

**En** Advanced Body Composition Analysis



# DEEPCATCH

FDA 510(k) Clearance



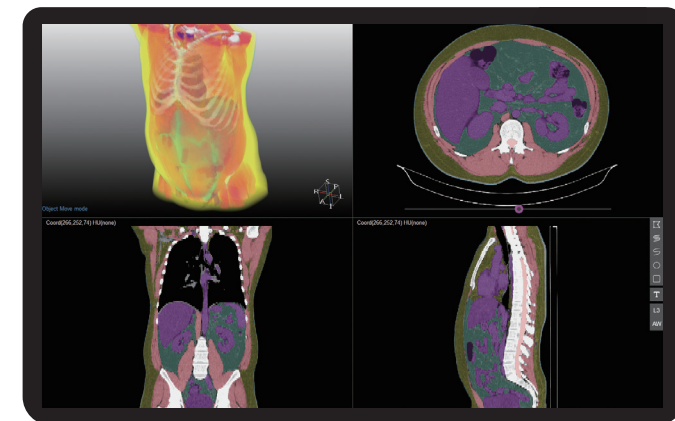


## Product Information

Automatic Analysis	02
Advanced Function for Accurate Profiling	04
Lifelog Report	05

## 01 :: Automatic Analysis

DEEPCATCH automatically analyzes the whole-body composition from CT images to provide accurate figures and information. Based on quantitative information on body composition, various diseases, such as obesity and sarcopenia, can be detected and monitored. Furthermore, it can be used for early detection of metabolic diseases.



**All types of DICOM** regardless of CT manufacturers

**Immediate analysis results** after CT scan

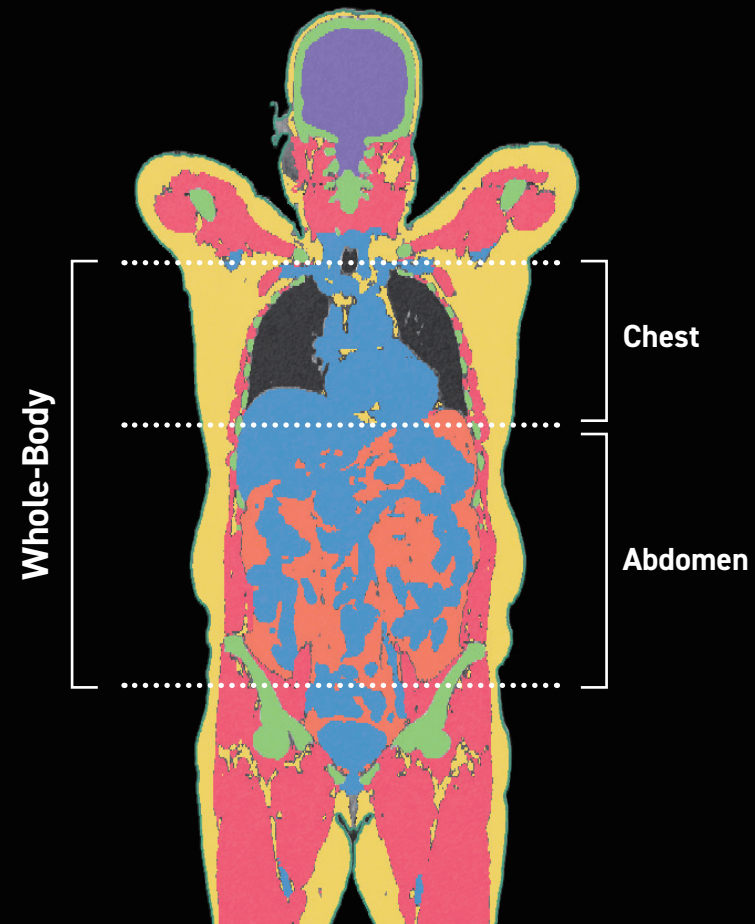
**Macro functionality** for mass data analysis (Optional)

**Automatic One-click body composition analysis** using AI deep learning with **97% accuracy**

Target Organ	Accuracy
Skin	94.05 %
Bone	98.10 %
Muscle	98.15 %
Abdominal visceral fat	95.06 %
Subcutaneous fat	97.10 %
Internal organs	97.59 %
Central nervous system	98.03 %
Average	97.63 %



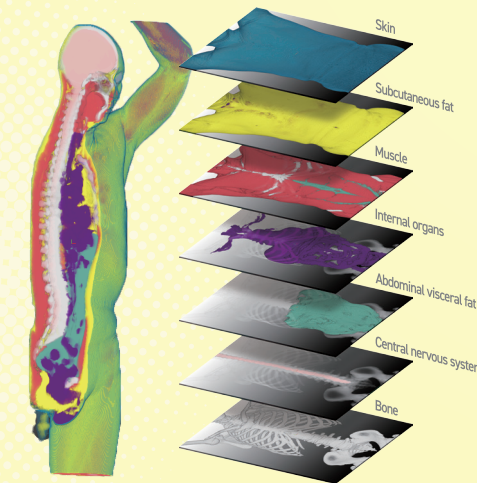
## Whole-Body Composition Analysis with any CT scan data



