

Designated Doctor
Case-Based Webinar
Module 5

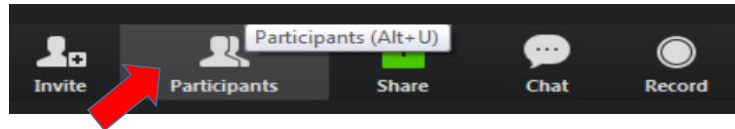
Non – MSK MMI & IR

Disclaimer

The material presented in this workshop is made available by the Texas Department of Insurance - Division of Workers' Compensation (TDI-DWC) for educational purposes only. The material is not intended to represent the only method or procedure appropriate for the medical situations discussed. Rather, it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations.

Housekeeping

At the bottom of your screen, click to turn on the participant list:



Ensure your name (not phone # or initials) is shown on the Participant List for CME and attendance purposes. If not, do the following to rename:

- Hover over your current sign in and two boxes appear

- Click on the Rename box

- Type in your first and last name

Make sure your name shows correctly in the Participant list.

Asking questions

Please mute your phone/VOIP audio connection

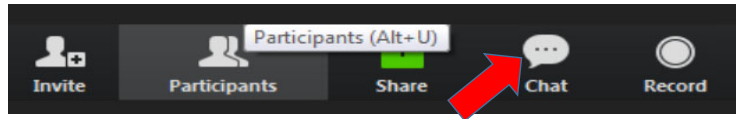
All attendees will be muted during the presentation and submit questions via Chat

Attendees may be unmuted at the request of the monitor or instructor for clarification or further discussion

Make sure your name shows correctly in the Participant list.

Asking questions

You will find the Chat feature to the right of the participants list.



As the instructor goes through the course they will ask for questions via chat at the end of a case, or after a concept has been explained.

You may type your questions into Chat. The Chat monitor may answer your question in Chat, or have the instructor answer the question verbally.

Non-Musculoskeletal MMI/Impairment Rating

Non-Musculoskeletal MMI/IR

Areas Covered:

- Chapter 5 – Respiratory system
- Chapter 8 – Visual system
- Chapter 9 – ENT & related structures (hearing)
- Chapter 10 – Digestive System (hernia)
- Chapter 13 – Skin (burn)

HOWEVER, you must understand the text and learn to use the tables in ALL the Non-MSK Chapters.

Learn the use of the tables in the Non-MSK Chapters. Many have ranges of impairment, with criteria that often rely upon Activities of Daily Living (ADLs). There is an ADL Table on page 317, but you can supplement with other ADL info from your own version, or add in Quick DASH, etc.

Remember you are required to order any additional testing or referrals that are necessary.

BE SURE to order all of the testing necessary to be able to rate the condition per the AMA Guides!

Make it clear to the referral source exactly what you need.

More on this in the next few slides...

Non-Musculoskeletal Chapters How to Read the Tables

Tables listing classes of impairment in the non-MSK chapters list criteria for each class in several rows on the table.

- The criteria in the **first row** of a table should ALWAYS be present.
- When the table indicates “**AND**” between rows of criteria, BOTH of those two row’s criteria must also be present
- When “**OR**” is between rows, the criteria for one or the other of those rows must be present

Activities of Daily Living

Glossary, page 317

Table. Activities of Daily Living, with Examples.

| Activity | Example |
|------------------------------------|--|
| Self-care, personal hygiene | Bathing, grooming, dressing, eating, eliminating |
| Communication | Hearing, speaking, reading, writing, using keyboard |
| Physical activity | <i>Intrinsic:</i> Standing, sitting, reclining, walking, stooping, squatting, kneeling, reaching, bending, twisting, leaning <i>Functional:</i> Carrying, lifting, pushing, pulling, climbing, exercising |
| Sensory function | Hearing, seeing, tactile feeling, tasting, smelling |
| Hand functions | Grasping, holding, pinching, percussive movements, sensory discrimination |
| Travel | Riding, driving, traveling by airplane, train, or car |
| Sexual function | Participating in desired sexual activity |
| Sleep | Having a restful sleep pattern |
| Social and recreational activities | Participating in individual or group activities, sports, hobbies |

Non-Musculoskeletal MMI/IR

BE SURE to order any testing necessary to be able to rate the condition per the AMA Guides!

- **Why Needed**
- **What Findings were**
- **How did it affect decision making**

ALSO....

BE SURE you, or your scheduling company, is NOT ordering additional testing that is not necessary!

BE SURE to order all of the testing necessary to be able to rate the condition per the AMA Guides!

Make it clear to the referral source exactly what you need.

It is very important to do NECESSARY additional testing, and to not develop a habit of ordering additional testing when it is not necessary.

Additional Testing and Referrals

Refer For Specialty Evaluation if Needed

The designated doctor shall perform additional testing when necessary to resolve the issue in question. The designated doctor shall also refer an injured employee to other health care providers when the referral is necessary to resolve the issue in question and the designated doctor is not qualified to fully resolve the issue in question. Any additional testing or referral required for the evaluation is not subject to preauthorization requirements nor shall those services be denied retrospectively based on medical necessity, extent of injury, or compensability...

28 TAC § 127.10 (c)

The rule is clear. We are more likely to order testing or referrals for Non-MSK than for MSK.

There will be conditions where it is absolutely necessary to order testing to validate the condition. This will then assist in answering MMI AND IR.

There will be times where testing is NOT necessary, If a SUFFICIENT review of pertinent facts / evidence from the records is completed and documented in your report.

Do not let failure to document evidence be a reason to order testing.

Inappropriate testing is frowned upon and could result in complaints and sanctions. How to avoid?

Explain why the testing is needed

Explain the results of the testing. Pertinent positive and negative findings. It is not sufficient to say testing was done, and then give an opinion.

Incorporate test results into medical decision making.

Do NOT rely on the referral provider to determine the IR (unless the referral is also a DD). The other doctor MAY NOT have the ODG or be aware of rules and statutes.

Unless YOU provided, they will not have a complete set of records such as you would.

Additional resource regarding Additional Testing is in Non-MSK 2015 Course on the DWC Website. <http://www.tdi.texas.gov/wc/dd/certtraining.html> UNDER

Extended 2015 Presentations for Self-Study

Non-Musculoskeletal MMI/IR

Let's test your knowledge...

BE SURE to order all of the testing necessary to be able to rate the condition per the AMA Guides!

Make it clear to the referral source exactly what you need.

Non-Musculoskeletal Chapters How to Read the Tables

In using the Tables listing classes of impairment in the non-MSK chapters

- A. Use whatever criteria from the Tables that fit the case.
- B. Don't be concerned when the rows in the Tables indicate AND / OR. Just use whatever fits.
- C. Understand that the criteria in the **first row** of a table should ALWAYS be present.

Correct Answer is C. Understand that the criteria in the **first row** of a table should ALWAYS be present.

Non-Musculoskeletal MMI/IR

For determination of EOI or I, the Designated Doctor should order testing

- A. When they feel like it
- B. When their scheduling company tells them to
- C. When the facts of the case and the evidence-based medicine indicate that specific testing is necessary.

Correct Answer is C: When the facts of the case and the evidence-based medicine indicate that specific testing is necessary; **EITHER for determining EOI or IR..**

Non-Musculoskeletal MMI/IR

When the Designated Doctor orders testing, they should:

- A. Just attach a copy of the report
- B. Include in the report WHY the testing was needed
- C. Include in the report WHAT the findings were
- D. Include in the report HOW the findings affected medical decision making
- E. B – D and attach a copy of the report

BEST PRACTICE:

- B.** Include in the report WHY the testing was needed
 - C. Include in the report WHAT the findings were
 - D Include in the report HOW the findings affected medical decision making
- AND INCLUDE A COPY of the REPORT.

ADDITIONAL INFORMATION to Include:

The identity of the health care provider.

The date the test or referral examination was completed.

Non-Musculoskeletal Chapters

Let's proceed with some cases that illustrate the concepts in the Non-MSK Chapters

Case 1 – Respiratory System (Chapter 5)

- 36-year-old ICU nurse contracted Covid-19 in the course and scope of her employment.
- Healthy non-smoker, normal BMI and no significant PMH such as DM, HTN, other cardiovascular disease
- Admitted to ICU for cardiopulmonary support
- Remained intubated for 6 weeks for ventilatory support and weaned by 8 weeks

Case 1 – Respiratory System (Chapter 5)

- Primary hospital for 10 weeks
- Inpatient rehabilitation unit for 3 weeks
- Out-patient PT / OT for 6 months
- At one year after completion of PT, she has continued with fatigue and shortness of breath, that has been stable

Case 1 – Respiratory System (Chapter 5)

Medical history:

- Negative for ever smoking cigarettes
- Negative 2nd hand smoke exposure
- No H/O Asthma
- Negative for any other significant childhood / adult pulmonary infection or disease.

Occupational History:

- No exposure to asbestos
(or potential for silicosis)

Case 1 – Respiratory System (Chapter 5)

Complaints:

- Continued fatigue that makes it difficult to perform ADLs and work activities
- Gets short of breath easily with minimal exertion

Exam at MMI:

- SOB with moving on and off the exam table.
- Lungs clear to auscultation and percussion

Case 1 – Respiratory System (Chapter 5)

Pulmonary Function Tests (PFTs)

- **Respiratory Impairment - Referred for PFTs**
 - FEV1 was 80TH %
 - FVC was 75TH %
 - FEV1 / FVC was 76th %
 - DCO was 61st %
- ***Functionally, the changes in DCO are most impacted by Covid-19 infections.***

MAKE SURE YOU ARE GETTING A DCO in these cases.

Also understand that if they ARE a smoker, no smoking within 8 hours of testing or can skew DCO results..

Since Covid infections more proportionately affect the DLCO / DCO, this is important that this be obtained.

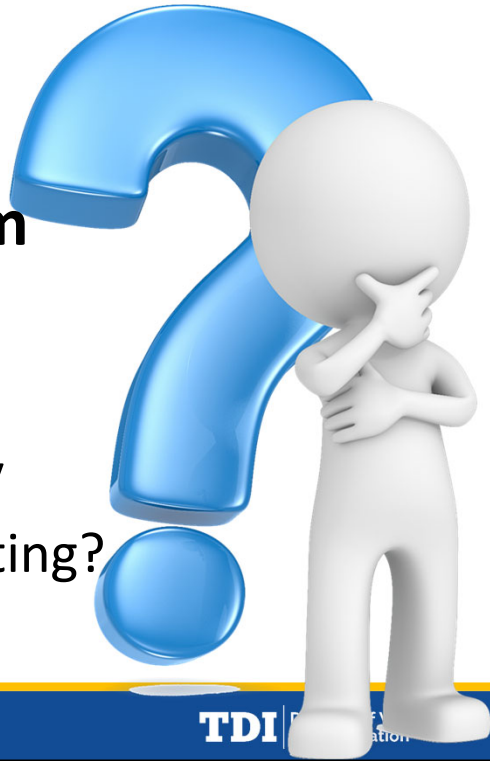
DCO can ALSO be affected with other occupational exposures – silicosis and asbestosis

Be aware other pulmonary disorders that are usual diseases of life will affect the PFTs. Consider a restrictive disease, vs and obstructive disease vs. Those that affect diffusion capacity.

YOU don't have to research this alone! Please refer to the new Educational Module on Pulmonary Disease and Pulmonary Function tests.

Case 1 – Respiratory System (Chapter 5)

On the date of MMI,
what is the respiratory
system impairment rating?



Chapter 5, Table 8, Page 162

Classes of Respiratory Impairments

Table 8. Classes of Respiratory Impairment*

| | Class 1: 0%, no impairment of the whole person | Class 2: 10-25%, mild impairment of the whole person | Class 3: 26-50%, moderate impairment of the whole person | Class 4: 51-100%, severe impairment of the whole person |
|---|--|--|--|--|
| FVC FEV ₁ FEV ₁ /FVC (%) D _{CO} | FVC ≥ 80% of predicted; and FEV ₁ ≥ 80% of predicted; and FEV ₁ /FVC ≥ 70%; and D _{CO} ≥ 70% of predicted. | FVC between 60% and 79% of predicted; or FEV ₁ between 60% and 79% of predicted; or D _{CO} between 60% and 69% of predicted. | FVC between 51% and 59% of predicted; or FEV ₁ between 41% and 59% of predicted; or D _{CO} between 41% and 59% of predicted. | FVC ≤ 50% of predicted; or FEV ₁ ≤ 40% of predicted; or D _{CO} ≤ 40% of predicted. |
| VO ₂ Max | or > 25 mL/(kg·min); or > 7.1 METS | or Between 20 and 25 mL/(kg·min); or 5.7-7.1 METS | or Between 15 and 20 mL/(kg·min); or 4.3-5.7 METS | or < 15 mL/(kg·min); or < 1.05 L/min; or < 4.3 METS |

*FVC = forced vital capacity, FEV₁ = forced expiratory volume in the first second, D_{CO} = diffusing capacity of carbon monoxide. The D_{CO} is primarily of value for persons with restrictive lung disease. In classes 2 and 3, if the FVC, FEV₁, and FEV₁/FVC ratio are normal and the D_{CO} is between 41% and 79%, then an exercise test is required.

