

**Medical Review Guidelines
Magnetic Resonance Imaging - Abdomen**

Medical Guideline Number: MRG2006-02

Effective Date: 10/1/2008
Reviewed Date: 12/2006
Revised Date: 1//2008
Revised Date: 11/2008

OHCA Reference OAC 317:30-5-24. Radiology. (f) *Magnetic Resonance Imaging. MRI /MRA scans are covered when medically necessary. Documentation in the progress notes must reflect medical necessity for the MRI.*

Description:

MRI is a noninvasive diagnostic scanning technique of representing the distribution of water and other hydrogen-rich molecules in the body in the absence of ionizing radiation and in the presence of a powerful, highly uniform, static magnetic field. MRI is useful in examining the head and central nervous system abnormalities.

MRI may also be useful in the diagnosis of mediastinal and retroperitoneal masses, including abnormalities of the large vessels such as aneurysms and dissecting aneurysms. MRI may be used to detect and stage pelvic and retroperitoneal neoplasms, to evaluate disorders of cancellous bone and soft tissues, and in the detection of pericardial thickening.

HCPCS CODES

74181 MRI, abdomen, without contrast material
74182 MRI, abdomen, with contrast material
74183 MRI, abdomen, without contrast material, followed by contrast material

COVERED ICD-9 CODES

150.2	Malignant neoplasm of abdominal esophagus
150.4	Malignant neoplasm of middle third of esophagus
150.5	Malignant neoplasm of lower third of esophagus
151.0	Malignant neoplasm of stomach, cardia
151.1	Malignant neoplasm of stomach, pylorus
151.2	Malignant neoplasm of stomach, pyloric antrum
151.3	Malignant neoplasm of stomach, fundus of stomach
151.4	Malignant neoplasm of stomach, body of stomach
151.8	Malignant neoplasm of stomach, other specified sites
152.0	Malignant neoplasm of duodenum
152.1	Malignant neoplasm of jejunum
152.2	Malignant neoplasm of ileum
152.3	Meckel's diverticulum
152.8	Malignant neoplasm of other specified sites of small intestine
153.0	Malignant neoplasm of colon, hepatic flexure
153.1	Malignant neoplasm of colon, transverse colon
153.2	Malignant neoplasm of colon, descending colon
153.4	Malignant neoplasm of colon, cecum
153.5	Malignant neoplasm of colon, appendix
153.6	Malignant neoplasm of colon, ascending colon

153.7	Malignant neoplasm of colon, splenic flexure
155.0	Malignant neoplasm liver, primary
155.1	Malignant neoplasm, intrahepatic bile ducts
155.2	Malignant neoplasm, liver, not specified as primary or secondary
156.0	Malignant neoplasm, gallbladder
156.1	Malignant neoplasm, extrahepatic bile ducts
156.2	Malignant neoplasm, Ampulla of Vater
157.0	Malignant neoplasm, head of pancreas
157.1	Malignant neoplasm, body of pancreas
157.2	Malignant neoplasm, tail of pancreas
157.3	Malignant neoplasm, pancreatic duct
157.4	Malignant neoplasm, Islets of Langerhans
158.0	Malignant neoplasm, retroperitoneum
158.8	Malignant neoplasm, specified parts of peritoneum
159.1	Malignant neoplasm, spleen, not elsewhere classified
189.0	Malignant neoplasm of kidney and other and unspecified urinary organs, kidney except pelvis
189.1	Malignant neoplasm of renal pelvis
189.2	Malignant neoplasm of ureter
194.0	Malignant neoplasm of other endocrine glands and related structures, adrenal gland
195.2	Malignant neoplasm of abdomen
196.2	Secondary malignant neoplasm of intra-abdominal lymph nodes
197.4	Secondary malignant neoplasm of small intestine, including duodenum
197.5	Secondary malignant neoplasm of large intestine and rectum
197.6	Secondary malignant neoplasm of retroperitoneum and peritoneum
197.7	Secondary malignant neoplasm of liver, specified as secondary
198.0	Secondary malignant neoplasm of kidney
200.03	Reticulosarcoma of intra-abdominal lymph nodes
200.07	Reticulosarcoma of spleen
200.08	Reticulosarcoma of lymph nodes of multiple sites
200.13	Lymphosarcoma of intra-abdominal lymph nodes
200.17	Lymphosarcoma of spleen
200.18	Lymphosarcoma of lymph nodes of multiple sites
200.23	Burkitt's tumor of intra-abdominal lymph nodes
200.27	Burkitt's tumor of spleen
200.28	Burkitt's tumor of lymph nodes of multiple sites
200.83	Other named variants, intra-abdominal lymph nodes
200.87	Other named variants, spleen
200.88	Other named variants, lymph nodes of multiple sites
201.03	Hodgkin's disease, intra-abdominal lymph nodes
201.07	Hodgkin's disease, spleen
201.13	Hodgkin's granuloma, intra-abdominal lymph nodes
201.17	Hodgkin's granuloma, spleen
201.23	Hodgkin's sarcoma, intra-abdominal lymph nodes
201.27	Hodgkin's sarcoma, spleen
201.43	Lymphocytic-histiocytic predominance, intra-abdominal lymph nodes
201.47	Lymphocytic-histiocytic predominance, spleen
201.53	Nodular sclerosis, intra-abdominal lymph nodes
201.57	Nodular sclerosis, spleen
201.63	Mixed cellularity, intra-abdominal lymph nodes
201.67	Mixed cellularity, spleen
201.73	Lymphocytic depletion, intra-abdominal lymph nodes
201.77	Lymphocytic depletion, spleen
202.03	Nodular lymphoma, intra-abdominal lymph nodes
202.07	Nodular lymphoma, spleen