	Bone	3.79 l
	Muscle	12.71 l
	Abdominal visceral fat	3.23 l
	Subcutaneous fat	18.63 l
	Internal organs	5.20 l
	Central nervous system	1.44 l
	Skin	1.89 l

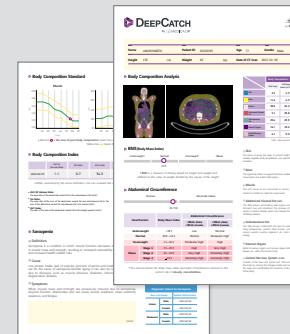
## 02 :: Advanced Function for Accurate Profiling

### Biomarker for Opportunistic Screening

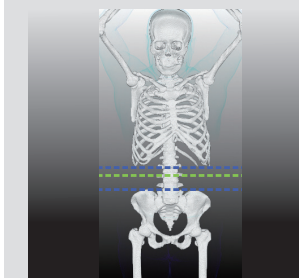
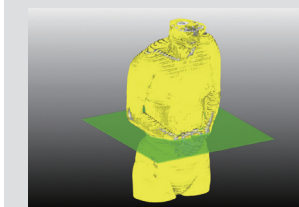


- Sarcopenia
- Myosteatosis
- Osteoporosis
- Liver Steatosis
- Aorta Calcification

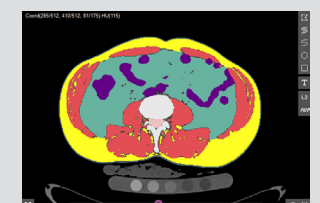
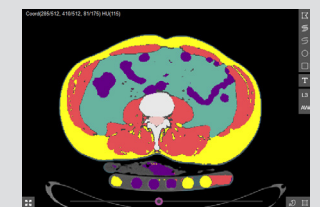
- Quantitative information for muscle quality and obesity with numerical-3D visualized report



- Auto-detection of L3 and AW (AW: abdominal waist)



- Removal of Arm / QCT Phantom from body trunks





03:: Lifelog Report

Numerical and 3D Visualized Information of Body Composition

DEEPCATCH

by MEDICAL IP

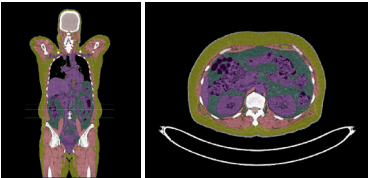
DEEPCATCH

by MEDICAL IP

Name ANONYMIZED Patient ID 00323395 Age 77 Gender Male

Height 170 (m) Weight 65 (kg) Date of CT Scan 2023.02.09

Body Composition Analysis



Body Composition (%)		
	Total Body	AW Region based on WHO
Skin	3.9	2.9
Bone	11.4	4.9
Muscle	30.0	22.2
Abdominal Visceral Fat	9.1	25.8
Subcutaneous Fat	25.4	25.5
Internal Organs	16.1	18.2
Central Nervous System	4.1	0.5

\* AW: Abdominal Waist

BMI (Body Mass Index)

Underweight Normal Overweight Obese

22.5

\* BMI is a measure of obesity based on height and weight and defined as the value of weight divided by the square of the height

Abdominal Circumference

Normal Abnormal Obese

86.9cm

Classification	Body Mass Index	Abdominal Circumference		
		<90cm (Male) <85cm (Female)	≥90cm (Male) ≥85cm (Female)	
Underweight	<18.5	Low	Normal	
Normal	18.5 ~ 22.9	Normal	Moderate High	
Overweight	23 ~ 24.9	Moderate High	High	
Obese	Stage 1	25 ~ 29.9	High	Very High
	Stage 2	30 ~ 34.9	Very High	Extremely High
	Stage 3	≥35.0	Extremely High	Extremely High

\* The interval where the body mass index and waist circumference intersect is the current risk of obesity comorbidities.

Sarcopenia

Definition

Sarcopenia is a condition in which muscle function decreases due to a decrease in muscle mass and strength, resulting in increased vulnerability to various stimuli and increased health-related risks.

Cause

Low protein intake, lack of exercise, and lack of amino acid intake and absorption can be the cause of sarcopenia besides aging. It can also be caused secondarily due to diseases, such as muscle diseases, diabetes, infections, cancer, and degenerative diseases.

Symptoms

When muscle mass and strength are excessively reduced due to sarcopenia, physical function deteriorates and can cause muscle weakness, lower extremity weakness, and fatigue.

Skeletal Muscle Index

DEEPCATCH analysis on skeletal muscle index of NAME


is 42.9 at/m².

\* The European Working Group on Sarcopenia in Older People (EWG-SARCOP) estimated the prevalence of sarcopenia based on four criteria, and the diagnostic criteria for the skeletal muscle index are as follows.

Diagnostic Criteria for Sarcopenia	
Race and Gender	Skeletal Muscle Index
Asians	Male <36.5 at/m²
	Female <30.2 at/m²
Westerners	Male <50.0 at/m²
	Female <39.0 at/m²

MEMO

More Information



Providing Understandable Explanations through  
Compassionate Communication.