VO₂ Max, or measured exercise capacity, is useful in assessing whether a person's complaint of dyspnea (see Table 1) is a result of respiratory or other conditions. A person's cardiac and conditioning status must be considered in performing the test and in interpreting the results.

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Be aware of how to read and use this table.

You may use either the PFT results OR the VO₂ Max. The latter is very difficult to find a lab to perform.

The condition MUST REACH A THRESHOLD of ONE of the PARAMETERS to ACCRUE IR.

Of the PFTS, RATE THE WORST.

If FVC, FEV₁, the FEV₁/FVC ratio and the DCO are in different classes, rate as per the higher class.

Understand that if they ARE a smoker, no smoking within 8 hours of testing or can skew DCO results

Look at FOOTNOTE: If FVC, FEV₁, FEV₁/FVC are normal AND DCO is between 41 % and 79 %, THEN an EXERCISE TEST is required.

This is one of the Non-MSK table that does NOT depend on ADLs

Case 1 – Respiratory System

FEV1 80TH %

= Class 1

FVC 75TH %

= Less Impaired End Class 2

FVC / FEV1 76th %

= Less Impaired End Class 2

DCO 61st %

= More Impaired End Class 2

RATE the DCO >>>

More Impaired End of

10 - 25 % WP



THREE parameters fell within a Class 2. One was just below the threshold for Class 2.

DCO is the most frequently affected parameter with COVID -19.

Case 1 – Respiratory System (Chapter 5)

Pulmonary Function Tests (PFTs)

- To RATE for IR, must be a Class 2.
- Do not rate EACH of the components of the PFTs.
- Changes DCO commonly associated with COVID-19 infections.
- Changes can DCO also be seen in cases of silicosis / asbestosis.

MAKE SURE YOU ARE GETTING A DCO in these cases.

Also understand that if they ARE a smoker, no smoking within 8 hours of testing or can skew DCO results.

If the other PFT parameters are more affected than DCO, consider that there may be other explanations for the changes on PFTs.

Pulmonary conditions are common: Asthma, COPD, , Pulmonary Hypertension, Respiratory affects of obesity (OSA and hypoventilation syndrome).

ASK about smoking and second-hand smoking history. Ask about occupational factors such as silicosis and asbestosis exposure.

Don't just assume that the PFT findings are due to a COVID exposure. Pulmonary complications are more likely when there are significant infection / symptom burdens and especially if there was intubation necessary.

Case 1 – Respiratory System (Chapter 5)

TABLE 5: VO2 MAX is also listed under this table.

- There are issues with using this:
 - ✓ Non-specific to pulmonary disease
 - ✓ Like spirometry component of PFTs, it is totally effort driven.
 - ✓ MUST achieve 85 % age related MAX HR
- If your opinion is that VO2 Max will not be reliable for determining IR in YOUR case, TELL the reader of you report WHY you did not consider this for your assessment

If you do not discuss this, you risk getting a letter of clarification.

Slide 26

LW1

Added this one

Lori Wasserburger, 2025-10-15T01:24:01.946

Case 1 – Respiratory System (Chapter 5)

PLEASE REVIEW THE NEW PULMONARY DISEASE AND PFT MODULE IF YOU HAVE A PULMONARY CASE.

- **INFORMATION PRESENTED:**

- ✓ Obstructive vs Restrictive Pulmonary Disease
- ✓ Representative types / causes & PFT presentations
- ✓ Mimics of occupational pulmonary disease due to other diseases / conditions, lifestyle choices, etc.
- ✓ How to interpret IF a PFT test is valid (flow loops, time volume curves) and OTHER needed info
- ✓ How to request PFT testing

Refer to the new DD Education module, **Lung disease and pulmonary function tests**, on the DDE website at:

<https://www.tdi.Texas.gov/wc/dd/index.html>. It is in the Training section list.

Questions about Non-MSK MMI/IR Case 1?



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Some ALJs may remand PFTS back if insufficient data.

It can be difficult to get "exercises testing" for VO2 Max unless in major metropolitan area. Do your best to get ALL – but if you can't get VO2 max, better to explain than hope you won't get a LOC

Case 1 – Covid –19 infections

This case-based series module does not include a deep dive into Covid and various post-Covid Diagnoses.

Try reviewing the DD Certification Course Non-MSK presentation if you'd like additional information.

Let's take a deeper dive into Covid respiratory impairment

Case 1 – Covid –19 infections

It would be very helpful to obtain, and understand the contents of the following article:

Joseph Hirsch, PhD, PsyD; Steven Mandel, MD; Les Kertay, PhD; James B. Talmage, MD; Greg Vanichkachorn, MD; Kurt Hegmann, MD; James Underhill, PhD; John Meyers, PhD; Christopher R. Brigham, MD. **Long Covid-19 Neurological And Psychological Claims: Assessment Guidelines.**

[AMA Guides Newsletter \(2022\) 27 \(3\): 1–27.1 doi.org/10.1001/amaguidesnewsletters.2022.MayJune](#)

DWC cannot republish this article, but we recommend it as a resource.

Case 1 – Covid –19 infections

Abstract AMA Guides May June 2022

- Post–severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease 2019 [COVID-19]) conditions are referred to by a wide range of names, including long COVID, post-acute COVID-19, long-term effects of COVID, post-acute COVID syndrome, chronic COVID, long-haul COVID, late sequelae, and others, as well as the research term, post-acute sequelae of SARS-CoV-2 infection (PASC).
- Symptoms may include *"difficulty thinking or concentrating, fatigue, depression, anxiety, and other complaints"*.
- **The results of studies are clouded by self-reports, lack of objective cognitive data, misattribution, and ill-defined psychological issues.**

Do these symptoms sound familiar. Post Concussion Syndrome or other mental and behavioral diagnoses.

Many of them as well as others attributed to Covid-19 infection, are often vague, symptom based and often non-verifiable.

Use the same forensic scrutiny that you would for CRPS, post concussion syndrome or PTSD.

Case 1 – Covid –19 infections

Abstract AMA Guides May June 2022

- The authors surmised, ***"While we do not dismiss the presence of long COVID or chronic COVID-19 symptoms lasting beyond a typically expected viral respiratory transmitted syndrome, neither do we uncritically accept such a syndrome in all those who were diagnosed as having COVID-19, especially in those whose initial presentation was asymptomatic or mild."***

Case 1 – Covid –19 infections

Abstract AMA Guides May June 2022

- Also, ***"Evaluators must be astute and perform unbiased, thorough assessments and focus on objective findings while carefully assessing the potential for confounding or alternate conditions"***

What does this mean? DO NOT take symptoms at face value. Provide a forensic analysis and look for alternate explanations that may be more medically probable.

Case 1 – Covid –19 infections

True or False:

When you are evaluating an injured employee that claims different symptoms as a result or exposure or infection to Covid-19, you should accept all those symptoms and assign an impairment based on symptoms

- 1. True**
- 2. False**

Case 2 – Visual System (Chapter 8)

A welder was struck with a metallic foreign body penetrating the left eye

- Traumatic cataract left eye with lens replacement
- At MMI best corrected visual acuity
 - Left eye distance 20/150, near 14/60
 - Right eye distance 20/25, near 14/14

Case 2 – Visual System (Chapter 8)

- Monocular visual field assessment via Goldmann perimeter
 - Peripheral vision left eye 450° (50° loss)
 - No loss of visual field in right eye
- Normal ocular motility
- No diplopia

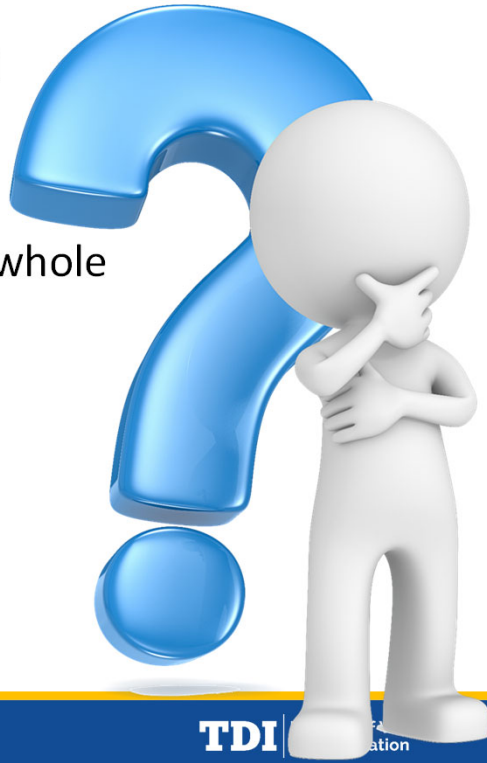
While the Goldmann perimeter is noted in the Guides on page 211 as traditional standard stimulus, it also advises there are equivalent stimuli with other instruments that can also be used that are noted in Table 1 on page 210.

Most likely you will NOT find anyone to provide visual field testing with Goldman, but most ophthalmologists currently use Allergan-Humphrey, which is one of the options in Table 1.

Case 2 – Visual System (Chapter 8)

On date of MMI, what is whole person IR?

- A. 20%
- B. 22%
- C. 23%
- D. 24%



Case 2 - Visual System (chapter 8)

Monocular method of visual field assessment (pages 217-218)

Left Eye

- Loss of central vision
 - Distance 20/150, near 14/60 = 87% left eye (Table 3, page 212)
- Loss of visual field
 - 450° of peripheral vision (50° lost) = 10% left eye (Table 5, page 214)
- Combine loss of central vision and visual field
 - 87% left eye cw 10% left eye = 88% left eye



Table 3. Loss (in %) of Central Vision* in a Single Eye.

| Snellen rating for distance in feet | Approximate Snellen rating for near in inches | | | | | | | | | | | | | |
|-------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| | 14 14 | 14 18 | 14 21 | 14 24 | 14 28 | 14 35 | 14 40 | 14 45 | 14 60 | 14 70 | 14 80 | 14 88 | 14 112 | 14 140 |
| 20 15 | 0 50 | 0 50 | 3 52 | 4 52 | 5 53 | 25 63 | 27 64 | 30 65 | 40 70 | 43 72 | 44 72 | 45 73 | 48 74 | 49 75 |
| 20 20 | 0 50 | 0 50 | 3 52 | 4 52 | 5 53 | 25 63 | 27 64 | 30 65 | 40 70 | 43 72 | 44 72 | 45 73 | 48 74 | 49 75 |
| 20 25 | 3 52 | 3 52 | 5 53 | 6 53 | 8 54 | 28 64 | 30 64 | 33 65 | 43 72 | 45 73 | 46 73 | 48 74 | 50 75 | 52 76 |
| 20 30 | 5 53 | 5 53 | 8 54 | 9 54 | 10 55 | 30 65 | 32 66 | 35 68 | 45 73 | 48 74 | 49 74 | 50 75 | 53 76 | 54 77 |
| 20 40 | 8 54 | 8 54 | 10 55 | 11 56 | 13 57 | 33 67 | 35 68 | 38 69 | 48 74 | 50 75 | 51 76 | 53 77 | 55 78 | 57 79 |
| 20 50 | 13 57 | 13 57 | 15 58 | 16 58 | 18 59 | 38 69 | 40 70 | 43 72 | 53 77 | 55 78 | 56 78 | 58 79 | 60 80 | 62 81 |
| 20 60 | 16 58 | 16 58 | 18 59 | 20 60 | 22 61 | 41 70 | 44 72 | 46 73 | 56 78 | 59 79 | 60 80 | 61 81 | 64 82 | 65 83 |
| 20 70 | 18 59 | 18 59 | 21 61 | 22 61 | 23 62 | 43 72 | 46 73 | 48 74 | 58 79 | 61 81 | 62 81 | 63 82 | 66 83 | 67 84 |
| 20 80 | 20 60 | 20 60 | 23 62 | 24 62 | 25 63 | 45 73 | 47 74 | 50 75 | 60 80 | 63 82 | 64 82 | 65 83 | 68 84 | 69 85 |
| 20 100 | 25 63 | 25 63 | 28 64 | 29 64 | 30 65 | 50 75 | 52 76 | 55 78 | 65 83 | 68 84 | 69 84 | 70 85 | 73 87 | 74 87 |
| 20 125 | 30 65 | 30 65 | 33 67 | 34 67 | 35 68 | 55 78 | 57 79 | 60 80 | 70 85 | 73 87 | 74 87 | 75 88 | 78 89 | 79 90 |
| 20 150 | 34 67 | 34 67 | 37 68 | 38 69 | 39 70 | 59 80 | 61 81 | 64 82 | 74 87 | 77 88 | 78 89 | 79 90 | 82 91 | 83 92 |
| 20 200 | 40 70 | 40 70 | 43 72 | 44 72 | 45 73 | 65 83 | 67 84 | 70 85 | 80 90 | 83 91 | 84 92 | 85 93 | 88 94 | 89 95 |
| 20 300 | 43 72 | 43 72 | 45 73 | 46 73 | 48 74 | 68 84 | 70 85 | 73 87 | 83 91 | 85 93 | 86 93 | 88 94 | 90 95 | 92 96 |
| 20 400 | 45 73 | 45 73 | 48 74 | 49 74 | 50 75 | 70 85 | 72 86 | 75 88 | 85 93 | 88 94 | 89 94 | 90 95 | 93 97 | 94 97 |
| 20 800 | 48 74 | 48 74 | 50 75 | 51 76 | 53 77 | 73 87 | 75 88 | 78 89 | 88 94 | 90 95 | 91 96 | 93 97 | 95 98 | 97 99 |

