# MERCK

1000 197

Of Diagnosis and Therapy

### NINETEENTH EDITION

Manual

The

Robert S. Porter, MD, Editor-in-Chief Justin L. Kaplan, MD, Senior Assistant Editor 

and Miller all and Andrews **Editorial Board** 

Richard K. Albert, MD Marjorie A. Bowman, MD, MPA and James Jeffrey Malatack, MD Glenn D. Braunstein, MD Sidney Cohen; MD Junicy Conent, MD Linda Emanuel, PhD Jan Fawcett, MD Eugene P. Frenkel, MD David A. Spain, MD Eugene P. Flenkel, MD Susan L. Hendrix, DO Michael Jacewicz, MD

Paul H. Tanser, MD Michael R. Wasserman, MD

Linger of Colligner Cardy, Card & ante, 1994: 13 (1995): 998-044, Oris, 243 1997: 14 (1995): 998-044, Oris, 243 1997: 1997: 1997: 1997 法法国际公司

的过去时间,如何在中国中的公司。

ty in a real strandfact izante (en et transition al tred scored Published by part shittin to your horizon dans to the more that to the end to the more than to the end to the end to the end to the more than to the end to th Published by MERCK SHARP & DOHME CORP., A SUBSIDIARY OF MERCK & CO., INC. Whitehouse Station, NJ 200 476 Lt. 16 7436 C. 11 Jackson (1941

2011

Age of a beauti

	roduction Staff	
Executive Editor: Ke	eryn A.G. Lane	
enior Staff Writers:	Susan T. Schindler	
	Susan C. Short	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
taff Editor: Michell	le A. Steigerwald	and the second
enior Operations M	anager: Diane C. Zenker	and star of the
,	ger: Diane Cosner Gartenmayer	
*	Publications: Michael A. DeFei	rrari. y ywang yang nawag ng pol
Executive Assistant:	• *	
Designer: Alisha We		
llustrators: Christop Michael		tan Artika ang tanggan ang tanggan ang tanggan Artika ang tanggan ang tang
	l Reingold	
ndexers: Keryn A.C Susan Tho		
Susan IIIU	511ao, 1 112	
ublisher: Gary Zell	ko	and the second
	notions Supervisor: Pamela J. Ba	arnes-Paul
	oordinator: Jeanne Nilsen	1
systems Administrate		n. Na sana mangkang kangkang sana sana sana sana sana sana sana s
•	-	홍승 집중 동안에 가지 않는 것이 없이 있다.
)	0	ipliance with strict environmental laws and hipping, a major contributor to global air
eliminates th pollution. Pri fossil fuels. T waste. Accor environment Trees Sav	e need for international freight sl inting on recycled paper helps mi The 19 <sup>th</sup> Edition of <i>The Merck M</i> rding to Environmental Defense's al benefits were achieved! ved: 609 • Air Emissions Elimin gallons • Solid Waste Eliminate <b>Planet Fr</b> • Made in • Printed GREEN • Text: 10	hipping, a major contributor to global air inimize consumption of trees, water, and <i>anual</i> uses paper with 10% post-consumer s Paper Calculator, the following nated: 57,930 pounds • Water Saved: ed: 16,939 pounds ienclly Publishing n the United States on Recycled Paper 0%
eliminates th pollution. Pri fossil fuels. T waste. Accor environment Trees Sav	e need for international freight sl inting on recycled paper helps mi The 19 <sup>th</sup> Edition of <i>The Merck M</i> rding to Environmental Defense's al benefits were achieved! ved: 609 • Air Emissions Elimin gallons • Solid Waste Eliminate <b>Planet Fr</b> • Made in • Printed GREEN • Text: 10	hipping, a major contributor to global air inimize consumption of trees, water, and <i>anual</i> uses paper with 10% post-consumer s Paper Calculator, the following nated: 57,930 pounds • Water Saved: ed: 16,939 pounds iendly Publishing n the United States on Recycled Paper
eliminates th pollution. Pri fossil fuels. T waste. Accor environment Trees Sav	e need for international freight sl inting on recycled paper helps mi The 19 <sup>th</sup> Edition of <i>The Merck M</i> rding to Environmental Defense's al benefits were achieved! ved: 609 • Air Emissions Elimin gallons • Solid Waste Eliminate <b>Planet Fr</b> • Made in • Printed GREEN • Text: 10	hipping, a major contributor to global air inimize consumption of trees, water, and <i>anual</i> uses paper with 10% post-consumer s Paper Calculator, the following nated: 57,930 pounds • Water Saved: ed: 16,939 pounds ienclly Publishing n the United States on Recycled Paper 0%
eliminates th pollution. Pri fossil fuels. T waste. Accor environment Trees Sav	e need for international freight sl inting on recycled paper helps mi The 19 <sup>th</sup> Edition of <i>The Merck M</i> rding to Environmental Defense's al benefits were achieved! ved: 609 • Air Emissions Elimin gallons • Solid Waste Eliminate <b>Planet Fr</b> • Made in • Printed GREEN • Text: 10	hipping, a major contributor to global air inimize consumption of trees, water, and <i>anual</i> uses paper with 10% post-consumer s Paper Calculator, the following nated: 57,930 pounds • Water Saved: ed: 16,939 pounds ienclly Publishing n the United States on Recycled Paper 0%
eliminates th pollution. Pri fossil fuels. T waste. Accor environment Trees Sav	e need for international freight sl inting on recycled paper helps mi The 19 <sup>th</sup> Edition of <i>The Merck M</i> rding to Environmental Defense's al benefits were achieved! ved: 609 • Air Emissions Elimin gallons • Solid Waste Eliminate <b>Planet Fr</b> • Made in • Printed GREEN • Text: 10	hipping, a major contributor to global air inimize consumption of trees, water, and <i>anual</i> uses paper with 10% post-consumer s Paper Calculator, the following nated: 57,930 pounds • Water Saved: ed: 16,939 pounds ienclly Publishing n the United States on Recycled Paper 0%

