What a Tangled Web We Reap:

The AMA Guides to the Evaluation of Permanent Impairment, Sixth Edition

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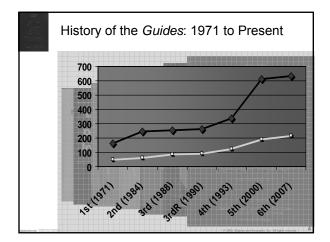
Disclosure: Dr. Brigham is independent of the American Medical Association (AMA). This presentation is neither endorsed nor sponsored by the American Medical Association; and opinion and the content of the training presentations present the views of the presenter and not necessarily those of the AMA, particularly on matters of medical policy.

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Topics

- Overview of the Sixth Edition Brief with Examples
- Myths Sixth Edition and Impairment Rating
- Insights Sixth Edition and Impairment Rating

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Overview of Sixth Edition

Sixth Edition Responded to Prior Criticisms and Problems

- Failure to provide a comprehensive, valid, reliable, unbiased, and evidence-based rating system.
- Impairment ratings did not adequately or accurately reflect loss of function.
- Numerical ratings were more the representation of "legal fiction than medical reality."
- High error rate (majority erroneously elevated)

Sixth Edition Recommended Changes

- Standardize assessment of Activities of Daily Living (ADL) limitations associated with physical impairments.
- Apply functional assessment tools to validate impairment rating scales.
- Include measures of functional loss in the impairment rating.
- Improve overall intrarater and interrater reliability and internal consistency.

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Impairment Rating Considerations

- 1. What is the problem?
- 2. What difficulties are reported?
- 3. What are the exam findings?
- 4. What are the results of the clinical studies?







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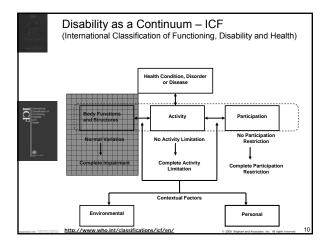
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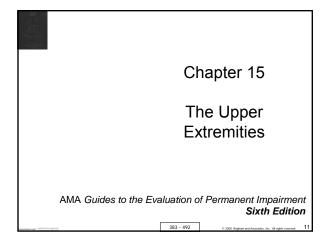
Sixth Edition Five Axioms

- Adopt methodology of International Classification of Functioning, Disability and Health (ICF)
- 2. Become more diagnosis-based, with diagnoses being evidence based
- 3. Give priority to simplicity and ease
- 4. Stress conceptual and methodological congruity
- 5. Provide rating percentages that consider clinical and functional history, examination and clinical studies

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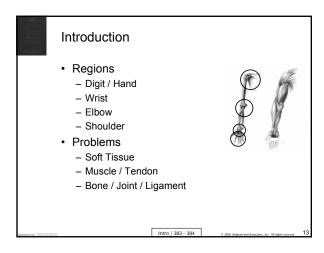
Sixth Edition - Chapter 15

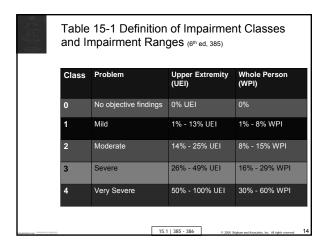
- 15.1 Principles of Assessment
- 15.2 Diagnosis-Based Impairment
- 15.3 Adjustment Grid and Grade Modifiers: Non Key Factors
- 15.4 Peripheral Nerve Impairment
- 15.5 Complex Regional Pain Syndrome Impairment
- 15.6 Amputation Impairment
- 15.7 Range of Motion Impairment
- 15.8 Summary
- 15.9 Appendix

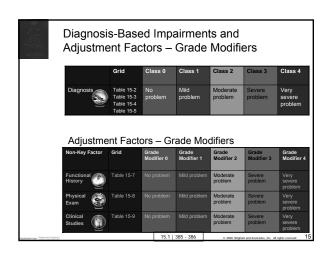
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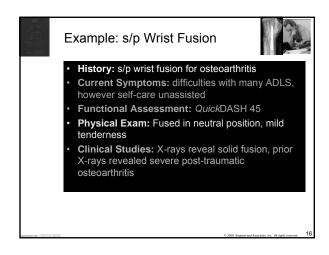
Appendix 15-A Functional Assessment Inventories
 Appendix 15-B Electrodiagnostic Evaluation of Entrapment Syndromes