39 Upper number shows % loss of central vision without allowance for monocular aphakia or monocular pseudophakia; lower number shows % loss of central vision with allowance for monocular aphakia or monocular pseudophakia

Table 5. Loss of Monocular Visual Field.

| Total degrees | | % of Loss | Total degrees | | % of Loss | Total degrees | | % of Loss |
|---------------|----------|-----------|---------------|----------|-----------|---------------|----------|-----------|
| Lost | Retained | | Lost | Retained | | Lost | Retained | |
| 0 | 500* | 0 | 170 | 330 | 34 | 340 | 160 | 68 |
| 5 | 495 | 1 | 175 | 325 | 35 | 345 | 155 | 69 |
| 10 | 490 | 2 | 180 | 320 | 36 | 350 | 150 | 70 |
| 15 | 485 | 3 | 185 | 315 | 37 | 355 | 145 | 71 |
| 20 | 480 | 4 | 190 | 310 | 38 | 360 | 140 | 72 |
| 25 | 475 | 5 | 195 | 305 | 39 | 365 | 135 | 73 |
| 30 | 470 | 6 | 200 | 300 | 40 | 370 | 130 | 74 |
| 35 | 465 | 7 | 205 | 295 | 41 | 375 | 125 | 75 |
| 40 | 460 | 8 | 210 | 290 | 42 | 380 | 120 | 76 |
| 45 | 455 | 9 | 215 | 285 | 43 | 385 | 115 | 77 |
| 50 | 450 | 10 | 220 | 280 | 44 | 390 | 110 | 78 |
| 55 | 445 | 11 | 225 | 275 | 45 | 395 | 105 | 79 |
| 60 | 440 | 12 | 230 | 270 | 46 | 400 | 100 | 80 |
| 65 | 435 | 13 | 235 | 265 | 47 | 405 | 95 | 81 |
| 70 | 430 | 14 | 240 | 260 | 48 | 410 | 90 | 82 |
| 75 | 425 | 15 | 245 | 255 | 49 | 415 | 85 | 83 |
| 80 | 420 | 16 | 250 | 250 | 50 | 420 | 80 | 84 |
| 85 | 415 | 17 | 255 | 245 | 51 | 425 | 75 | 85 |
| 90 | 410 | 18 | 260 | 240 | 52 | 430 | 70 | 86 |
| 95 | 405 | 19 | 265 | 235 | 53 | 435 | 65 | 87 |
| 100 | 400 | 20 | 270 | 230 | 54 | 440 | 60 | 88 |
| 105 | 395 | 21 | 275 | 225 | 55 | 445 | 55 | 89 |
| 110 | 390 | 22 | 280 | 220 | 56 | 450 | 50 | 90 |
| 115 | 385 | 23 | 285 | 215 | 57 | 455 | 45 | 91 |
| 120 | 380 | 24 | 290 | 210 | 58 | 460 | 40 | 92 |
| 125 | 375 | 25 | 295 | 205 | 59 | 465 | 35 | 93 |
| 130 | 370 | 26 | 300 | 200 | 60 | 470 | 30 | 94 |
| 135 | 365 | 27 | 305 | 195 | 61 | 475 | 25 | 95 |
| 140 | 360 | 28 | 310 | 190 | 62 | 480 | 20 | 96 |
| 145 | 355 | 29 | 315 | 185 | 63 | 485 | 15 | 97 |
| 150 | 350 | 30 | 320 | 180 | 64 | 490 | 10 | 98 |
| 155 | 345 | 31 | 325 | 175 | 65 | 495 | 5 | 99 |
| 160 | 340 | 32 | 330 | 170 | 66 | 500 | 0 | 100 |
| 165 | 335 | 33 | 335 | 165 | 67 | | | |

*Or more.

Case 2 - Visual System (chapter 8)

Monocular method of visual field assessment (pages 217-218)

Right Eye

- Loss of central vision
 - Distance 20/25, near 14/14 = 3% right eye
 - Normal visual field
 - 3% right eye cw 0% right eye = 3% right eye



Table 3. Loss (in %) of Central Vision* in a Single Eye.

| Snellen rating for distance in feet | Approximate Snellen rating for near in inches | | | | | | | | | | | | | |
|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 20 | 0 | 0 | 3 | 4 | 5 | 25 | 27 | 30 | 40 | 43 | 44 | 45 | 48 | 49 |
| 15 | 50 | 50 | 52 | 52 | 53 | 63 | 64 | 65 | 70 | 72 | 72 | 73 | 74 | 75 |
| 20 | 0 | 0 | 3 | 4 | 5 | 25 | 27 | 30 | 40 | 43 | 44 | 46 | 48 | 49 |
| 20 | 50 | 50 | 52 | 52 | 53 | 63 | 64 | 65 | 70 | 72 | 72 | 73 | 74 | 75 |
| 20 | 3 | 3 | 5 | 6 | 8 | 28 | 30 | 33 | 43 | 45 | 46 | 48 | 50 | 52 |
| 25 | 52 | 52 | 53 | 53 | 54 | 64 | 65 | 67 | 72 | 73 | 73 | 74 | 75 | 76 |
| 20 | 5 | 5 | 8 | 9 | 10 | 30 | 32 | 35 | 45 | 48 | 49 | 50 | 53 | 54 |
| 30 | 53 | 53 | 54 | 54 | 55 | 65 | 66 | 68 | 73 | 74 | 74 | 75 | 76 | 77 |
| 20 | 8 | 8 | 10 | 11 | 13 | 33 | 35 | 38 | 48 | 50 | 51 | 53 | 55 | 57 |
| 40 | 54 | 54 | 55 | 56 | 57 | 67 | 68 | 69 | 74 | 75 | 76 | 77 | 78 | 79 |
| 20 | 13 | 13 | 15 | 16 | 18 | 38 | 40 | 43 | 53 | 55 | 56 | 58 | 60 | 62 |
| 50 | 57 | 57 | 58 | 58 | 59 | 69 | 70 | 72 | 77 | 78 | 78 | 79 | 80 | 81 |
| 20 | 16 | 16 | 18 | 20 | 22 | 41 | 44 | 46 | 56 | 59 | 60 | 61 | 64 | 65 |
| 60 | 58 | 58 | 59 | 60 | 61 | 70 | 72 | 73 | 78 | 79 | 80 | 81 | 82 | 83 |
| 20 | 18 | 18 | 21 | 22 | 23 | 43 | 46 | 48 | 58 | 61 | 62 | 63 | 66 | 67 |
| 70 | 59 | 59 | 61 | 61 | 62 | 72 | 73 | 74 | 79 | 81 | 81 | 82 | 83 | 84 |
| 20 | 20 | 20 | 23 | 24 | 25 | 45 | 47 | 50 | 60 | 63 | 64 | 65 | 68 | 69 |
| 80 | 60 | 60 | 62 | 62 | 63 | 73 | 74 | 75 | 80 | 82 | 82 | 83 | 84 | 85 |
| 20 | 25 | 25 | 28 | 29 | 30 | 50 | 52 | 55 | 65 | 68 | 69 | 70 | 73 | 74 |
| 100 | 63 | 63 | 64 | 64 | 65 | 75 | 76 | 78 | 83 | 84 | 84 | 85 | 87 | 87 |
| 20 | 30 | 30 | 33 | 34 | 35 | 55 | 57 | 60 | 70 | 73 | 74 | 75 | 78 | 79 |
| 125 | 65 | 65 | 67 | 67 | 68 | 78 | 79 | 80 | 85 | 87 | 87 | 88 | 89 | 90 |
| 20 | 34 | 34 | 37 | 38 | 39 | 59 | 61 | 64 | 74 | 77 | 78 | 79 | 82 | 83 |
| 150 | 67 | 67 | 68 | 69 | 70 | 80 | 81 | 82 | 87 | 88 | 89 | 90 | 91 | 92 |
| 20 | 40 | 40 | 43 | 44 | 45 | 65 | 67 | 70 | 80 | 83 | 84 | 85 | 88 | 89 |
| 200 | 70 | 70 | 72 | 72 | 73 | 83 | 84 | 85 | 90 | 91 | 92 | 93 | 94 | 95 |
| 20 | 43 | 43 | 45 | 46 | 48 | 68 | 70 | 73 | 83 | 85 | 86 | 88 | 90 | 92 |
| 300 | 72 | 72 | 73 | 73 | 74 | 84 | 85 | 87 | 91 | 93 | 93 | 94 | 95 | 96 |
| 20 | 45 | 45 | 48 | 49 | 50 | 70 | 72 | 75 | 85 | 88 | 89 | 90 | 93 | 94 |
| 400 | 73 | 73 | 74 | 74 | 75 | 85 | 86 | 88 | 93 | 94 | 94 | 95 | 97 | 97 |
| 20 | 48 | 48 | 50 | 51 | 53 | 73 | 75 | 78 | 88 | 90 | 91 | 93 | 95 | 97 |
| 800 | 74 | 74 | 75 | 76 | 77 | 87 | 88 | 89 | 94 | 95 | 96 | 97 | 98 | 99 |

*Upper number shows % loss of central vision without allowance for monocular aphakia or monocular pseudophakia;

lower number shows % loss of central vision with allowance for monocular aphakia or monocular pseudophakia

Compensation

Table 5. Loss of Monocular Visual Field.

| Total degrees | | % of Loss | Total degrees | | % of Loss | Total degrees | | % of Loss |
|---------------|----------|-----------|---------------|----------|-----------|---------------|----------|-----------|
| Lost | Retained | | Lost | Retained | | Lost | Retained | |
| 0 | 500* | 0 | 170 | 330 | 34 | 340 | 160 | 68 |
| 5 | 495 | 1 | 175 | 325 | 35 | 345 | 155 | 69 |
| 10 | 490 | 2 | 180 | 320 | 36 | 350 | 150 | 70 |
| 15 | 485 | 3 | 185 | 315 | 37 | 355 | 145 | 71 |
| 20 | 480 | 4 | 190 | 310 | 38 | 360 | 140 | 72 |
| 25 | 475 | 5 | 195 | 305 | 39 | 365 | 135 | 73 |
| 30 | 470 | 6 | 200 | 300 | 40 | 370 | 130 | 74 |
| 35 | 465 | 7 | 205 | 295 | 41 | 375 | 125 | 75 |
| 40 | 460 | 8 | 210 | 290 | 42 | 380 | 120 | 76 |
| 45 | 455 | 9 | 215 | 285 | 43 | 385 | 115 | 77 |
| 50 | 450 | 10 | 220 | 280 | 44 | 390 | 110 | 78 |
| 55 | 445 | 11 | 225 | 275 | 45 | 395 | 105 | 79 |
| 60 | 440 | 12 | 230 | 270 | 46 | 400 | 100 | 80 |
| 65 | 435 | 13 | 235 | 265 | 47 | 405 | 95 | 81 |
| 70 | 430 | 14 | 240 | 260 | 48 | 410 | 90 | 82 |
| 75 | 425 | 15 | 245 | 255 | 49 | 415 | 85 | 83 |
| 80 | 420 | 16 | 250 | 250 | 50 | 420 | 80 | 84 |
| 85 | 415 | 17 | 255 | 245 | 51 | 425 | 75 | 85 |
| 90 | 410 | 18 | 260 | 240 | 52 | 430 | 70 | 86 |
| 95 | 405 | 19 | 265 | 235 | 53 | 435 | 65 | 87 |
| 100 | 400 | 20 | 270 | 230 | 54 | 440 | 60 | 88 |
| 105 | 395 | 21 | 275 | 225 | 55 | 445 | 55 | 89 |
| 110 | 390 | 22 | 280 | 220 | 56 | 450 | 50 | 90 |
| 115 | 385 | 23 | 285 | 215 | 57 | 455 | 45 | 91 |
| 120 | 380 | 24 | 290 | 210 | 58 | 460 | 40 | 92 |
| 125 | 375 | 25 | 295 | 205 | 59 | 465 | 35 | 93 |
| 130 | 370 | 26 | 300 | 200 | 60 | 470 | 30 | 94 |
| 135 | 365 | 27 | 305 | 195 | 61 | 475 | 25 | 95 |
| 140 | 360 | 28 | 310 | 190 | 62 | 480 | 20 | 96 |
| 145 | 355 | 29 | 315 | 185 | 63 | 485 | 15 | 97 |
| 150 | 350 | 30 | 320 | 180 | 64 | 490 | 10 | 98 |
| 155 | 345 | 31 | 325 | 175 | 65 | 495 | 5 | 99 |
| 160 | 340 | 32 | 330 | 170 | 66 | 500 | 0 | 100 |
| 165 | 335 | 33 | 335 | 165 | 67 | | | |

