



AMERICAN OPTOMETRIC ASSOCIATION

Systemic Conditions with Ocular and Visual Manifestations

A partial listing of systemic diseases whose ocular signs or symptoms may be reported or diagnosed during a comprehensive eye and vision examination.

Systemic Conditions with Ocular and Visual Manifestations

Many systemic diseases have ocular signs or symptoms that may be reported or diagnosed during a comprehensive eye and vision examination. Changes in the eye often precede or occur concurrently with various systemic conditions and can represent important prognostic indications of disease progression. Therefore, a comprehensive eye and vision examination can lead to earlier diagnosis and treatment of systemic conditions resulting in better patient care, avoidance of complications, and reduced health care costs.

The following is a listing of many of the systemic conditions, which may produce ocular manifestations.

1. Acne Rosacea
2. Acquired immune deficiency syndrome
3. Acromegaly
4. Adrenoleukodystrophy
5. Aicardi syndrome
6. Alagille syndrome (arteriohepatic dysplasia)
7. Albinism
8. Alkaptonuria
9. Alport syndrome
10. Alstrom syndrome
11. Anemias
12. Ankylosing Spondylitis
13. Antiphospholipid antibody syndrome
14. Apert syndrome
15. Arteriolosclerosis/Hardening of the Arteries
16. Asthma
17. Atopic eczema
18. Autism Spectrum disorder
19. Bacterial endocarditis
20. Bardet-Biedl syndrome
21. Bassen-Kornzweig syndrome
22. Batten disease (neuronal ceroid lipofuscinosis)
23. Behcet's Disease
24. Behr syndrome
25. Bloch-Sulzberger syndrome (incontinentia pigmenti)
26. Canavan disease
27. Candidiasis
28. Cardiac arrhythmias
29. Carotid artery stenosis
30. Cat-eye syndrome
31. Cat-scratch fever
32. Cerebellar ataxia type I

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33. Cerebrotendinous xanthomatosis (cholesterol storage disease)
34. Cerebrovascular accident
35. Chancroid
36. Charcot-Marie-Tooth disease (personal muscle atrophy)
37. Chediak-Hogashi syndrome
38. Chlamydia / Adult Inclusion/ TRIC
39. Chronic kidney disease
40. Chronic obstructive pulmonary disease
41. Cicatricial pemphigoid
42. Cirrhosis –primary biliary
43. Coccidioidomycosis
44. Cockayne syndrome
45. Cogan syndrome
46. Cohen syndrome
47. Congestive Heart Failure
48. Cornelia de Lange syndrome
49. Coronary Artery disease
50. Cri du chat syndrome
51. Crohn's Disease
52. Crouzon syndrome
53. Cryptococcosis
54. Cushing syndrome
55. Cystinosis
56. Cytomegalovirus (congenital)
57. De Morsier syndrome (septo-optic dysplasia)
58. Dellman syndrome
59. Dementia (incl. Alzheimer's)
60. Depression
61. Dermatitis Atopic
62. Dermatitis herpetiformis
63. Dermatomyositis-Polymyositis
64. Devic disease (neuromyelitis optica)
65. Diabetes mellitus (Type 1, Type 2)
66. Down's Syndrome
67. Eaton-Lambert myasthenic syndrome
68. Edward syndrome
69. Ehlers-Danlos syndrome type 6 (ocular sclerotic)
70. Epidermolysis bullosa
71. Fabry disease
72. Farber disease
73. Fraser syndrome
74. Friedreich ataxia