202.13	Mycosis fungoides, intra-abdominal lymph nodes
202.17	Mycosis fungoides, spleen
202.23	Sezary's disease, intra-abdominal lymph nodes
202.27	Sezary's disease, spleen
202.33	Malignant histiocytosis, intra-abdominal lymph nodes
202.37	Malignant histiocytosis, spleen
202.43	Leukemic reticuloendotheliosis, intra-abdominal lymph nodes
202.47	Leukemic reticuloendotheliosis, spleen
202.53	Letterer-Siwe disease, intra-abdominal lymph nodes
202.57	Letterer-Siwe disease, spleen
202.63	Malignant mast cell tumors, intra-abdominal lymph nodes
202.67	Malignant mast cell tumors, spleen
202.83	Other lymphomas, intra-abdominal lymph nodes
202.87	Other lymphomas, spleen
202.93	Other and unspecified neoplasms, intra-abdominal lymph nodes
202.97	Other and unspecified neoplasms, spleen
203.00	Multiple myeloma, without mention of remission
203.01	Multiple myeloma in remission
203.02	Multiple myeloma in relapse
211.1	Benign neoplasm of stomach
211.2	Benign neoplasm of duodenum, jejunum, and ileum
211.3	Benign neoplasm of colon
211.5	Benign neoplasm of liver and biliary passages
211.6	Pancreas, except islets of Langerhans
211.7	Islets of Langerhans
211.8	Benign neoplasm, retroperitoneum and peritoneum
214.3	Benign neoplasm, intra-abdominal organs
255.0	Cushing's syndrome
255.10	Primary aldosteronism
255.11	Glucocorticoid-remediable aldosteronism
255.12	Conn's syndrome
255.13	Bartter's syndrome
255.14	Other secondary aldosteronism
255.2	Adrenogenital disorders
255.3	Other corticoadrenal overactivity
255.5	Other adrenal hypofunction
255.6	Medulloadrenal hyperfunction
277.01	Cystic fibrosis with meconium ileus
277.3	Amyloidosis
277.4	Disorders of bilirubin excretion
277.5	Mucopolysaccharidosis
289.4	Hypersplenism
441.00	Dissection of aorta, unspecified site
441.02	Dissection of aorta, abdominal
441.3	Abdominal aneurysm, ruptured
441.4	Abdominal aneurysm without mention of rupture
442.1	Other aneurysm of artery, renal artery
442.83	Other aneurysm of artery, splenic artery
442.84	Other aneurysm of artery, other visceral artery
444.0	Arterial embolism and thrombosis of abdominal artery
453.0	Budd-Chiari syndrome
453.1	Thrombophlebitis migrans
453.2	Other venous embolism and thrombosis of vena cava
453.3	Other venous embolism and thrombosis of renal vein