Case 2 - Visual System (chapter 8)

Monocular method of visual field assessment (pages 217-218)

- For worse eye combine eye IR% for central vision and visual field with eye IR% for ocular motility/diplopia
 - Normal ocular motility/no diplopia = 0%
 - 88% left eye cw 0% = **88% left eye**
- Determine visual system IR% – origin of “better eye” and “worse eye” (Table 7, pages 219-221)
 - Origin of 88% left eye
 - cw 3% right eye = **24% visual system**
- Convert visual system to whole person (Table 6, page 218)
 - 24% visual system = **23% WP**



Table 7. Visual System Impairment for Both Eyes.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| % impairment visual system | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 1 | 2 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 1 | 2 | 3 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 1 | 2 | 3 | 4 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 14 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 15 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 19 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 | 23 | 24 | 24 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 27 | 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 31 | 32 | | | | | | | | | | | | | | | | | | | | | | | |
| | 33 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 32 | 33 | | | | | | | | | | | | | | | | | | | | | | |
| | 34 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | | | | | | | | | | | | | | | | | | | | | |
| | 35 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 34 | 35 | | | | | | | | | | | | | | | | | | | | |
| | 36 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | | | | | | | | | | | | | | | | | | | | |
| | 37 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | | | | | | | | | | | | | | | | | | | | |
| | 38 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | | | | | | | | | | | | | | | | | | | |
| | 39 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | | | | | | | | | | | | | | | | | | |
| | 40 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | | | | | | | | | | | | | | | | |
| | 41 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | | | | | | | | | | | | | | | | | |
| | 42 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | | | | | | | | | | | | | | | | |
| | 43 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | | | | | | | | | | | | | | | |
| | 44 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | | | | | | | | | | | | | | |
| 45 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | | | | | | | | | | | | | | | |
| 46 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | | | | | | | | | | | | | | |
| 47 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | | | | | | | | | | | | | |
| 48 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | | | | | | | | | | | | |
| 49 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | | | | | | | | | | | | |
| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |

The values in this table are based on the following formula:

$$\frac{5 \times \text{impairment value of better eye} + \text{impairment value of worse eye}}{4} = \text{impairment of visual system}$$

The guides to the table are percentage impairment values for each eye. The percentage for the worse eye is read at the side of the table. The percentage for the better eye is read at the bottom of the table. At the intersection of the column for the worse eye and the column for the better eye is the impairment of visual system value.

For example, when there is 60% impairment of one eye and 30% impairment of the other eye, read down the side of the table until you come to the larger value (60%). Then follow across the row until it is intersected by the column designated by 30% at the bottom of the page. At the intersection of these two columns is printed the number 38. This number (38) represents the percentage impairment of the visual system when there is 60% impairment of one eye and 30% impairment of the other eye.

If bilateral aphakia is present and corrected central vision has been used in evaluation, impairment of the visual system is weighted by an additional 25% decrease in the value of the remaining corrected vision. For example, a 38% impairment (62% remaining) would be increased to 38% + (25%)(62%) = 54%.

Visual System Impairment (Table 7, pg. 220)

| | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 80 | 20 | 21 | 22 | 22 | 23 | 24 | 25 | 25 | 26 | 27 |
| 81 | 20 | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 26 | 27 |
| 82 | 21 | 21 | 22 | 23 | 24 | 24 | 25 | 26 | 27 | 27 |
| 83 | 21 | 22 | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 28 |
| 84 | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 26 | 27 | 28 |
| 85 | 21 | 22 | 23 | 24 | 24 | 25 | 26 | 27 | 27 | 28 |
| 86 | 22 | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 28 |
| 87 | 22 | 23 | 23 | 24 | 25 | 26 | 26 | 27 | 28 | 29 |
| 88 | 22 | 23 | 24 | 24 | 25 | 26 | 27 | 27 | 28 | 29 |
| 89 | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 28 | 29 |
| 90 | 23 | 23 | 24 | 25 | 26 | 26 | 27 | 28 | 29 | 29 |
| 91 | 23 | 24 | 24 | 25 | 26 | 27 | 27 | 28 | 29 | 30 |
| 92 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 28 | 29 | 30 |
| 93 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 29 | 29 | 30 |
| 94 | 24 | 24 | 25 | 25 | 27 | 27 | 28 | 29 | 30 | 30 |
| 95 | 24 | 25 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 |
| 96 | 24 | 25 | 26 | 26 | 27 | 28 | 29 | 29 | 30 | 31 |
| 97 | 24 | 25 | 26 | 27 | 27 | 28 | 29 | 30 | 30 | 31 |
| 98 | 25 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 31 |
| 99 | 25 | 26 | 26 | 27 | 28 | 29 | 29 | 30 | 31 | 32 |
| 100 | 25 | 26 | 27 | 27 | 28 | 29 | 30 | 30 | 31 | 32 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Visual System Impairment (Table 6, pg. 218)

Table 6. Impairment of the Visual System as It Relates to Impairment of the Whole Person.

| % Impairment of the | | | | | | | | | | | |
|---------------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Visual system | Whole person | Visual system | Whole person | Visual system | Whole person | Visual system | Whole person | Visual system | Whole person | Visual system | Whole person |
| 0 | 0 | 15 | 14 | 30 | 28 | 45 | 42 | 60 | 57 | 75 | 71 |
| 1 | 1 | 16 | 15 | 31 | 29 | 46 | 43 | 61 | 58 | 76 | 72 |
| 2 | 2 | 17 | 16 | 32 | 30 | 47 | 44 | 62 | 59 | 77 | 73 |
| 3 | 3 | 18 | 17 | 33 | 31 | 48 | 45 | 63 | 59 | 78 | 74 |
| 4 | 4 | 19 | 18 | 34 | 32 | 49 | 46 | 64 | 60 | 79 | 75 |
| 5 | 5 | 20 | 19 | 35 | 33 | 50 | 47 | 65 | 61 | 80 | 76 |
| 6 | 6 | 21 | 20 | 36 | 34 | 51 | 48 | 66 | 62 | 81 | 76 |
| 7 | 7 | 22 | 21 | 37 | 35 | 52 | 49 | 67 | 63 | 82 | 77 |
| 8 | 8 | 23 | 22 | 38 | 36 | 53 | 50 | 68 | 64 | 83 | 78 |
| 9 | 8 | 24 | 23 | 39 | 37 | 54 | 51 | 69 | 65 | 84 | 79 |
| 10 | 9 | 25 | 24 | 40 | 38 | 55 | 52 | 70 | 66 | 85 | 80 |
| 11 | 10 | 26 | 25 | 41 | 39 | 56 | 53 | 71 | 67 | 86 | 81 |
| 12 | 11 | 27 | 25 | 42 | 40 | 57 | 54 | 72 | 68 | 87 | 82 |
| 13 | 12 | 28 | 26 | 43 | 41 | 58 | 55 | 73 | 69 | 88 | 83 |
| 14 | 13 | 29 | 27 | 44 | 42 | 59 | 56 | 74 | 70 | 89 | 84 |
| | | | | | | | | | | 90-100 | 85 |

Case 2 – Visual System (Chapter 8)

The IE had a corneal injury resulting in a significant impairment of the affected eye. There was a prior traumatic enucleation of the non-injured eye.

This was prior to the DOI, so do not consider the prior eye injury

1. True
2. False

The Visual chapter considers vision as a system.

This includes the injured eye at MMI and the pre-existing uninjured eye.

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS of VISUAL SYSTEM

LW1

- This case, as are MOST of the visual system considers ACUITY ONLY!
- The VISUAL SYSTEM also encompasses:
 - ✓ Visual Fields
 - ✓ Diplopia
 - ✓ Other affects to the visual system not accounted for by acuity, VF, diplopia

Slide 49

LW1

NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

Case 2 – Visual System (Chapter 8)

AN IMPORTANT CONSIDERATION of VISUAL SYSTEM - VISUAL FIELDS

LW1

- If there is an injury that would not affect visual fields, such testing is not necessary.
 - ✓ At least document that you performed visual field testing to confrontation in the 4 major quadrants
 - ✓ AND explain that the injury would not affect visual fields
- If there is an injury to the EYE that would be expected to result in or the pathways of vision integration in the brain, then BEST PRACTICE would be to get formal testing
 - ✓ Goldmann Perimeter
 - ✓ Humphreys
 - ✓ ETC.

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TDI | Division of Workers' Compensation

CONSIDER:

APPEAL NO. 251341 FILED OCTOBER 9, 2025

The AP reversed the ALJ's determination of 0% IR, in a case where there was a SIGNIFICANT TBI, affecting the pathways of the visual system

The ALJ is to advise the designated doctor that the compensable injury is a mild closed head injury, scalp contusion, scalp laceration, subdural hemorrhage, concussion, post-concussion syndrome, post-concussion symptoms with vestibular disorder, headaches, traumatic skull pain, scalp contusion, right side cortical blindness, homonymous bilateral field defects, left side stroke in occipital lobe on the right side, left homonymous hemianopsia and quadrantanopia (visual defects) with right medial occipital infarct, and interhemispheric subdural hematoma (intercranial hemorrhage that occurs between the cerebral/brain hemispheres), and that the steps for determining the impairment of the visual system in Chapter 8 of the AMA Guides must be followed, including providing all measurements and using any equipment that is required, in accordance with Rule 130.1(c)(3).

Slide 50

LW1 NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

LW1 0 I removed the June date as it is not relevant, only the filing date. Specified that the 0% IR was what was remanded. Same on next slide.

Lisa Wharry, 2025-10-14T13:11:48.925

LW1 1 Gotcha

Lori Wasserburger, 2025-10-15T01:43:08.926

Case 2 – Visual System (Chapter 8)

CONSIDERATION of VISUAL SYSTEM - VISUAL FIELDS as per:

LW1

- **AMA GUIDES to Peranent Impairment – 4th**
- **APPEAL NO. 251341 FILED OCTOBER 9, 2025**
- Case involves a significant TBI with intracranial hemorrhages and contusions and a determined IR of 0%
 - ✓ The issue was remanded back to the ALJ, with instructions to advise the DD to determine IR for the visual system using the steps in Chapter 8 of the AMA Guides.

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TDI | Division of Workers' Compensation

CONSIDER:

APPEAL NO. 251341 FILED OCTOBER 9, 2025

The AP reversed the ALJ's decision of 0% IR in a case where there was a SIGNIFICANT TBI, affecting the pathways of the visual system

The ALJ is to advise the designated doctor that the compensable injury is a mild closed head injury, scalp contusion, scalp laceration, subdural hemorrhage, concussion, post-concussion syndrome, post-concussion symptoms with vestibular disorder, headaches, traumatic skull pain, scalp contusion, right side cortical blindness, homonymous bilateral field defects, left side stroke in occipital lobe on the right side, left homonymous hemianopsia and quadrantanopia (visual defects) with right medial occipital infarct, and interhemispheric subdural hematoma (intercranial hemorrhage that occurs between the cerebral/brain hemispheres), and that the steps for determining the impairment of the visual system in Chapter 8 of the AMA Guides must be followed, including providing all measurements and using any equipment that is required, in accordance with Rule 130.1(c)(3).

Slide 51

LW1 NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

LW1 0 Made the 3rd bullet more specific. Do you want these same speaker notes here (on previous slide also)

Lisa Wharry, 2025-10-14T13:15:51.237

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS - VISUAL FIELDS (+)

LW1

- Step 1: Determine and record the percentage loss of central vision for each eye separately, combining the losses of near and distance vision.
- **Step 2: Determine and record the percentage loss of visual field for each eye separately (monocular) or for both eyes together (binocular).**
- Step 3: Determine and record the percentage loss of ocular motility. Step 4: After determining the level of impairment of each eye, use Table 7 (p. 219) to determine visual system impairment.