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75. Frontonasal dysplasia (medial clefting syndrome)
76. Fucosidosis
77. Galactosemia
78. Garder syndrome (familial polyposis)
79. Gaucher disease
80. Giant cell arteritis
81. Gillespie syndrome
82. Golz syndrome
83. Gonorrhoea
84. Goodpasture syndrome
85. Gorlin-Golz (nevoid basal cell carcinoma) syndrome
86. Gout
87. Groenblad-Strandberg syndrome
88. Hallerman-Streiff-Francois syndrome
89. Hallervorden-Spatz syndrome
90. Hemochromatosis (primary)
91. Hepatitis
92. Hermansky-Pudlak syndrome
93. Herpes Simplex
94. Herpes Zoster
95. Hirsprung disease
96. Histiocytosis X (Langerhans cell histiocytosis)
97. Histoplasmosis
98. HIV-AIDS
99. Homocystinuria
100. Hunter syndrome (mucopolysaccharidosis II)
101. Hyperlipidemia
102. Hyperlipoproteinemia
103. Hyperlisinemia
104. Hyperornithinemia
105. Hyperparathyroidism
106. Hypertension
107. Hyperviscosity Syndromes
108. Ichthyosis (congenital)
109. IgA nephropathy
110. Influenza
111. Jeune syndrome
112. Juvenile Rheumatoid (Juvenile Chronic) Arthritis
113. Juvenile xanthogranuloma
114. Kawasaki disease (mucocutaneous lymph node syndrome)
115. Kearns-Sayre syndrome
116. Keratoconjunctivitis (phlyctenular)

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117. Klippel-Treunaunay-Weber syndrome
118. Kniest syndrome
119. Laurence-Moon syndrome
120. Lecithin-cholesterol-acyltransferase deficiency (Norum disease)
121. Lenz microphthalmos syndrome
122. Leprosy (Hansen Disease)
123. Leptospirosis
124. Leukaemias
125. Linear IgA Disease
126. Louis-Bar syndrome (ataxia telangiectasis)
127. Lowe syndrome (oculocerebrorenal syndrome)
128. Lyme Disease
129. Lymphogranuloma venereum
130. Lymphoma
131. Maffucci syndrome
132. Mannosidosis
133. Marfans Syndrome
134. Maroteaux-Lamy syndrome (MPS VI)
135. Marshall-Smith syndrome
136. McCune-Albright syndrome
137. Measles
138. Meckel-Gruber syndrome
139. Melanoma-related retinopathy
140. Membranoproliferative glomerulonephritis type II
141. Meningitis
142. Menke disease
143. Meretoja syndrome
144. Metastatic Disease
145. Migraine
146. Mixed connective tissue disease
147. Mobius syndrome
148. Morquio syndrome type IV A (MPS IV A)
149. Mucopolidosis Type I (Goldberg syndrome/sialidosis)
150. Mucopolidosis Type II (Leroy I-cell disease)
151. Mucopolidosis Type III (pseudo-Hurler polydystrophy syndrome)
152. Mucopolidosis Type IV
153. Multiple endocrine neoplasia type II (Sipple syndrome)
154. Multiple myeloma (myelomatosis)
155. Multiple Sclerosis
156. Myasthenia Gravis
157. Myotonic dystrophy
158. Mysathenia gravis

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159. Myxedema
160. Nance-Horan syndrome
161. Nerve Diseases and Palsies (Third, Fourth, Sixth, Seventh)
162. Neurofibromatosis I (von Recklinghausen disease)
163. Neurofibromatosis II
164. Nevus of Ota (oculodermal melanocytosis)
165. Niemann-Pick disease Type A
166. Niemann-Pick disease Type B
167. Niemann-Pick disease Type C
168. Niemann-Pick disease Type D
169. Niemann-Pick Disease Type E
170. Norrie disease
171. Oculopharyngeal dystrophy
172. Olivopontocerebellar atrophy type III
173. Onchocerciasis
174. Osteogenesis imperfect Type 1
175. Osteogenesis imperfect Type 2
176. Osteogenesis imperfect Type 3
177. Osteogenesis imperfect Type 4
178. Osteoporosis
179. Other Cancers
180. Oxalosis
181. Paget Disease
182. Pagon syndrome
183. Pancreatitis (acute)
184. Parry-Romberg syndrome
185. Pemphigoid
186. Pemphigus vulgaris
187. Peters-Plus syndrome
188. Pierre-Robin syndrome
189. Pituitary Tumors
190. Polyarteritis nodosa
191. Polycythemia rubra vera
192. Porphyria cutanea tarda (cutaneous hepatic porphyria)
193. Prader-Willi syndrome
194. Pre-Diabetes/ IFG/ IGT)
195. Pseudoxanthoma elasticum AD type 1
196. Pseudoxanthoma elasticum AD type 2
197. Pseudoxanthoma elasticum AR type 1
198. Pseudoxanthoma elasticum AR type 2
199. Psoriatic Arthritis
200. Raised Intracranial Pressure