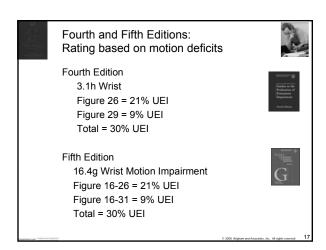
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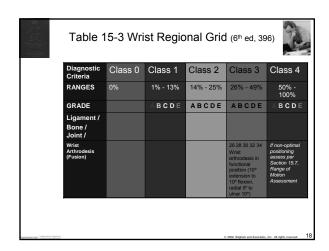


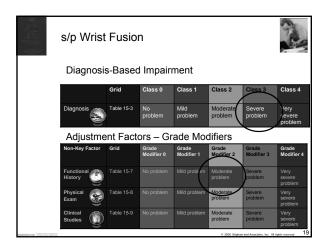


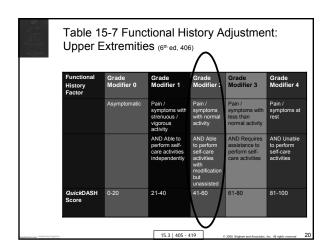


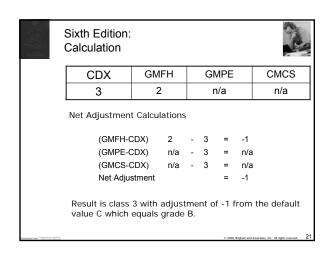


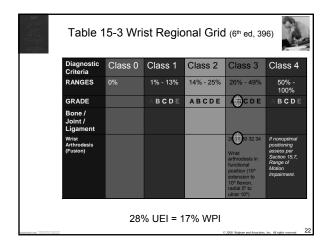




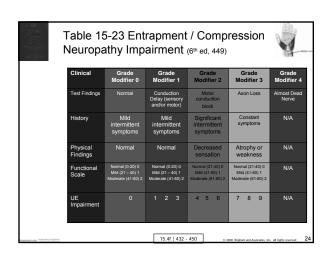








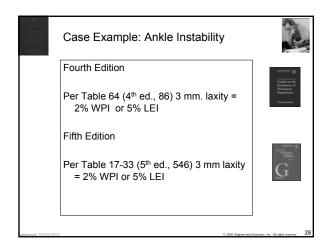
15.5	e Up	per	Extremity DBI E	Exampl	es
Example	Region	Class	Diagnosis	Sixth Edition Impairment (WPI %)	Fifth Editio Impairment (WPI %)
15-1	Digit	0	Stenosing tenosynovitis, resolved with surgery	0%	0%
15-2	Digit	1	Fracture metacarpal	1%	0%
15-3	Digit	1	Stenosing tenosynovitis, symptomatic	1%	2%
15-4	Digit	2	Distal interphalangeal joint dislocation, reduced	2%	3%
15-5	Wrist	0	Contusion	0%	0%
15-6	Wrist	1	Ganglion cyst	2%	0%
15-7	Wrist	3	s/p Wrist Fusion	17%	18%
15-8	Elbow	0	Lateral epicondylitis	0%	0%
15-9	Elbow	1	Distal biceps tendon rupture	4%	6%
15-10	Shoulder	1	Nonspecific shoulder pain	1%	0%
15-11	Shoulder	1	Status post rotator cuff repair	4%	3%
15-12	Shoulder	2	Total shoulder arthroplasty	13%	14%
Average				4%	4%

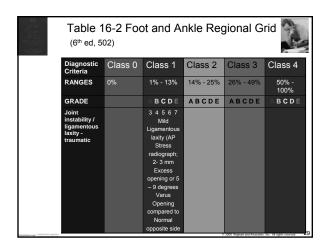


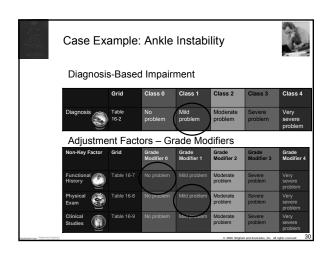
Chapter 16 The Lower Extremities AMA Guides to the Evaluation of Permanent Impairment Sixth Edition 383-492

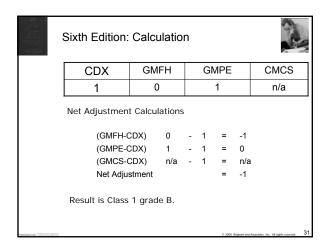
Introduction • Regions - Foot / ankle - Knee - Hip • Problems - Soft Tissue - Muscle / Tendon - Bone / Joint / Ligament