LW1

NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS of VISUAL SYSTEM

LW1

VISUAL FIELDS: On page 8/217, in Section 8.4,

- **Step 2:** Determine and record the percentage loss of visual field for each eye separately (monocular) or for both eyes together (binocular).
 - ✓ Section 8.2 Visual Fields on page 8/211 discusses the methods for determining visual field acuity
 - ✓ Table 1 on page 8/210 of the AMA Guides lists the acceptable equipment needed for testing visual field acuity, which includes
 - Goldmann (kinetic),
 - ARC perimeter (kinetic),
 - Allergan-**Humphrey** (static, size 3),
 - Octopus (static size 3).

NOTE that past presentations have focused on the Goldman Perimeter – however, there are SCANT ophthalmologists / optometrists that have this antiquated equipment from the GUIDES for 30 years ago.

You may have more success with the “Humphrey”

Slide 53

LW1

NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS of VISUAL SYSTEM

LW1

ONCE ALL ASPECTS OF VS CONSIDERED

- Step 4: After determining the level of impairment of each eye, use Table 7 (p. 219) to determine visual system impairment.
- Step 5: Consult Table 6 to ascertain the impairment of the whole person that is contributed by impairment of the visual system.

THEN CONSIDER other IR to the VS and adjacent to VS

- IR affecting a specific eye is combined to the VISUAL SYSTEM of THAT eye
- IR affecting the systems adjacent to the eye function is its OWN WP IR

Slide 54

LW1

NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS of VISUAL SYSTEM

- There can be affects to the VS that are externa to the VS and COMBINE AFTER calculations of WP to the VS
- If an ocular or adnexal disturbance or deformity interferes with visual function and is not reflected in diminished visual acuity, decreased visual fields, or ocular motility with diplopia, the significance of the disturbance or deformity should be evaluated by the examining physician.
- In that situation, **the physician may combine an additional 5% to 10% impairment with the impaired visual function of the involved eye.**

5% to 10% impairment with the impaired visual function of the involved eye.

Case 2 – Visual System (Chapter 8)

OTHER CONSIDERATIONS of VISUAL SYSTEM

LW1

- Other affects to the visual system not accounted for by acuity, VF, diplopia
 - ✓ Photophobia: Not unusual due to objective traumatic mydriasis (injury to the pupil)
 - ✓ Media, corneal or lens opacities
 - ✓ Epiphora: excessive watering of the eye.
 - ✓ Metamorphopsia: a visual distortion where objects appear altered in size, shape, or position.

Try to find objective findings of injury that would allow you to assign OBJECTIVE and PERMENENT IMAPIRMENT

Ask questions ! Under what situations are the symptoms experienced? Is this consistent with the injury that occurred? Symptom do not equate with and IR unless there is consistency with the MOI, the objective findings and the EBM related to that type of injury.

Slide 56

LW1

NEW SLIDE

Lori Wasserburger, 2025-10-14T00:26:13.835

Questions about Non-MSK MMI/IR Case 2?



Questions about Non-MSK MMI/IR Case 2?



Case 3 – Hearing (ENT & Related Structures - Chapter 9)

- 32 year old firefighter with 10 years experience had unexpected acoustic barotrauma (an extremely close siren) while not wearing hearing protection
- Pre-employment and yearly hearing tests have been normal
- Exam demonstrated eardrum perforation on the left

Depends on ADLs.

Case 3 – Hearing (Chapter 9)

- Complains of hearing loss in the left ear and tinnitus that is constant
 - Reduced only slightly with white noise and interferes with sleep
 - In high noise environment, he has difficulty understanding speech of co-workers

Depends on ADLs.

Case 3 – Hearing (Chapter 9)

Uncorrected hearing audiogram testing after the injury

Right Ear:

- 500 Hz = 10 db, 1000 db = 20 db, 2000, = 30 db and 3000 = 40 db. **DSHL = 100**

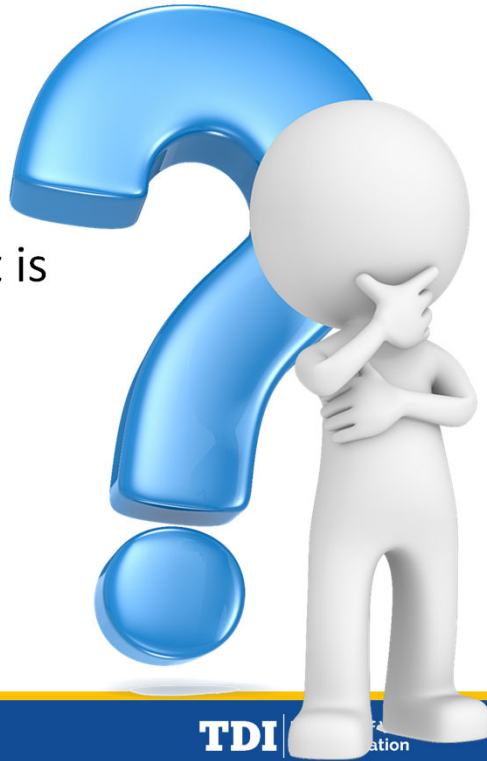
Left Ear:

- 500 Hz = 50 db, 1000 db = 70 db, 2000, = 90 db and 3000 = 130 db. **DSHL = 340**

Case 3 – Hearing (Chapter 9)

On date of MMI, what is
whole person IR?

- A. 5 %
- B. 15 %
- C. 20 %
- D. 90 %



5 % is the correct answer

Case 3 – Hearing (Chapter 9)

Right Ear:

500 Hz = 10 db
1000 Hz = 20 db
2000 Hz = 30 db
3000 Hz = 40 db

DSHL = 100 db = 0% Monaural loss

While you can calculate monaural loss, you can skip this step and only use the DSHL

Case 3 – Hearing (Chapter 9)

Affected / Worst Left Ear:

500 Hz = 50 db

1000 Hz = 70 db

2000 Hz = 90 db

3000 Hz = 130 db

DSHL = 340 db. = 90.0 % Monaural loss

While you can calculate monaural loss, you can skip this step and only use the DSHL

Case 3 – Hearing (Chapter 9)

Be familiar with how to use

Tables: 1, 2, and 3

- Considering Decibel Sum Hearing Levels (DSHL)
 - DSHL of the unaffected Right Ear
 - DSHL of the affected Left Ear

ONLY specific frequencies needed.

Be familiar if you must order testing.

DSHL is based ONLY on 500, 1000, 2000 and 3000 Hz.

More frequencies may be done, but THESE are the necessary and relevant.

Chapter 9, Table 1, Page 225

Table 1. Monaural Hearing Loss and Impairment (%)*

| DSHL† | % | DSHL | % | DSHL | % |
|-------|------|------|------|------------|-------------|
| 100 | 0.0 | 190 | 33.8 | 285 | 69.3 |
| | | 195 | 35.6 | 290 | 71.2 |
| 105 | 1.9 | 200 | 37.5 | 295 | 73.1 |
| 110 | 3.8 | | | 300 | 75.0 |
| 115 | 5.6 | 205 | 39.4 | | |
| 120 | 7.5 | 210 | 41.2 | 305 | 76.9 |
| | | 215 | 43.1 | 310 | 78.8 |
| 125 | 9.4 | 220 | 45.0 | 315 | 80.6 |
| 130 | 11.2 | | | 320 | 82.5 |
| 135 | 13.1 | 225 | 46.9 | | |
| 140 | 15.0 | 230 | 48.9 | 325 | 84.4 |
| | | 235 | 50.5 | 330 | 86.2 |
| 145 | 16.9 | 240 | 52.5 | 335 | 88.1 |
| 150 | 18.8 | | | 340 | 90.0 |
| 155 | 20.6 | 245 | 54.4 | 345 | 90.9 |
| 160 | 22.5 | 250 | 56.2 | 350 | 93.8 |
| | | 255 | 58.1 | 355 | 95.6 |
| 165 | 24.4 | 260 | 60.0 | 360 | 97.5 |
| 170 | 26.2 | | | | |
| 175 | 28.1 | 265 | 61.9 | 365 | 99.4 |
| 180 | 30.0 | 270 | 63.8 | 368 | 100.0 |
| | | 275 | 65.6 | | |
| 185 | 31.9 | 280 | 67.5 | or greater | |

*Audiometers are calibrated to ANSI 3.6-1989 standard reference levels.

†Decibel sum of the hearing threshold levels at 500, 1000, 2000, and 3000 Hz.

Table 1 for DSHL of 340 is 90% monaural hearing loss - BUT, this step is not needed.

