INTERQUAL® CARE PLANNING CRITERIA
BIBLIOGRAPHY: Imaging- Spine 2017
McKesson Clinical Evidence Classification

References cited in the clinical content are classified according to the type of evidence presented. The class ratings, I through V, are intended to provide a classification of the evidence but are not necessarily hierarchical. Classifications appear in parentheses at the end of each reference. References followed by an (NC) are not classified; examples include pre-published research or information from government, manufacturer, laboratory, or patient education websites.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Type of Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I</td>
<td>Meta-analysis, technology assessment, or systematic review</td>
</tr>
<tr>
<td>Class II</td>
<td>Randomized controlled trial</td>
</tr>
<tr>
<td>Class III</td>
<td>Observational or epidemiologic study</td>
</tr>
<tr>
<td>Class IV</td>
<td>Evidence-based guideline</td>
</tr>
<tr>
<td>Class V</td>
<td>Expert opinion, panel consensus, literature review, text or reference book,</td>
</tr>
<tr>
<td></td>
<td>descriptive study, case report, or case series</td>
</tr>
</tbody>
</table>

Class I
Class I sources synthesize the results of multiple studies. When quantitative synthesis is possible, meta-analyses can provide a more accurate estimate of the effect or association size than individual smaller studies can. A Class I study that finds insufficient evidence to support or refute an intervention (due to a lack of appropriate primary research) is inconclusive. A potential weakness of Class I studies is that they may only assess published research, potentially leaving their findings vulnerable to publication bias.

Class II
A randomized controlled trial (RCT) is an experimental study design in which subjects are randomly assigned to an intervention or a control group. An RCT is the gold standard for testing cause and effect relationships. Intention-to-treat analysis should be performed to account for missing data points.

Class III
Observational or epidemiologic studies can suggest an association between events or findings. These associations cannot be used to establish causality. Cross-sectional, cohort, and case-control studies are all used to identify possible risk factors. Cross-sectional studies are also used to determine the prevalence of a condition. Cohort studies are used to study incidence, the natural history of a condition, prognosis after a specific exposure, and associated harms. Nonrandomized controlled trials are sometimes used when randomization is impossible or unethical.

Class IV
Evidence-based guidelines are systematically developed recommendations for clinical practice. Evidence-based guidelines identify the methodology used to gather the evidence on which the recommendations are based. Usually, a grading system for both the quality of the evidence and the strength of the recommendations is provided. Guidelines that are evidence-based may also contain consensus recommendations in areas where evidence is lacking, but these recommendations are clearly identified and appropriately graded.

Class V
Class V references may be the best information in the absence of other evidence. Expert opinion, panel consensus, literature reviews, and descriptive studies (case reports or case series) are subject to significant bias. A case series with comparison to historical controls can be plagued with missing data, and data extraction inconsistencies are common. The use of historical controls does not address how the diagnosis of disease or its treatment has evolved over time with newer technologies or medication. Text book information may be out of date by the time the book is published.
Comparative Effectiveness Research (CER)

Citations are designated with the CER label as part of the evidence classification if the article cited is one of the following:
1. A clinical trial or other clinical study that directly compares two or more health care interventions for the same clinical scenario.
2. A systematic review that compares two or more health care interventions by synthesizing the research from previous clinical studies.

Bibliography

ACR-SPR-SSR Practice Parameter for the Performance and Interpretation of Magnetic Resonance Imaging (MRI) of Bone, Joint, and Soft Tissue Infections in the Extremities 2016. (V)
American College of Radiology et al., ACR-SPR Practice Parameter for the Performance of Skeletal Scintigraphy (Bone Scan). 2013. (V)
Carragee et al. A gold standard evaluation of the "discogenic pain" diagnosis as determined by provocative discography. Spine 2006. 31(18):2115-2123. (III)


Fakouri et al. When is the appropriate time for surgical intervention of the herniated lumbar disc in the adolescent? J Clin Neurosci 2009. 16(9):1153-6. (V)


Frymoyer and Wiesel. The adult and pediatric spine, 3rd edn. Philadelphia: Lippincott Williams & Wilkins; 2004; 2 vols. (V)


Hancock et al. Systematic review of tests to identify the disc, SIJ or facet joint as the source of low back pain. Eur Spine J 2007. 16(10):1539-1550. (I)

Harvey et al. Lumbar injuries of the pediatric population. Prim Care 2013. 40(2):289-311. (V)
INTERQUAL® CARE PLANNING CRITERIA Bibliography: Imaging- Spine 2017


Hou et al. Repeated microendoscopic discectomy for recurrent lumbar disk herniation. Clinics (Sao Paulo) 2015. 70(2):120-5. (III)


Moritani et al. Pyogenic and non-pyogenic spinal infections: emphasis on diffusion-weighted imaging for the detection of abscesses and pus collections. Br J Radiol 2014. 87(1041):20140011. (V)


Nakamura et al. Longitudinal Follow-up of a Cohort of Patients with Incidental Abnormal Magnetic Resonance Imaging Findings at Presentation and Their Risk of Developing Multiple Sclerosis. Int J MS Care 2014. 16(3):111-5. (III)


Negrini et al. Recommendations for research studies on treatment of idiopathic scoliosis: Consensus 2014 between SOSORT and SRS non-operative management committee. Scoliosis 2015. 10(8):014-0025. (V)

North American Spine Society (NASS). Diagnosis and Treatment of Lumbar Disc Herniation with Radiculopathy. Burr Ridge (IL); 2012. (IV)


Thakkar et al. Imaging the postoperative spine. Radiologic clinics of North America 2012. 50(4):731-47. (V)