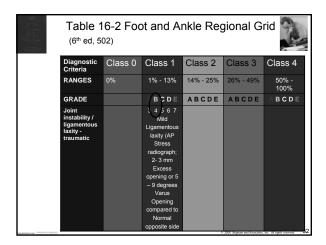
History: Twisted his left ankle and had recurrent problems with it feeling "weak". His physician diagnosed a tear of the anterior talofibular ligament and recommended conservative therapy. He reported difficulties walking on uneven surfaces being cautious, however his gait was otherwise normal. He is evaluated I year later. Physical Exam: Gait is normal. He reports mild tenderness over the anterior talofibular ligament, and there appears to be mild laxity. Motion and muscle evaluation is normal. No atrophy. Clinical Studies: Stress X rays reveal 3-mm excess opening on the left compared with the right. Diagnosis: Ligamentous instability of the anterior talofibular ligament mild.

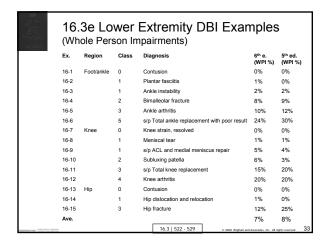


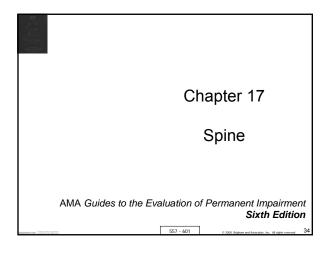












Sixth Edition - Chapter 17

- 17.1 Principles of Assessment
- 17.2 Diagnosis-Based Impairment
- 17.3 Adjustment Grid and Grade Modifiers: Non-Key Factors
- 17.4 Pelvic Impairment
- 17.5 Summary
- 17.6 Appendix

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Sixth Edition – Chapter 17 Three Spine Regions And Pelvis Cervical spine Thoracic spine Lumbar spine Pelvis

Introduction

- DBI expansion of Diagnosis-Related Estimates (Injury) Method of 4th and 5th ed.
- Range of Motion no longer used, either as examination finding or determinate (not found to be reliable)
- Unreliable findings (i.e. spasm and guarding) no longer used
- · Surgery no longer increases impairment

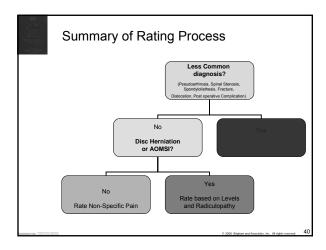
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Categories of Spine Impairment

- · Non-specific spinal pain
- Intervertebral disk and motion segment pathology (single and multiple levels)
- · Cervical and lumbar stenosis
- Spine fractures and/or dislocations
- · Pelvic fractures and/or dislocations

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Table 17-1 Definition of Impairment Classes and Impairment Ranges (6th ed, 559) 0% 1% - 8% 1% - 6% 1% - 9% 1% - 3% Mild 7% - 11% 10% - 14% | 4% - 6% 9% - 14% Moderate 15% - 24% 12% - 17% 15% - 24% 7% - 11% 17% - 22% 25% - 33% 12% - 17% Very Severe 17.1 | 559



Example: Lumbar Diskectomy (Single level) with Residual Radiculopathy



- Current Symptoms: Pain; symptoms with normal activity
- Functional Assessment: PDQ 80
- Physical Exam: SLR Positive at 40°
- · Clinical Studies: Confirms Diagnosis

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Example: Lumbar Diskectomy with Residual Radiculopathy



- Table 17-4 Lumbar Spine Regional Grid
- Category: Motion Segment Lesions / Intervertebral disk herniation and/or AOMSI
- · Class 2
- Default Impairment: 12% WPI

10 11 12 13 14 Intervertebral disk herniation or AOMSI at a

herniation or AOMSI at a single level with medically documented findings; with or without surgery

and

with documented residual radiculopathy at the clinically appropriate level present at the time of examination (see Physical Examination adjustment grid in Table 17-7 to grade radiculopathy)

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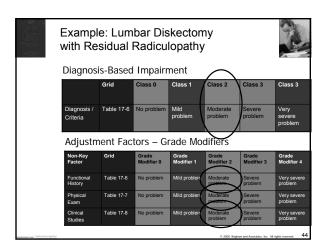
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Example: Lumbar Diskectomy with Residual Radiculopathy