You can go directly to Table 2

Table 2. Computation of Binaural Hearing Impairment*

| Worse ear | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 100 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| 105 | 0.3 1.9 | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 0.6 2.2 3.8 | | | | | | | | | | | | | | | | | | | | | | |
| 115 | 0.9 2.5 4.1 5.1 | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 1.3 2.8 4.4 5.9 7.5 | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 1.6 3.1 4.7 6.3 7.8 9.4 | | | | | | | | | | | | | | | | | | | | | | |
| 130 | 1.9 3.4 5 6.6 8.1 9.7 11.3 | | | | | | | | | | | | | | | | | | | | | | |
| 135 | 2.2 3.8 5.3 6.9 8.4 10 11.6 13.1 | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 2.5 4.1 5.6 7.2 8.8 10.3 11.9 13.4 15 | | | | | | | | | | | | | | | | | | | | | | |
| 145 | 2.8 4.4 5.9 7.5 9.1 10.6 12.2 13.8 15.3 16.9 | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 3.1 4.7 6.3 7.8 9.4 10.9 12.5 14.1 15.6 17.2 18.8 | | | | | | | | | | | | | | | | | | | | | | |
| 155 | 3.4 5 6.6 8.1 9.7 11.3 12.8 14.4 15.9 17.5 19.1 20.6 | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 3.8 5.3 6.9 8.4 10 11.6 13.1 14.7 16.3 17.8 19.4 20.9 22.5 24.1 25.6 27.2 | | | | | | | | | | | | | | | | | | | | | | |
| 165 | 4.1 5.6 7.2 8.8 10.3 11.9 13.4 15 16.6 18.1 19.7 21.3 22.8 24.4 25.9 27.5 29.1 30.6 32.2 33.8 35.3 36.9 38.4 40 41.6 43.1 44.7 46.3 47.8 49.4 50.9 52.5 54.1 55.6 57.2 | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 4.4 5.9 7.5 9.1 10.6 12.2 13.8 15.3 16.9 18.4 20 21.6 23.1 24.7 26.3 27.8 29.4 30.9 32.5 34.1 35.6 37.2 38.8 40.3 41.9 43.4 45 46.6 48.1 49.7 51.3 52.8 54.4 55.9 57.5 59.1 60.6 62.2 63.8 65.3 66.9 68.4 70 71.6 73.1 74.7 76.3 77.8 79.4 80.9 82.5 84 85.6 87.1 88.7 90.3 91.8 93.4 94.9 96.5 98 99.6 101.2 102.7 104.3 105.9 107.4 109 110.6 112.1 113.7 115.3 116.8 118.4 119.9 121.5 123 124.6 126.2 127.7 129.3 130.9 132.4 134 135.6 137.1 138.7 140.3 141.8 143.4 144.9 146.5 148.1 149.6 151.2 152.7 154.3 155.9 157.4 159 160.6 162.1 163.7 165.3 166.8 168.4 170 171.6 173.1 174.7 176.3 177.8 179.4 180.9 182.5 184 185.6 187.1 188.7 190.3 191.8 193.4 194.9 196.5 198 199.6 201.2 202.7 204.3 205.9 207.4 209 210.6 212.1 213.7 215.3 216.8 218.4 219.9 221.5 223 224.6 226.2 227.7 229.3 230.9 232.4 234 235.6 237.1 238.7 240.3 241.8 243.4 244.9 246.5 248 249.6 251.2 252.7 254.3 255.9 257.4 259 260.6 262.1 263.7 265.3 266.8 268.4 269.9 271.5 273 274.6 276.2 277.7 279.3 280.9 282.4 284 285.6 287.1 288.7 290.3 291.8 293.4 294.9 296.5 298 299.6 301.2 302.7 304.3 305.9 307.4 309 310.6 312.1 313.7 315.3 316.8 318.4 319.9 321.5 323 324.6 326.2 327.7 329.3 330.9 332.4 334 335.6 337.1 338.7 340.3 341.8 343.4 344.9 346.5 348 349.6 351.2 352.7 354.3 355.9 357.4 359 360.6 362.1 363.7 365.3 366.8 368.4 369.9 371.5 373 374.6 376.2 377.7 379.3 380.9 382.4 384 385.6 387.1 388.7 390.3 391.8 393.4 394.9 396.5 398 399.6 401.2 402.7 404.3 405.9 407.4 409 410.6 412.1 413.7 415.3 416.8 418.4 419.9 421.5 423 424.6 426.2 427.7 429.3 430.9 432.4 434 435.6 437.1 438.7 440.3 441.8 443.4 444.9 446.5 448 449.6 451.2 452.7 454.3 455.9 457.4 459 460.6 462.1 463.7 465.3 466.8 468.4 469.9 471.5 473 474.6 476.2 477.7 479.3 480.9 482.4 484 485.6 487.1 488.7 490.3 491.8 493.4 494.9 496.5 498 499.6 501.2 502.7 504.3 505.9 507.4 509 510.6 512.1 513.7 515.3 516.8 518.4 519.9 521.5 523 524.6 526.2 527.7 529.3 530.9 532.4 534 535.6 537.1 538.7 540.3 541.8 543.4 544.9 546.5 548 549.6 551.2 552.7 554.3 555.9 557.4 559 560.6 562.1 563.7 565.3 566.8 568.4 569.9 571.5 573 574.6 576.2 577.7 579.3 580.9 582.4 584 585.6 587.1 588.7 590.3 591.8 593.4 594.9 596.5 598 599.6 601.2 602.7 604.3 605.9 607.4 609 610.6 612.1 613.7 615.3 616.8 618.4 619.9 621.5 623 624.6 626.2 627.7 629.3 630.9 632.4 634 635.6 637.1 638.7 640.3 641.8 643.4 644.9 646.5 648 649.6 651.2 652.7 654.3 655.9 657.4 659 660.6 662.1 663.7 665.3 666.8 668.4 669.9 671.5 673 674.6 676.2 677.7 679.3 680.9 682.4 684 685.6 687.1 688.7 690.3 691.8 693.4 694.9 696.5 698 699.6 701.2 702.7 704.3 705.9 707.4 709 710.6 712.1 713.7 715.3 716.8 718.4 719.9 721.5 723 724.6 726.2 727.7 729.3 730.9 732.4 734 735.6 737.1 738.7 740.3 741.8 743.4 744.9 746.5 748 749.6 751.2 752.7 754.3 755.9 757.4 759 760.6 762.1 763.7 765.3 766.8 768.4 769.9 771.5 773 774.6 776.2 777.7 779.3 780.9 782.4 784 785.6 787.1 788.7 790.3 791.8 793.4 794.9 796.5 798 799.6 801.2 802.7 804.3 805.9 807.4 809 810.6 812.1 813.7 815.3 816.8 818.4 819.9 821.5 823 824.6 826.2 827.7 829.3 830.9 832.4 834 835.6 837.1 838.7 840.3 841.8 843.4 844.9 846.5 848 849.6 851.2 852.7 854.3 855.9 857.4 859 860.6 862.1 863.7 865.3 866.8 868.4 869.9 871.5 873 874.6 876.2 877.7 879.3 880.9 882.4 884 885.6 887.1 888.7 890.3 891.8 893.4 894.9 896.5 898 899.6 901.2 902.7 904.3 905.9 907.4 909 910.6 912.1 913.7 915.3 916.8 918.4 919.9 921.5 923 924.6 926.2 927.7 929.3 930.9 932.4 934 935.6 937.1 938.7 940.3 941.8 943.4 944.9 946.5 948 949.6 951.2 952.7 954.3 955.9 957.4 959 960.6 962.1 963.7 965.3 966.8 968.4 969.9 971.5 973 974.6 976.2 977.7 979.3 980.9 982.4 984 985.6 987.1 988.7 990.3 991.8 993.4 994.9 996.5 998 999.6 1001.2 1002.7 1004.3 1005.9 1007.4 1009 1010.6 1012.1 1013.7 1015.3 1016.8 1018.4 1019.9 1021.5 1023 1024.6 1026.2 1027.7 1029.3 1030.9 1032.4 1034 1035.6 1037.1 1038.7 1040.3 1041.8 1043.4 1044.9 1046.5 1048 1049.6 1051.2 1052.7 1054.3 1055.9 1057.4 1059 1060.6 1062.1 1063.7 1065.3 1066.8 1068.4 1069.9 1071.5 1073 1074.6 1076.2 1077.7 1079.3 1080.9 1082.4 1084 1085.6 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1318.4 1319.9 1321.5 1323 1324.6 1326.2 1327.7 1329.3 1330.9 1332.4 1334 1335.6 1337.1 1338.7 1340.3 1341.8 1343.4 1344.9 1346.5 1348 1349.6 1351.2 1352.7 1354.3 1355.9 1357.4 1359 1360.6 1362.1 1363.7 1365.3 1366.8 1368.4 1369.9 1371.5 1373 1374.6 1376.2 1377.7 1379.3 1380.9 1382.4 1384 1385.6 1387.1 1388.7 1390.3 1391.8 1393.4 1394.9 1396.5 1398 1399.6 1401.2 1402.7 1404.3 1405.9 1407.4 1409 1410.6 1412.1 1413.7 1415.3 1416.8 1418.4 1419.9 1421.5 1423 1424.6 1426.2 1427.7 1429.3 1430.9 1432.4 1434 1435.6 1437.1 1438.7 1440.3 1441.8 1443.4 1444.9 1446.5 1448 1449.6 1451.2 1452.7 1454.3 1455.9 1457.4 1459 1460.6 1462.1 1463.7 1465.3 1466.8 1468.4 1469.9 1471.5 1473 1474.6 1476.2 1477.7 1479.3 1480.9 1482.4 1484 1485.6 1487.1 1488.7 1490.3 1491.8 1493.4 1494.9 1496.5 1498 1499.6 1501.2 1502.7 1504.3 1505.9 1507.4 1509 1510.6 1512.1 1513.7 1515.3 1516.8 1518.4 1519.9 1521.5 1523 1524.6 1526.2 1527.7 1529.3 1530.9 1532.4 1534 1535.6 1537.1 1538.7 1540.3 1541.8 1543.4 1544.9 1546.5 1548 1549.6 1551.2 1552.7 1554.3 1555.9 1557.4 1559 1560.6 1562.1 1563.7 1565.3 1566.8 1568.4 1569.9 1571.5 1573 1574.6 1576.2 1577.7 1579.3 1580.9 1582.4 1584 1585.6 1587.1 1588.7 1590.3 1591.8 1593.4 1594.9 1596.5 1598 1599.6 1601.2 1602.7 1604.3 1605.9 1607.4 1609 1610.6 1612.1 1613.7 1615.3 1616.8 1618.4 1619.9 1621.5 1623 1624.6 1626.2 1627.7 1629.3 1630.9 1632.4 1634 1635.6 1637.1 1638.7 1640.3 1641.8 1643.4 1644.9 1646.5 1648 1649.6 1651.2 1652.7 1654.3 1655.9 1657.4 1659 1660.6 1662.1 1663.7 1665.3 1666.8 1668.4 1669.9 1671.5 1673 1674.6 1676.2 1677.7 1679.3 1680.9 1682.4 1684 1685.6 1687.1 1688.7 1690.3 1691.8 1693.4 1694.9 1696.5 1698 1699.6 1701.2 1702.7 1704.3 1705.9 1707.4 1709 1710.6 1712.1 1713.7 1715.3 1716.8 1718.4 1719.9 1721.5 1723 1724.6 1726.2 1727.7 1729.3 1730.9 1732.4 1734 1735.6 1737.1 1738.7 1740.3 1741.8 1743.4 1744.9 1746.5 1748 1749.6 1751.2 1752.7 1754.3 1755.9 1757.4 1759 1760.6 1762.1 1763.7 1765.3 1766.8 1768.4 1769.9 1771.5 1773 1774.6 1776.2 1777.7 1779.3 1780.9 1782.4 1784 1785.6 1787.1 1788.7 1790.3 1791.8 1793.4 1794.9 1796.5 1798 1799.6 1801.2 1802.7 1804.3 1805.9 1807.4 1809 1810.6 1812.1 1813.7 1815.3 1816.8 1818.4 1819.9 1821.5 1823 1824.6 1826.2 1827.7 1829.3 1830.9 1832.4 1834 1835.6 1837.1 1838.7 1840.3 1841.8 1843.4 1844.9 1846.5 1848 1849.6 1851.2 1852.7 1854.3 1855.9 1857.4 1859 1860.6 1862.1 1863.7 1865.3 1866.8 1868.4 1869.9 1871.5 1873 1874.6 1876.2 1877.7 1879.3 1880.9 1882.4 1884 1885.6 1887.1 1888.7 1890.3 1891.8 1893.4 1894.9 1896.5 1898 1899.6 1901.2 1902.7 1904.3 1905.9 1907.4 1909 1910.6 1912.1 1913.7 1915.3 1916.8 1918.4 1919.9 1921.5 1923 1924.6 1926.2 1927.7 1929.3 1930.9 1932.4 1934 1935.6 1937.1 1938.7 1940.3 1941.8 1943.4 1944.9 1946.5 1948 1949.6 1951.2 1952.7 1954.3 1955.9 1957.4 1959 1960.6 1962.1 1963.7 1965.3 1966.8 1968.4 1969.9 1971.5 1973 1974.6 1976.2 1977.7 1979.3 1980.9 1982.4 1984 1985.6 1987.1 1988.7 1990.3 1991.8 1993.4 1994.9 1996.5 1998 1999.6 2001.2 2002.7 2004.3 2005.9 2007.4 2009 2010.6 2012.1 2013.7 2015.3 2016.8 2018.4 2019.9 2021.5 2023 2024.6 2026.2 2027.7 2029.3 2030.9 2032.4 2034 2035.6 2037.1 2038.7 2040.3 2041.8 2043.4 2044.9 2046.5 2048 2049.6 2051.2 2052.7 2054.3 2055.9 2057.4 2059 2060.6 2062.1 2063.7 2065.3 2066.8 2068.4 2069.9 2071.5 2073 2074.6 2076.2 2077.7 2079.3 2080.9 2082.4 2084 2085.6 2087.1 2088.7 2090.3 2091.8 2093.4 2094.9 2096.5 2098 2099.6 2101.2 2102.7 2104.3 2105.9 2107.4 2109 2110.6 2112.1 2113.7 2115.3 2116.8 2118.4 2119.9 2121.5 2123 2124.6 2126.2 2127.7 2129.3 2130.9 2132.4 2134 2135.6 2137.1 2138.7 2140.3 2141.8 2143.4 2144.9 2146.5 2148 2149.6 2151.2 2152.7 2154.3 2155.9 2157.4 2159 2160.6 2162.1 2163.7 2165.3 2166.8 2168.4 2169.9 2171.5 2173 2174.6 2176.2 2177.7 2179.3 2180.9 2182.4 2184 2185.6 2187.1 2188.7 2190.3 2191.8 2193.4 2194.9 2196.5 2198 2199.6 2201.2 2202.7 2204.3 2205.9 2207.4 2209 2210.6 2212.1 2213.7 2215.3 2216.8 2218.4 2219.9 2221.5 2223 2224.6 2226.2 2227.7 2229.3 2230.9 2232.4 2234 2235.6 2237.1 2238.7 2240.3 2241.8 2243.4 2244.9 2246.5 2248 2249.6 2251.2 2252.7 2254.3 2255.9 2257.4 2259 2260.6 2262.1 2263.7 2265.3 2266.8 2268.4 2269.9 2271.5 2273 2274.6 2276.2 2277.7 2279.3 2280.9 2282.4 2284 2285.6 2287.1 2288.7 2290.3 2291.8 2293.4 2294.9 2296.5 2298 2299.6 2301.2 2302.7 2304.3 2305.9 2307.4 2309 2310.6 2312.1 2313.7 2315.3 2316.8 2318.4 2319.9 2321.5 2323 2324.6 2326.2 2327.7 2329.3 2330.9 2332.4 2334 2335.6 2337.1 2338.7 2340.3 2341.8 2343.4 2344.9 2346.5 2348 2349.6 2351.2 2352.7 2354.3 2355.9 2357.4 2359 2360.6 2362.1 2363.7 2365.3 2366.8 2368.4 2369.9 2371.5 2373 2374.6 2376.2 2377.7 2379.3 2380.9 2382.4 2384 2385.6 2387.1 2388.7 2390.3 2391.8 2393.4 2394.9 2396.5 2398 2399.6 2401.2 2402.7 2404.3 2405.9 2407.4 2409 2410.6 2412.1 2413.7 2415.3 2416.8 2418.4 2419.9 2421.5 2423 2424.6 2426.2 2427.7 2429.3 2430.9 2432.4 2434 2435.6 2437.1 2438.7 2440.3 2441.8 2443.4 2444.9 2446.5 2448 2449.6 2451.2 2452.7 2454.3 2455.9 2457.4 2459 2460.6 2462.1 2463.7 2465.3 2466.8 2468.4 2469.9 2471.5 2473 2474.6 2476.2 2477.7 2479.3 2480.9 2482.4 2484 2485.6 2487.1 2488.7 2490.3 2491.8 2493.4 2494.9 2496.5 2498 2499.6 2501.2 2502.7 2504.3 2505.9 2507.4 2509 2510.6 2512.1 2513.7 2515.3 2516.8 2518.4 2519.9 2521.5 2523 2524.6 2526.2 2527.7 2529.3 2530.9 2532.4 2534 2535.6 2537.1 2538.7 2540.3 2541.8 2543.4 2544.9 2546.5 2548 2549.6 2551.2 2552.7 2554.3 2555.9 2557.4 2559 2560.6 2562.1 2563.7 2565.3 2566.8 2568.4 2569.9 2571.5 2573 2574.6 2576.2 2577.7 2579.3 2580.9 2582.4 2584 2585.6 2587.1 2588.7 2590.3 2591.8 2593.4 2594.9 2596.5 2598 2599.6 2601.2 2602.7 2604.3 2605.9 2607.4 2609 2610.6 2612.1 2613.7 2615.3 2616.8 2618.4 2619.9 2621.5 2623 2624.6 2626.2 2627.7 2629.3 2630.9 2632.4 2634 2635.6 2637.1 2638.7 2640.3 2641.8 2643.4 2644.9 2646.5 2648 2649.6 2651.2 2652.7 2654.3 2655.9 2657.4 2659 2660.6 2662.1 2663.7 2665.3 2666.8 2668.4 2669.9 2671.5 2673 2674.6 2676.2 2677.7 2679.3 2680.9 2682.4 2684 2685.6 2687.1 2688.7 2690.3 2691.8 2693.4 2694.9 2696.5 2698 2699.6 2701.2 2702.7 2704.3 2705.9 2707.4 2709 2710.6 2712.1 2713.7 2715.3 2716.8 2718.4 2719.9 2721.5 2723 2724.6 2726.2 2727.7 2729.3 2730.9 2732.4 2734 2735.6 2737.1 2738.7 2740.3 2741.8 2743.4 2744.9 2746.5 2748 2749.6 2751.2 2752.7 2754.3 2755.9 2757.4 2759 2760.6 2762.1 2763.7 2765.3 2766.8 2768.4 2769.9 2771.5 2773 2774.6 2776.2 2777.7 2779.3 2780.9 2782.4 2784 2785.6 2 | | | | | | | | | | | | | | | | | | | | | | |

