INTRODUCTION:

Magnetic resonance spectroscopy (MRS) is a noninvasive imaging technique that determines the concentration of brain metabolites such as N-acetylaspartate, choline, creatine and lactate within the body tissue examined. Radiofrequency waves are translated into biochemical composition of the scanned tissue; the resulting metabolic profile is useful in identifying brain tumors, e.g., differentiating post treatment abnormalities from recurring brain tumor.

INDICATIONS FOR BRAIN MRS:

- To differentiate between post treatment tumor recurrence from post treatment scar/abnormalities.
- When there is evidence or suspicion of neonatal hypoxic ischemic encephalopathy.

ADDITIONAL INFORMATION RELATED TO BRAIN MRS:

Request for a follow-up study - A follow-up study may be needed to help evaluate a patient’s progress after treatment, procedure, intervention or surgery. Documentation requires a medical reason that clearly indicates why additional imaging is needed for the type and area(s) requested.
REFERENCES


Reviewed/Approved by Michael Pentecost, MD, Associate Chief Medical Officer