- · Functional Assessment
 - PDQ 80
 - Grade Modifier 2
- Physical Exam
 - + SLR
- Grade Modifier 2
- · Clinical Studies
 - Imaging studies confirm diagnosis
 - Grade Modifier 2

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Example: Lumbar Diskectomy with Residual Radiculopathy CDX GMFH **GMPE** CMCS 2 2 Net Adjustment Calculations (GMFH-CDX) (GMPE-CDX) 2 2 0 (GMCS-CDX) 0 Net Adjustment 0 Result is class 2 with adjustment of 0 from the default value C which equals grade C = 12% WPI

Example: Lumbar Diskectomy with Residual Radiculopathy

- Table 17-4 Lumbar Spine Regional Grid
- Category: Motion Segment Lesions / Intervertebral disk herniation and/or AOMSI
- · Class 2
- Default Impairment: 12% WPI

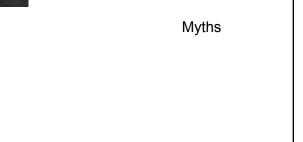
	\wedge	
10 11	12	3 14
Intervertebre herniation of single level documented or without s	r AO with d find	MSI at a medically ings; with
	and	

with documented residual radiculopathy at the clinically appropriate level present at the time of examination (see Physical Examination adjustment grid in Table 17-7 to grade radiculopathy)

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17.3g Spine DBI Examples (Whole Person Impairments)

Example	Region	Class	Diagnosis	6 th ed. (WPI %)	5th ed. (WPI %)
17-1	Cervical	0	Sprain / strain, resolved	0%	0%
17-2	Cervical	1	Disk herniation, resolved radiculopathy	6%	7%
17-3	Cervical	1	Disk herniation, single level fusion	7%	25%
17-4	Cervical	2	Disk herniation with radiculopathy	12%	18%
17-5	Cervical	3	Disk herniations with radiculopathy	12%	23%
17-6	Cervical	4	Vertebral fractures	29%	23 %
17-7	Thoracic	0	Sprain / strain, resolved	0%	0%
17-8	Thoracic	1	Disk herniation	4%	5%
17-9	Thoracic	3	Vertebral fractures at multiple levels	12%	10%
17-10	Lumbar	0	Sprain / strain, resolved	0%	0%
17-11	Lumbar	1	Disk herniation, resolved	0%	0%
17-12	Lumbar	1	Non-specific pain	1%	5%
17-13	Lumbar	2	Disk herniation with radiculopathy	12%	10%
17-14	Lumbar	2	Disk herniation with radiculopathy	13%	25%
17-15	Lumbar	3	Disk herniations with radiculopathy	19%	18%
Average				8%	11%



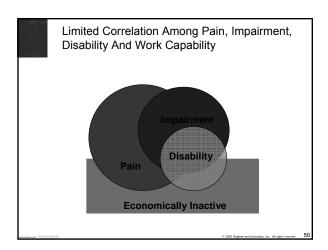
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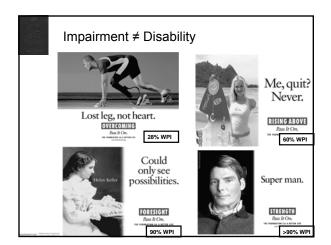
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MYTH - Impairment ratings are equivalent to disability ratings

- · Impairment not equal to disability
- impairment as "a significant deviation, loss, or loss of use of any body structure or body function in an individual with a health condition, disorder, or disease." (6th ed., 5). Impairment is a medical determination.
- Disability is much more of contextual concept. It is defined by the Guides as "activity limitations and/or participation restrictions in an individual with a health condition, disorder, or disease" (6th ed., 5).