Chapter 9, Table 2, Pages 226-227

| | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|
| 250 | 9.4 | 10.9 | 12.5 | 14.1 | 15.6 | 17.2 | 18.8 | 20.3 | 21.9 | 23.4 |
| 255 | 9.7 | 11.3 | 12.8 | 14.4 | 15.9 | 17.5 | 19.1 | 20.6 | 22.2 | 23.8 |
| 260 | 10 | 11.6 | 13.1 | 14.7 | 16.3 | 17.8 | 19.4 | 20.9 | 22.5 | 24.1 |
| 265 | 10.3 | 11.9 | 13.4 | 15 | 16.6 | 18.1 | 19.7 | 21.3 | 22.8 | 24.4 |
| 270 | 10.6 | 12.2 | 13.8 | 15.3 | 16.9 | 18.4 | 20 | 21.6 | 23.1 | 24.7 |
| 275 | 10.9 | 12.5 | 14.1 | 15.6 | 17.2 | 18.8 | 20.3 | 21.9 | 23.4 | 25 |
| 280 | 11.3 | 12.8 | 14.4 | 15.9 | 17.5 | 19.1 | 20.6 | 22.2 | 23.8 | 25.3 |
| 285 | 11.6 | 13.1 | 14.7 | 16.3 | 17.8 | 19.4 | 20.9 | 22.5 | 24.1 | 25.6 |
| 290 | 11.9 | 13.4 | 15 | 16.6 | 18.1 | 19.7 | 21.3 | 22.8 | 24.4 | 25.9 |
| 295 | 12.2 | 13.8 | 15.3 | 16.9 | 18.4 | 20 | 21.6 | 23.1 | 24.7 | 26.3 |
| 300 | 12.5 | 14.1 | 15.6 | 17.2 | 18.8 | 20.3 | 21.9 | 23.4 | 25 | 26.6 |
| 305 | 12.8 | 14.4 | 15.9 | 17.5 | 19.1 | 20.6 | 22.2 | 23.8 | 25.3 | 26.9 |
| 310 | 13.1 | 14.7 | 16.3 | 17.8 | 19.4 | 20.9 | 22.5 | 24.1 | 25.6 | 27.2 |
| 315 | 13.4 | 15 | 16.6 | 18.1 | 19.7 | 21.3 | 22.8 | 24.4 | 25.9 | 27.5 |
| 320 | 13.8 | 15.3 | 16.9 | 18.4 | 20 | 21.6 | 23.1 | 24.7 | 26.3 | 27.8 |
| 325 | 14.1 | 15.6 | 17.2 | 18.8 | 20.3 | 21.9 | 23.4 | 25 | 26.6 | 28.1 |
| 330 | 14.4 | 15.9 | 17.5 | 19.1 | 20.6 | 22.2 | 23.8 | 25.3 | 26.9 | 28.4 |
| 335 | 14.7 | 16.3 | 17.8 | 19.4 | 20.9 | 22.5 | 24.1 | 25.6 | 27.2 | 28.8 |
| 340 | 15 | 16.6 | 18.1 | 19.7 | 21.3 | 22.8 | 24.4 | 25.9 | 27.5 | 29.1 |
| 345 | 15.3 | 16.9 | 18.4 | 20 | 21.6 | 23.1 | 24.7 | 26.3 | 27.8 | 29.4 |
| 350 | 15.6 | 17.2 | 18.8 | 20.3 | 21.9 | 23.4 | 25 | 26.6 | 28.1 | 29.7 |
| 355 | 15.9 | 17.5 | 19.1 | 20.6 | 22.2 | 23.8 | 25.3 | 26.9 | 28.4 | 30 |
| 360 | 16.3 | 17.8 | 19.4 | 20.9 | 22.5 | 24.1 | 25.6 | 27.2 | 28.8 | 30.3 |
| 365 | 16.6 | 18.1 | 19.7 | 21.3 | 22.8 | 24.4 | 25.9 | 27.5 | 29.1 | 30.6 |
| 368 | 16.8 | 18.3 | 19.9 | 21.4 | 23 | 24.6 | 26.2 | 27.7 | 29.3 | 30.8 |
| ANSI 1969 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 |

At the intersection of the row for the worse ear and the column for the better ear is the hearing impairment (%).



68

Better ear

TDI Division of Workers' Compensation

Table 2 for Worst Ear 340 and Best Ear 100 = **15% binaural loss.**

BUT WAIT, we are not done!

Chapter 9, Table 3, Page

Table 3. Relationship of Binaural Hearing Impairment to Impairment of the Whole Person.

| % Binaural hearing impairment | % Impairment of the whole person | % Binaural hearing impairment | % Impairment of the whole person |
|-------------------------------|----------------------------------|-------------------------------|----------------------------------|
| 0 - 1.7 | 0 | 50.0 - 53.1 | 18 |
| 1.8 - 4.2 | 1 | 54.2 - 55.7 | 19 |
| 4.3 - 7.4 | 2 | 55.8 - 58.8 | 20 |
| 7.5 - 9.9 | 3 | 58.9 - 61.4 | 21 |
| 10.0 - 13.1 | 4 | 61.5 - 64.5 | 22 |
| 13.2 - 15.9 | 5 | 64.6 - 67.1 | 23 |
| 16.0 - 18.8 | 6 | 67.2 - 70.0 | 24 |
| 18.9 - 21.4 | 7 | 70.1 - 72.8 | 25 |
| 21.5 - 24.5 | 8 | 72.9 - 75.9 | 26 |
| 24.6 - 27.1 | 9 | 76.0 - 78.5 | 27 |
| 27.2 - 30.0 | 10 | 78.6 - 81.7 | 28 |
| 30.1 - 32.8 | 11 | 81.8 - 84.2 | 29 |
| 32.9 - 35.9 | 12 | 84.3 - 87.4 | 30 |
| 36.0 - 38.5 | 13 | 87.5 - 89.9 | 31 |
| 38.6 - 41.7 | 14 | 90.0 - 93.1 | 32 |
| 41.8 - 44.2 | 15 | 93.2 - 95.7 | 33 |
| 44.3 - 47.4 | 16 | 95.8 - 98.8 | 34 |
| 47.5 - 49.9 | 17 | 98.9 - 100.0 | 35 |

Table 3 conversion of 15% Loss of binaural hearing system to WP = 5% WP

Case 3 – Hearing (chapter 9)

- Table 1 for DSHL of 340 = 90.0 % monaural loss.
- BUT can SKIP to **Table 2**
And CALCULATE
Best Ear 100 DSHL
Worst Ear 340 DSHL
- **Table 2 - Best to Worst Ear Binaural = 15 % WP**
- **Table 3 - Hearing loss to WP = 5% WP**




Table 1 for Right ear DSHL of 100 = 0 % monaural loss

Table 1 for Left ear DSHL of 340 = 90% monaural loss

Table 2 for Worst Ear 340 combined with Best Ear 100 = 15 % binaural loss

Table 3 conversion 15% to WP = 5 % WP



Case 3 - Hearing (chapter 9)
SUMMARY

What about TINNITUS?

- Per page 224, "Tinnitus in the presence of unilateral or bilateral hearing loss may impair speech discrimination; therefore, an impairment percentage up to 5 % may be ADDED to the impairment for hearing loss"

Answer: 5 % WP plus 1 % - 5% for tinnitus = 16 - 10% WP

EXPLAIN and DEFEND your answer.

Remember that tinnitus is subjective and you cannot verify.

Therefore the percent you pick should be consistent with the type of injury and severity of hearing loss.


Unlikely to have 5 % for tinnitus in the face of low grade hearing loss.

Case 3 - Hearing (chapter 9)
SUMMARY

What about TINNITUS?

The injured employee is adamant that they have constant tinnitus of a severe degree. There is a loss of the hearing system of 1 % WP. You should assign 3 – 5 % WP for the TINNITUS.

- 1. True**
- 2. False**



Remember that tinnitus is subjective and you cannot verify.

Therefore the percent you pick should be consistent with the type of injury and severity of hearing loss.

Unlikely to have 5 % for tinnitus in the face of low grade hearing loss.

Correct answer is FALSE.

Questions about Case 3?



Case 4 – Burn (Skin - Chapter 13)

- Injured employee sustained severe burn to distal right anterior thigh, over the knee
- Grafted with intermittent cracking of grafted area.
- Normal ambulation not affected, but limits squatting, and other activities with flexion of the knee; some ADLs limited as a result

Case 4 – Burn (Skin - Chapter 13)

- Requires use of topical cream several times a day
- No other intensive or ongoing treatment
- Knee ROM
 - flexion $<80^{\circ}$ (active and passive consistent)
 - extension 0°
- The skin on the anterior knee is taunt at $<80^{\circ}$

Case 4 – Burn (Chapter 13)

On date of MMI, what
is whole person IR?

- A. 27%
- B. 24%
- C. 14%
- D. Range of IR percentages,
explain your answer



Case 4 – Burn (Chapter 13)

- Table 2, pg. 280
- Based on effect on ADLS
- IR accrues from limited ROM, combine knee ROM WP impairment with skin WP impairment
- Discrepancies between Table 2, and text in Section 13.7, pages 281-289

Case 4 – Burn (Chapter 13)

Class 2, Table 2, pg. 280

- 10% to 24% WP
(10%-25% in text pg. 282)
- Signs/symptoms present or intermittently present
- AND Some limitation of ADLs
- AND Intermittent to constant treatment may be required



Case 4 – Burn (Chapter 13)

Table 2, Page 280




Table 2. Impairment Classes and Percents for Skin Disorders*

| Class 1: 0%-9% impairment | Class 2: 10%-24% impairment | Class 3: 25%-54% impairment | Class 4: 55%-84% impairment | Class 5: 85%-95% impairment |
|---|---|---|---|---|
| Signs and symptoms of skin disorder are present or only intermittently present; and There is no limitation or limitation in the performance of <i>few</i> activities of daily living, although exposure to certain chemical or physical agents might increase limitation temporarily; and No treatment or intermittent treatment is required. | Signs and symptoms of skin disorder are present or intermittently present; and There is limitation in the performance of <i>some</i> of the activities of daily living; and Intermittent to constant treatment may be required. | Signs and symptoms of skin disorder are present or intermittently present; and There is limitation in the performance of <i>many</i> of the activities of daily living; and Intermittent to constant treatment may be required. | Signs and symptoms of skin disorder are <i>constantly</i> present; and There is limitation in the performance of <i>many</i> of the activities of daily living that may include intermittent confinement at home or other domicile; and Intermittent to constant treatment may be required. | Signs and symptoms of skin disorder are <i>constantly</i> present; and There is limitation in the performance of <i>most</i> of the activities of daily living, including occasional to constant confinement at home or other domicile; and Intermittent to constant treatment may be required. |

*The signs and symptoms of disorders in classes 1 and 2 may be intermittent and not present at the time of examination. The impact of the skin disorder on daily activities should be the primary consideration in determining the class of impairment. The frequency and intensity of signs and symptoms and the frequency and complexity of medical treatment should guide the selection of an appropriate impairment percentage and estimate within any class (see chapter introduction).