536.1	Acute dilatation of stomach
536.2	Persistent vomiting
537.0	Acquired hypertrophic pyloric stenosis
537.3	Other obstruction of duodenum
537.82	Angiodysplasia of stomach and duodenum without mention of hemorrhage
537.83	Angiodysplasia of stomach and duodenum with hemorrhage
552.3	Diaphragmatic hernia with obstruction
553.3	Diaphragmatic hernia without mention of obstruction or gangrene
555.0	Regional enteritis, small intestine
555.1	Regional enteritis, large intestine
555.2	Regional enteritis, small intestine with large intestine
556.4	Pseudopolyposis of colon
557.0	Acute vascular insufficiency of intestine
560.0	Intussusception
560.2	Volvulus
567.22	Peritoneal abscess
567.82	Sclerosing mesenteritis
570	Acute and subacute necrosis of liver
577.0	Acute pancreatitis
577.2	Cyst and pseudocyst of pancreas
590.2	Renal and perinephric abscess
590.3	Pyeloureteritis cystica
590.81	Pyelitis or pyelonephritis in diseases classified elsewhere
591	Hydronephrosis
593.1	Hypertrophy of kidney
593.2	Cyst of kidney, acquired
593.3	Stricture or kinking of ureter
593.5	Hydroureter
599.70-.72	Hematuria
751.0	Meckel's diverticulum
751.1	Atresia and stenosis of small intestine
751.2	Atresia and stenosis of large intestine, rectum, and anal canal
751.3	Hirschsprung's disease and other congenital functional disorders of colon
751.61	Biliary atresia
751.62	Congenital cystic disease of liver
753.0	Renal agenesis and dysgenesis
753.11	Congenital single renal cyst
753.13	Polycystic kidney, autosomal dominant
753.14	Polycystic kidney, autosomal recessive
753.15	Renal dysplasia
753.16	Medullary cystic kidney
753.17	Medullary sponge kidney
753.21	Congenital obstruction of ureteropelvic junction
759.0	Anomalies of spleen
759.1	Anomalies of adrenal gland
759.3	Situs inversus
759.4	Conjoined twins
785.59	Other shock without mention of trauma
789.1	Hepatomegaly
789.2	Splenomegaly
789.31	Abdominal or pelvic swelling, mass, or lump, right upper quadrant
789.32	Abdominal or pelvic swelling, mass, or lump, left upper quadrant
789.33	Abdominal or pelvic swelling, mass, or lump, right lower quadrant
789.34	Abdominal or pelvic swelling, mass, or lump, left lower quadrant

789.41	Abdominal rigidity, right upper quadrant
789.42	Abdominal rigidity, left upper quadrant
789.43	Abdominal rigidity, right lower quadrant
789.44	Abdominal rigidity, left lower quadrant
789.61	Abdominal tenderness, right upper quadrant
789.62	Abdominal tenderness, left upper quadrant
789.63	Abdominal tenderness, right lower quadrant
789.64	Abdominal tenderness, left lower quadrant
863.0	Injury to stomach, without mention of open wound into cavity
863.1	Injury to stomach, with open wound into cavity
863.20	Injury to small intestine, without mention of open wound into cavity, unspecified site
863.21	Injury to duodenum, without mention of open wound into cavity
863.30	Injury to small intestine, with open wound into cavity, unspecified site
863.31	Injury to duodenum, with open wound into cavity
863.41	Injury to ascending (right) colon, without mention of open wound into cavity
863.42	Injury to transverse colon, without mention of open wound into cavity
863.43	Injury to descending (left) colon, without mention of open wound into cavity
863.51	Injury to ascending (right) colon, with open wound into cavity
863.52	Injury to transverse colon, with open wound into cavity
863.53	Injury to descending (left) colon, with open wound into cavity
863.81	Injury to pancreas, head, without mention of open wound into cavity
863.82	Injury to pancreas, body, without mention of open wound into cavity
863.83	Injury to pancreas, tail, without mention of open wound into cavity
863.85	Injury to appendix, without mention of open wound into cavity
863.91	Injury to pancreas, head, with open wound into cavity
863.92	Injury to pancreas, body, with open wound into cavity
863.93	Injury to pancreas, tail, with open wound into cavity
863.95	Injury to appendix, with open wound into cavity
864.01	Injury to liver, hematoma and contusion, without mention of open wound into cavity
864.02	Injury to liver, laceration, minor, without mention of open wound into cavity
864.03	Injury to liver, laceration, moderate, without mention of open wound into cavity
864.04	Injury to liver, laceration, major, without mention of open wound into cavity
864.11	Injury to liver, hematoma and contusion, with open wound into cavity
864.12	Injury to liver, laceration, minor, with open wound into cavity
864.13	Injury to liver, laceration, moderate, with open wound into cavity
864.14	Injury to liver, laceration, major, with open wound into cavity
865.01	Injury to spleen, hematoma, without rupture of capsule, without mention of open wound into cavity
865.02	Injury to spleen, capsular tears, without major disruption of parenchyma, without mention of open wound into cavity
865.03	Injury to spleen, laceration extending into parenchyma, without mention of open wound into cavity
865.04	Injury to spleen, massive parenchymal disruption, without mention of open wound into cavity
865.11	Injury to spleen, hematoma, without rupture of capsule, with open wound into cavity
865.12	Injury to spleen, capsular tears, without major disruption of parenchyma, with open wound into cavity
865.13	Injury to spleen, laceration extending into parenchyma, with open wound into cavity
865.14	Injury to spleen, massive parenchymal disruption, with open wound into cavity
866.01	Injury to kidney, hematoma, without rupture of capsule, without mention of open wound into cavity
866.02	Injury to kidney laceration, without mention of open wound into cavity
866.03	Injury to kidney, complete disruption of kidney parenchyma, without mention of open wound into cavity
866.10	Injury to kidney, with open wound into cavity, unspecified injury