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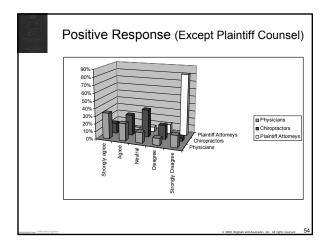


	Biopsychosocial Model of Human Illness and Disability					
Social	Culture Social Interactions The sick role	ICF (WHO 2001) Environmental factors Participation restrictions				
Psychological	Illness behavior Beliefs, coping strategies Emotions, distress	Activity limitations Personal factors				
Biological	Neurophysiology Physiological dysfunction Tissue damage	Impairments Body structures and functions				

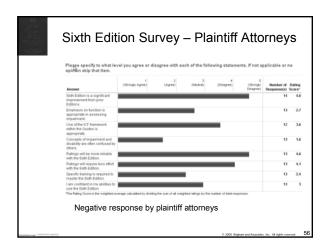
MYTH - Sixth Edition is not an improvement

- Positive response by physicians, albeit negative response primarily by trial attorneys
- Not perfect, however addresses many criticisms of prior Editions

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opinion skip ti		ei you agree or o	isagree with e	ach of the folio	owing statemen	nts. If not a	pplicable or i	10
Answer		(Strongly Agree)	(Agree)	(Neutral)	(Disagree)	(Strongly Disagree)	Number of Response(s)	
Such Edition is a improvement from Editions.							25	2.
Emphasis on fun appropriate in ass impairment.							26	1.6
Use of the ICF fra within the Ouides appropriate.							25	1.0
Concepts of impa disability are ofter others.							26	1.
Ratings will be m with the fixth Frist							25	2.
Ratings will requi							25	2.0
Specific training in	s required to		_				26	1.0
I am confident in a	my abilities to						25	1/



MYTH – Most impairment ra prior Editions are accurate	atings by
Review of 2798 cases nat	tionally
Error Rate: Average Original Rating: Average Revised Rating:	78% 20.5% WPI 7.4% WPI

Impairment Ratings – Comparison Original vs. Expert (corrected on review)

MYTH - Impairment ratings values should not change between Editions

- Impairment ratings will change between editions for several medical reasons
- With advancements in medical and surgical interventions has come improved outcomes and, therefore, decreasing impairment in some situations.
- In prior Editions additional impairment given for surgery, however role of surgery is to improve impairment.
- Over time certain approaches are found not to be valid and/or reliable

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MYTH - Impairment rating values are significantly lower in the Sixth Edition

- It is premature to determine the impact of the changes with the Sixth Edition until there is adequate experience with it, until impairment rating values associated with specific diagnoses may be compared, and until studies are performed
- Although some impairment values have been corrected resulting in lower impairments, the Sixth Edition also expands the number of ratable conditions (such as soft tissue and muscle / tendon injuries, and non-specific spinal pain).

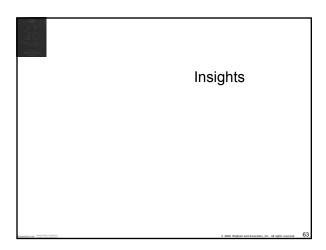
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MYTH - Impairment rating values are significantly lower in the Sixth Edition

- Re-rating of case examples provided in the Sixth Edition reveals minimal difference except for surgical spine
- Need to consider difference between what is observed and what is correct – less profound differences among correct ratings

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Insights

- The Sixth Edition is still far from perfect with respect to defining impairment or the complexities of human function, however it represents significant advancement.
- · The Sixth Edition will
 - simplify the rating process,
 - improve interrater reliability,and
 - provide a solid basis for future editions of the Guides.
- Most physicians and claims professionals will find the Sixth Edition a significant improvement; however other special interest groups will disagree.

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Insights

- · Disputes will occur and will relate primarily to:
 - Failure to understand the significant changes with the Sixth Edition (and associated Corrections and Clarifications)
 - Rating multiple diagnoses (vs. rating for most significant diagnosis)
 - Manipulating diagnosis to achieve different class placement (most significant determinant)
 - Manipulating adjustment factors (defining severity)
 - Mental and behavioral assessments
- Physician effort will initially be more, and then decrease
- Most impairment ratings will be performed by physicians who focus on these assessments

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Insights

- Systems must recognize the difference between impairment and disability and develop more reasonable approaches to translate impairment into financial awards.
- Impairment assessment is a medical determination not a legal determination; impairment ratings are based on approaches developed primarily by physicians through a consensus process.

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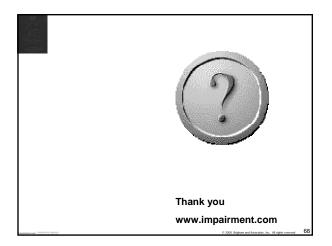
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Recommendations

- Learn Sixth Edition (and associated Corrections and Clarifications)
- · Select qualified examiners
- Critically review all impairment ratings to assure accuracy
- Recognize impairment and disability are not synonymous
- Focus on goal of full restoration of function, without impairment and disability.

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