléans
Microarchitectural analysis

Patient:
Last name:
First name:
Date of birth: 04/May/1957
Sex: Male
Ethnic group: White
Patient height: 170 cm
Patient weight: 71kg

Examination:
Date of examination: 07/Jan/2008
Physician:
Radiographer: CG
Anatomical site: Knee (left)
Adjustment parameters: 60kV - 20 mAs
Dose: 1.18 mGy
Apparatus serial number: BA16004

Results:		Fractal	Cooccurrence	Run Length Encoding	
Date of examination	Anatomical site	Direction	Value	Value	Value
07/Jan/2008	Knee (left) medial	vertical	0.646	3.979	2.950
07/Jan/2008	Knee (left) medial	horizontal	0.637	3.905	2.918
07/Jan/2008	Knee (left) lateral	vertical	0.589	3.479	2.546
07/Jan/2008	Knee (left) lateral	horizontal	0.557	3.330	2.487