

Infectious Disease

Disease / Medical condition	Biomarker	Imaging Technique	Investigators	Comments	Disease Category
Abscess	Leukocyte accumulation	SPECT	Fischman AJ	Tc-99m HMPAO improvement over Tl-201 and Ga-67	Neurological Inflammatory Musculoskeletal Genitourinary Infectious disease Gastrointestinal
Abscess	Restricted diffusion	Diffusion weighted imaging	Grant E Gonzalez RG Schaefer P		Neurological Inflammatory Infectious disease
AIDS wasting syndrome	Body fat composition	CT	Rosenthal DI		Endocrine Metabolic Musculoskeletal Infectious disease Gastrointestinal
AIDS wasting syndrome / lipodystrophy	Increased abdominal visceral fat associated with decreased bone mineral density	Quantitative CT Dual energy X-ray absorptiometry (DEXA)	Rosenthal DI		Endocrine Metabolic Musculoskeletal Infectious disease Gastrointestinal
Arthritis / septic	Cyst composition / tissue characterization	PET	Palmer W Rosenthal DI		Infectious disease Musculoskeletal Inflammatory
Arthritis / septic	Increased synovial glucose metabolism	MRI	Palmer W Rosenthal DI		Infectious disease Musculoskeletal Inflammatory
Arthritis / septic	Periarticular erosion	Plain radiographs MRI	Palmer W Rosenthal DI		Infectious disease Musculoskeletal Inflammatory
Arthritis / septic	Synovial thickening	Plain radiographs MRI	Palmer W Rosenthal DI		Infectious disease Musculoskeletal Inflammatory
Biliary parasitic disease	Biliary ductal dilatation	US CT MRI	Hahn P Mueller P O'Neill MJ		Gastrointestinal Infectious disease
Cerebral malaria	Diffuse cerebral edema with thalamic +/- cerebellar hypoattenuation	CT	Gonzalez RG		Neurological Infectious disease
Cholangitis	Ductal dilatation	MRI	Prasad S Sahani D	MR cholangio-pancreatography	Gastrointestinal Infectious disease Inflammatory
Cholecystitis	Gallstones Gallbladder wall thickening	US CT MRI	Hahn P Mueller P O'Neill MJ		Endocrine Inflammatory Infectious disease Gastrointestinal
Cholelithiasis	Gallstones	US CT MRI	Hahn P Mueller P O'Neill MJ		Endocrine Inflammatory Gastrointestinal Metabolic
Cirrhosis	Caudate lobe enlargement Right Posterior Hepatic notch	MRI CT	Hahn PF Sahani D	Discrimination of alcohol from virus-induced cirrhosis	Gastrointestinal Infectious disease Inflammatory
Encephalitis / west Nile virus	Thalamus and substantia nigra hyperintensity	MRI	Gonzalez RG Sorensen AG	Disease confirmation and progression monitoring	Neurological Infectious disease Inflammatory
HIV	Directed molecular probes	MRI PET Optical	Weissleder R		Infectious disease
HIV	Increased Cerebral blood volume (CBV)	fMRI	Gonzalez RG Hunter G	Cerebral injury related to HIV infection	Infectious disease
Infectious disease -Empyema -Herpes virus -CJD	Restricted diffusion	Diffusion weighted imaging	Grant E Schaefer P		Neurological Infectious disease

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Interstitial pulmonary edema	Increased pulmonary interstitial markings	CT	McLoud TC Shepard J		Inflammatory Cardiology / Vascular Infectious disease
Intra-abdominal abscess	Cyst composition / tissue characterization	US CT MRI	Mueller P		Gastrointestinal Genitourinary Infectious disease
Myocarditis	Myocardial function contractility Perfusion / diffusion	MRI	Brady T		Cardiology / Vascular Inflammatory Infectious disease Endocrine Metabolic
Myocarditis	Myocardial function contractility Perfusion / diffusion	Nuclear medicine	Fischman AJ		Cardiology / Vascular Inflammatory Infectious disease Endocrine Metabolic
Myopathy	Soft tissue inflammation	MRI	Palmer W Rosenthal DI		Endocrine Inflammatory Infectious disease Cardiology / Vascular
Osteomyelitis	Leukocyte accumulation	Nuclear medicine	Fischman AJ	Radiolabeled IL-8 accumulation	Infectious disease Musculoskeletal
Osteomyelitis	Osteoblastic activity	Nuclear medicine	Fischman AJ	Uptake of bone-seeking radio-pharmaceuticals	Musculoskeletal Infectious disease
Pancreatitis	Chemotactic peptide uptake	SPECT	Fischman AJ	Via 99mTc labeled peptide analog	Gastrointestinal Inflammatory Metabolic Infectious disease
Pancreatitis	Ductal irregularity or obstruction	MRI	Prasad S Sahani D Saini S	Visualized by MR cholangio-pancreatography	Gastrointestinal Inflammatory Metabolic Infectious disease
Pneumonia	Pulmonary consolidation	CT MRI Plain radiographs	McLoud TC Shepard J		Infectious disease
Pneumonitis	Pulmonary consolidation	CT MRI Plain radiographs	McLoud TC Shepard J		Infectious disease Inflammatory
Pulmonary infection	Increased pulmonary interstitial markings	CT	McLoud TC Shepard J		Infectious disease
Respiratory syncytial virus	Ground-glass appearance Opacities Acute bronchial dilatation Wall thickening	CT	McLoud TC Shepard J		Infectious disease
Soft tissue infection	Leukocyte accumulation	Nuclear medicine	Fischman AJ		Infectious disease Musculoskeletal Inflammatory
Soft tissue infection	Osteoblastic activity	Nuclear medicine	Fischman AJ		Infectious disease Musculoskeletal Inflammatory
Soft tissue infection	Soft tissue inflammation	MRI Nuclear medicine	Fischman AJ Palmer W Rosenthal DI		Infectious disease Musculoskeletal Inflammatory