866.11	Injury to kidney, hematoma, without rupture of capsule, with open wound into cavity
866.12	Injury to kidney, laceration, with open wound into cavity
866.13	Injury to kidney, complete disruption of kidney parenchyma, with open wound into cavity
868.01	Injury to other intra-abdominal organs, adrenal gland, without mention of open wound into cavity
868.02	Injury to other intra-abdominal organs, bile duct and gallbladder, without mention of open wound into cavity
868.04	Injury to other intra-abdominal organs, retroperitoneum, without mention of open wound into cavity
868.11	Injury to other intra-abdominal organs, adrenal gland, with open wound into cavity
868.12	Injury to other intra-abdominal organs, bile duct and gallbladder, with open wound into cavity
868.14	Injury to other intra-abdominal organs, retroperitoneum, with open wound into cavity
902.10	Injury to inferior vena cava, unspecified
902.11	Injury to hepatic veins
902.21	Injury to gastric artery
902.22	Injury to hepatic artery
902.23	Injury to splenic artery
902.25	Injury to superior mesenteric artery (trunk)
902.26	Injury to primary branches of superior mesenteric artery
902.27	Injury to inferior mesenteric artery
902.31	Injury to superior mesenteric vein and primary subdivisions
902.32	Injury to inferior mesenteric vein
902.33	Injury to portal vein
902.34	Injury to splenic vein
902.41	Injury to renal artery
902.42	Injury to renal vein
902.51	Injury to hypogastric artery
902.52	Injury to hypogastric vein
902.53	Injury to iliac artery
902.54	Injury to iliac vein
902.55	Injury to uterine artery
902.56	Injury to uterine vein
902.81	Injury to ovarian artery
902.82	Injury to ovarian vein
935.2	Foreign body in stomach
936	Foreign body in intestine and colon
958.0	Certain early complications of trauma, air embolism
958.1	Certain early complications of trauma, fat embolism
958.2	Certain early complications of trauma, secondary and recurrent hemorrhage
958.3	Certain early complications of trauma, post traumatic wound infection, not elsewhere classified
958.4	Certain early complications of trauma, traumatic shock
958.5	Traumatic anuria
996.1	Other mechanical complication of cardiac device, unspecified device, implant and graft
996.2	Mechanical complication of nervous system device, unspecified device, implant and graft
996.62	Infection and inflammatory reaction due to other vascular device, implant, and graft
996.63	due to nervous system device, implant and graft
996.71	Other complications due to heart valve prosthesis
996.74	Other complications due to other cardiac device, implant and graft
996.81	Complications of transplanted organ, kidney
996.82	Complications of transplanted organ, liver
996.86	Complications of transplanted organ, pancreas
996.87	Complications of transplanted organ, intestine
997.4	Digestive system complications

Contraindications:

1. Patients with cardiac pacemakers or metallic clips on vascular aneurysms or other metallic implants.
2. Patients requiring life support systems and monitoring devices which employ Ferro magnetic materials (metal that could be magnetized).
3. Patients who have claustrophobia.
4. Patients who have ferrous ocular foreign bodies, imbedded shrapnel fragments or cochlear implants.

Coding Guidelines:

Diagnosis codes other than those listed above will require review for medical necessity and prior authorization.

Documentation Requirements

The ordering physician is responsible for certifying the medical necessity of the procedure. The physician must have documentation in the medical record to support the referral.

Documentation in the progress notes must reflect medical necessity for the MRI.

Medical records can be used in any post-payment review and must include the information necessary to substantiate the need for the procedure.

In order for an MRI to be covered for a diagnosis of headache, the headache must have features suggestive of increased intracranial pressure, such as headaches which awaken patients from sleep, are made worse by coughing or straining, or headaches which are becoming progressively more severe, or headaches which are associated with other neurological findings such as nuchal rigidity or focal neurologic findings on examination. These findings must be documented in the patient's medical record.

Reference:

CMS Local Coverage Determination (LCD) L9966- effective date 11/30/2005, L:1639 – effective date 2/28/2006, L4780 – 3/31/2005.

Revised 1/1/2008: 155.2 added, 255.4 deleted

Revised 11/17/2008: 203.02, 599.70-.72 added (OHCA/QAQI)