As per the Footnote on Table 2:

The SIGNS and SYMPTOMS of disorders in Class 1 and 2 may be intermittent and not present at the time of examination.

The impact of the skin disorder on ADLs should be the primary consideration in determining the CLASS of impairment.

The FREQUENCY and INTENSITY of SIGNS (objective) and symptoms (subjective) and the FREQUENCY and COMPLEXITY of meds and treatment should guide the selection of an appropriate impairment percentage and estimate within any class.

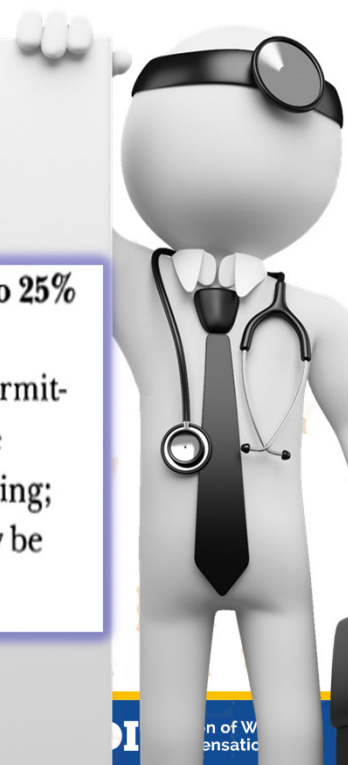
PLEASE USE THE EXAMPLES to GUIDE your decision process.

Case 4 – Burn (Chapter 13)

Class 2, Page 282

Class 2: Impairment of the Whole Person, 10% to 25%

A person belongs in class 2 when (1) signs and symptoms of a skin disorder are present or intermittently present; *and* (2) there is limitation in the performance of *some* of the activities of daily living; *and* (3) intermittent to constant treatment may be required.



Case 4 – Burn (Chapter 13)

Table 41, Knee Impairments,
pg. 78

- Flexion $<80^{\circ}$ = 8% WP
- Extension 0° = 0% WP
- **Total knee ROM = 8% WP**



Case 4 – Burn (Chapter 13)

Here is the RANGE

Combine

- skin 10% WP with
- knee ROM 8% WP
- = 17% WP

Combine:

- skin 24%(25%) WP with
- knee ROM 8%
- = 30% (31%) WP
- **IR = 17% to 30% (31%) WP**



Case 4 – Burn (Chapter 13)

Different TYPES of BURNS are associated with different types of complications;

- **Thermal Burns / Fire Associated**

- Involvement of the tendons, muscles and bone underlying the skin
- Potential Smoke inhalation with pulmonary damage
- Rhabdomyolysis with kidney damage
- Anoxic damage
- Heterotopic Ossification at sites different to the burn if large TBSA

Case 4 – Burn (Chapter 13)

Different TYPES of BURNS are associated with different types of complications;

- **Electrocution:**

- Entrance and exit wounds and possible neurologic injury.
- Asystole with anoxic encephalopathy (extreme)

Case 4 – Burn (Chapter 13)

In assessing a BURN injury, rely solely upon Chapter 13 for the SKIN

1. True
2. False

Correct answer is FALSE

Questions about Non-MSK MMI/IR Case 4?



Case 5 – Hernia (Digestive System – Chapter 10)

- IE sustained ventral and left inguinal hernias while working
- Underwent ventral hernia repair and left inguinal hernia repair, both with mesh
- At MMI no palpable defect in either surgical site

Case 5 – Hernia (Chapter 10)

- With increased pressure maneuvers including Valsalva, coughing, and lifting head up while supine, slight protrusions in inguinal canal and abdominal hernia repair which were reducible
- Returned to work in warehouse lifting more than 50 pounds occasionally

Case 5 – Hernia (Chapter 10)

Question for DD:

On MMI date, what is whole person IR?

- A. 0%
- B. 5%
- C. 15%
- D. 25%



Case 5 – Hernia (Chapter 10)

Table 7. Classes of Hernia-related Impairment.

| Class 1: 0%-9% impairment of the whole person | Class 2: 10%-19% impairment of the whole person | Class 3: 20%-30% impairment of the whole person |
|---|--|---|
| Palpable defect in supporting structures of abdominal wall; | Palpable defect in supporting structures of abdominal wall; | Palpable defect in supporting structures of abdominal wall; |
| and Slight protrusion at site of defect with increased abdominal pressure; readily reducible; | and Frequent or persistent protrusion at site of defect with increased abdominal pressure; manually reducible; | and Persistent, irreducible, or irreparable protrusion at site of defect; |
| or Occasional mild discomfort at site of defect, but not precluding normal activity. | or Frequent discomfort, precluding heavy lifting, but not hampering normal activity. | and Limitation in normal activity. |

Criteria for ALL 3 CLASSES of HERNIA

Requires PALPABLE DEFECT in SUPPORTING STRUCTURES of the ABDOMINAL WALL.

Generally will not be possible with mesh. CHECK THE OP NOTE. The IE MAY NOT be aware

WHAT IF, AS IN THIS CASE, THERE IS NOT A PALPABLE DEFECT?

EVEN IF SLIGHT PROTRUSION or discomfort,

THAT DOES NOT meet the criteria for any of the classes in the table.

Case 5 – Hernia (Chapter 10)

APD 072253-s

To assess impairment for hernia-related injury under Table 7 "Classes of Hernia-related Impairment", page 10/247 of Guides 4th Edition, there must be a palpable defect in the supporting structures of the abdominal wall.

Best Practice - If there is no palpable defect do not use Table 7. Provide 0% IR for the hernia, instead of "no impairment".


APD 211351

Be consistent on the DWC-069 and your narrative report.

When there is no-palpable defect at MMI, Table 7 cannot be used.

Best Practice is to provide 0% IR for the hernia, instead of "no impairment".

Consistency between the DWC 69 and the narrative report is addressed in APD 211351. (use percents of impairment on both)



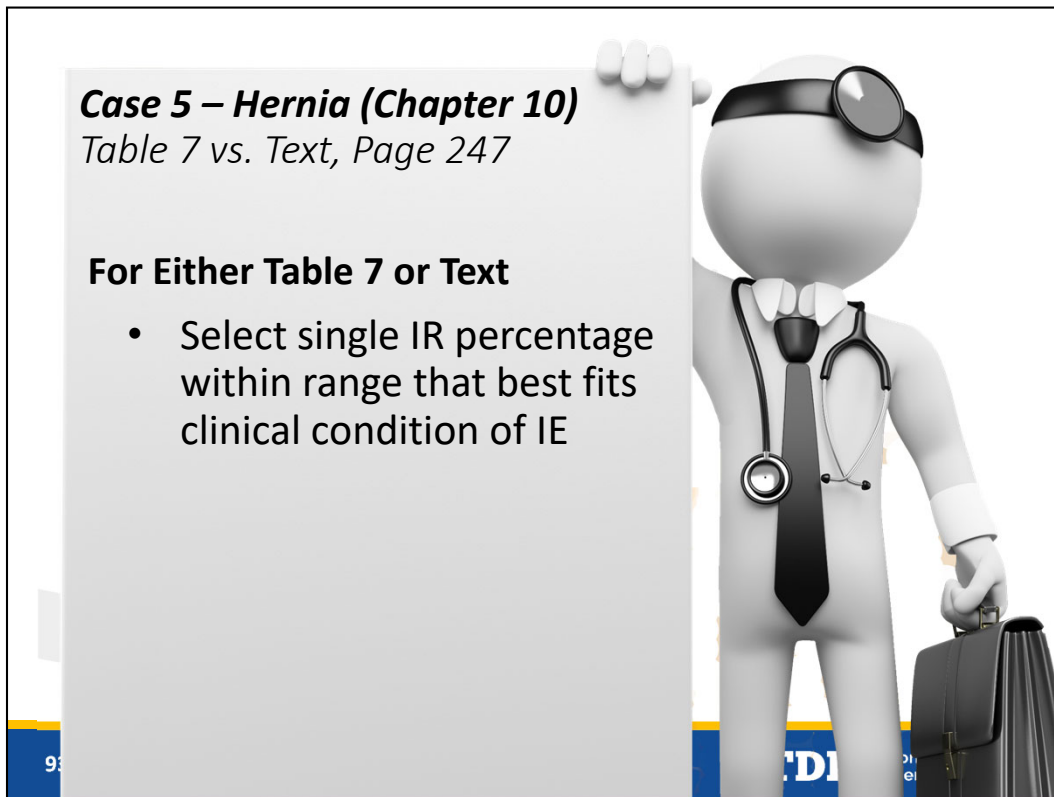
Case 5 – Hernia (Chapter 10)
Table 7 vs. Text, Page 247

- Table 7
 - Class 1 = 0% - 9%
 - Class 2 = 10% -19%
 - Class 3 = 20% - 30%

vs.

- Text
 - Class 1 Impairment of whole person 0 to10%
 - Class 2 Impairment of whole person 10 to 20%
 - Class 3 Impairment of whole person 20 to 30%

Note the discrepancy between Table 7 and the TEXT.
In text, 10 % overlaps Class One and Class two, so might be best NOT to use.
20 % overlaps Class 2 and Class 3, so might be best NOT to use.



USE the ADL Table to assist you in making a decision AND defending your decision.

Case 5 – Hernia (Chapter 10)

REMEMBER: There are some additional conditions that may accrue impairment with hernias

Table 24 on 152

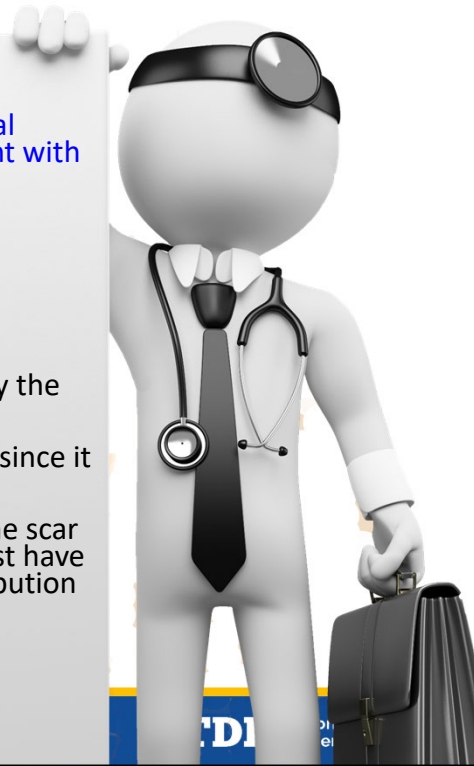
Ilioinguinal or Iliohypogastric Nerves.

See Figure 59 on page 93 for nerve distribution.

- Take the MAX VALUE and multiply by the Grade from Table 20 page 151.
- COMBINE with the IR for the hernia since it is a different organ system.
- Numbness or pain over or around the scar DOES NOT accrue impairment. Must have altered sensation in the nerve distribution distal to the surgical scar.

See Figure 59 on page 93.

This also applies to Chapter 13!



USE the ADL Table to assist you in making a decision AND defending your decision.

Case 5 – Hernia (Chapter 10)

The claimant has a right **INGUINAL** and a left **INGUINAL** Hernia accepted as compensable diagnoses.

Due to morbid obesity, the mesh repair was not effective.

The right inguinal hernia rated a Class 2 and the left inguinal hernia rated a Class 3.

You would combine the Class 2 and Class 3 impairment for the hernias.

1. True
2. False

Correct answer is FALSE

Questions about Non-MSK MMI/IR Case 5?



Questions?



Non-MSK

You will find more complete discussion of some of the NON-MSK Chapters along with pearls related to other Chapters in the PDF for the NON-MSK section of the Certification Course.

Thank you