

## Optometry and Systemic Disease

The following diseases have important eye findings that can be detected during a comprehensive eye examination at the various life stages, as indicated below. **Life Stages (LS):**

- A. Infants and Toddlers
- B. Children
- C. Adolescents
- D. Young Adults
- E. Older Adults and Seniors

### Systemic Diseases and Conditions *Most to Least Common:* (ICD-9-CM Codes)

1. Diabetes (250-259) (Type 1, Type 2)
2. Hypertension (401) LS/ C,D,E
3. Arteriosclerosis/Hardening of the Arteries (440.9) LS/D,E
4. Vessel Occlusive Diseases (430-438) (440) LS/D,E
5. Herpes Simplex (054.4) LS/ A,B,C,D,E
6. Raised Intracranial Pressure LS/ A,B,C,D,E
7. Sjögren's Syndrome (710.2) LS/D,E
8. Chlamydia / Adult Inclusion/ TRIC (099.5) LS/A,C,D,E
9. Migraine (346) LS/B,C,D,E
10. Thyroid Dysfunction (242.0) LS/ C,D,E
11. Hyperviscosity Blood Syndromes
12. Rheumatoid Arthritis (714) LS/ D/E
13. Dermatitis Atopic (691) LS/A,B,C,D,E
14. Acne Rosacea (695.3) LS D,E
15. Keratoconjunctivitis (phlyctenular) (370.31)
16. Influenza (487) LS/A,B,C,D,E
17. Herpes Zoster (053.2) LS/ D,E
18. Pre-Diabetes/ IFG/ IGT) LS/ B,C,D,E
19. Psoriatic Arthritis (716.9) LS/D,E
20. Gout (274.8) LS/E
21. Sinusitis Chronic (473.0) LS/C,D,E
22. Pituitary Tumors (194.3) LS/C,D,E
23. Sarcoidosis (135.0) LS/D,E
24. Ankylosing Spondylitis (720) LS/ D,E
25. Juvenile Rheumatoid Arthritis LS/B,C,D,E
26. Meningitis (320) (321) LS/ A,B,C,D,E
27. HIV-AIDS (042.0) LS/A,B,C,D,E
28. Gonorrhoea (098.0) (098.4) LS/A,C,D,E
29. Syphilis (090.0) (091.5) LS/A,C,D,E
30. Systemic Lupus ( 710.0) LS/D,E
31. Scleroderma (710.1) LS/D,E
32. Reiter's Syndrome (099.3) LS/E
33. Sturge-Weber Syndrome (759.6) LS/A,B,C,D,E
34. Neurofibromatosis LS/A,B,C,D,E
35. Myasthenia Gravis (358.00) LS/C,D,E
36. Marfans Syndrome (090.49) LS/A,B,C,D,E
37. Down's Syndrome (758) LS/A,B,C
38. Behcet's Disease (136.1) LS/D,E
39. Usher's Syndrome LS/ A,B,C,D,E
40. Crohn's Disease (555.9) LS/ D,E
41. Pseudoxanthoma Elasticum LS/ D,E
42. Stevens-Johnson Syndrome (695.1) LS/C,D,E
43. Albinism (270.2) LS/A,B,C,D,E

44. Anemias (280-289) LS/ A,B,C,D,E
45. Nerve Diseases and Palsies (350-359) (Third, Fourth, Sixth, Seventh) LS/ D,E
46. Leukaemias (200-208) LS/A,B,C,D,E
47. Other Cancers ( 190.0) (216.1) (224.0) LS/A,B,C,D,E
48. Tuberculosis (017.3) LS/B,C,D,E
49. Measles (055.7) LS/A,B,C,D,E
50. Rubella (056.0) LS/A,B,C,D,E
51. Rubella (056.00) LS/A,B
52. Vitamin A Deficiency (268) LS/ B,C,D,E
53. Hepatitis (571) LS/B,C,D,E
54. Multiple Sclerosis (340) LS/ C,D,E

**Environmental Exposures *Most to Least Common*:**

1. Histoplasmosis (115.90) (115.92) LS/A,B,C,D,E
2. Toxoplasmosis (130.1) (130.2) (130.9) LS/A,B,C,D,E
3. Toxocariasis (Dog Round Worm) (128.0) LS/A,B,C,D,E
4. Toxic Maculopathies ( Plaquenil and other drugs) (362.55) LS/A,B,C,D,E
5. Toxic Amblyopia (377.34) (Alcohol, drugs, environmental toxins) LS/A,B,C,D,E
6. Toxic Cataracts (Environmental Exposure to Lead, Drugs including corticosteroids and others) (366.45) LS/D,E
7. Wilsons Disease ( Copper) (275.1) LS/D,E

In all, access to a comprehensive eye examination may provide earlier detection, timelier treatments and reduced disabilities and deaths for a number of diseases and disorders that disproportionately burden vulnerable populations. This list may also reflect enhanced disease prevention opportunities if individuals engage in certain behaviors that have been linked to items on this list. As an example, cigarette smoking, use of other tobacco products, engaging in unprotected sex, the excessive use of alcohol, IV drug use, excess UV exposure, repeated use of certain drugs or drug combinations, provide additional opportunities for patient education and council.