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201. Refsum syndrome (heredopathia atactica polyneuritiformis)
202. Reiter's Syndrome (Reactive arthritis)
203. Relapsing polychondritis
204. Rendu-Osler-Weber syndrome (hereditary hemorrhagic telangiectasia)
205. Rheumatoid Arthritis
206. Rhinosporidiosis
207. Rieger syndrome
208. Riley-day syndrome (familial dysautonomia)
209. Rothmund-Thomson syndrome
210. Rubella
211. Rubinstein-Taybi syndrome
212. Sandhoff syndrome (Gm2 gangliosidosis type II)
213. Sanfilippo syndrome (MPS III A-D)
214. Sarcoidosis
215. Scheie syndrome (MPS I S)
216. Schizophrenia
217. Scleroderma
218. Sinusitis Chronic
219. Sjogren-Larsson syndrome
220. Sjögren's Syndrome
221. Sly syndrome (MPS VII)
222. Sporotrichosis
223. Steele-Richardson-Olszewski syndrome
224. Stevens-Johnson Syndrome (erythema multiforme major)
225. Stickler syndrome
226. Sturge-Weber Syndrome
227. Substance abuse disorders (drug & alcohol)
228. Sulphite oxidase deficiency
229. Syphilis (acquired)
230. Syphilis (congenital)
231. Syringomyelia
232. Systemic Lupus erythematosus
233. Systemic sclerosis
234. Takayasu disease
235. Tangier disease
236. Tay-Sachs disease (Gm2 gangliosidosis type 1)
237. Terson syndrome
238. Thyroid Dysfunction
239. Thyrotoxicosis
240. Torre syndrome
241. Toxic Amblyopia (Alcohol, drugs, environmental toxins)
242. Toxic Cataracts (Environmental Exposure to Lead, Drugs including corticosteroids and others)

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243. Toxic epidermal necrolysis (Lyell disease or scalded skin syndrome)
244. Toxic Maculopathies (Plaquenil and other drugs)
245. Toxocariasis (Dog Round Worm)
246. Toxoplasmosis
247. Treacher-Collins syndrome
248. Tuberculosis
249. Tuberos sclerososis (Bourneville disease)
250. Tubulointerstitial nephritis and uveitis (TINU)
251. Tularemia
252. Turgot syndrome
253. Turner syndrome
254. Tyrosinemia type II (Richner-Hanhart syndrome)
255. Ulcerative colitis
256. Usher's Syndrome
257. Varicella (congenital)
258. Vessel Occlusive Diseases
259. Vitamin A Deficiency
260. Vogt-Koyanagi-Harada syndrome
261. Von Hippel-Lindau syndrome
262. Waardenburg syndrome
263. Waldenstrom macroglobulinemia
264. Warburg syndrome
265. Wegener granulomatosis
266. Weill-Marchesani syndrome
267. Wernicke encephalopathy (Wernicke-Korsakoff syndrome)
268. Whipple disease
269. Wildervanck (cervico-oculo-acoustic) syndrome
270. Wilsons Disease (hepato-lenticular degeneration) (Copper)
271. Wolfram syndrome (DIDMOAD)
272. Xeroderma pigmentosum
273. Zellwger syndrome