All rights reserved. No part of this book may be reproduced or used in any form or by any means, electronic or mechanical, including photocopying, or by any information storage and retrieval system, without permission in writing from the Publisher. Inquiries should be addressed to The Merck Manuals Department, P.O. Box 4, Merck & Co., Inc., West Point, PA 19486.

Printed in the USA.

RM

LA

D

Α

Contents		zobsoł wił si	
TAB from NO. TAB		yyaq qefta a shi shira a ta saara	
公共 1947年1月1日日 - 1947年1月1日 1953年1月1日日日 - 1956年1月1日日 1957年1月1日日 - 1958年1月1日日	Guide for Readers which by	laddolog water en jord te Ned Fowning of an en orderen.	
	Abbreviations	ozi oli esiti kete ortalazza elore il rasifia Toto	ix
	Editors and Editorial Board	er ann an e se cean à traibheil	
11. A.B. 1994	Consultants	yeahis tar h ga se a aned?.	xiii
Millie autora pro	Contributors		xv
with Coloris and Solar The Coloris	n fers stadive son is in finskipe en st F	arres stekatiera ar an angeleta sera sa a sa konstanta karina	i vjera Naslati
NUT 1	Nutritional Disorders		1
GD 2	Gastrointestinal Disorders	สมัญชาติสินสารรถการเสียงได้ การสารให้เป็นการเราะในปฏิการประเทศ	67
HEP 3	Hepatic and Biliary Disorde	and the second	203
MUS 4	Musculoskeletal and Conne	그는 것 동안 가지요. 이 것 같아요. 지수는 것 못했다. 이 가지 않는 것 같아?	281
ENT 5	Ear, Nose, Throat, and Dent	al Disorders	411
EYE) 6	Eye Disorders	Carrierado, en en en La Streise	535
SKN strob 7 tak	Dermatologic Disorders	Next Heat a constraint Destration	629
END 8	Endocrine and Metabolic D	soluers	155
	Hematology and Oncology		915
	Immunology; Allergic Disor	<b>ders</b> Ander extendentialen aktivitet	1077
INE 11 PSY	Infectious Diseases Psychiatric Disorders	es ed best per al benserfech e.e. u	1143
PSY 12 NEU 13	Neurologic Disorders	그는 가만들은 것은 것은 것을 가지 않는 것을 것을 것 같다.	n Galan (Shiri)
<b>PUL</b> 14	Pulmonary Disorders	, karaba mbum abaar no laro ya Turu	1823
CVS 15	Cardiovascular Disorders	boren in 1995 gelande, frikkelinger (* 1996) generalen eta boren frikkelinger (* 1996)	2015
CRC 16	Critical Care Medicine	n ann an an tha ann ann an 1 an All an - an t-àitheadh ag	2243
GU) 17	Genitourinary Disorders	the product of the second s	2303
GYN 18	Gynecology and Obstetrics	r en dels na dels dels status	2479
PED 19	그만한 이 전한 이외에 이 문제되었다. 귀엽이 가지 않는 것이 있다.	n pre ogran ogranica ogranica mienter in redoren i botenic	2691
GER 20	Geriatrics	leila bra dosseen geloningo m	3069
RX 21	Clinical Pharmacology	ते हेव् अवत्यत्व द्वयुव्धयम् ज्याते स्थित्वयात् स्वतः एव तत्वत्व द्वयायपुरुष् स्थित्वयाः	3165
IND 22	Injuries' Poisoning	l den billeren den sijnt beren gester vo de naamskerelse til beschelde sedde se	3187
SPS 23	Special Subjects	ัฐเกม มาจากกับประเศษฐริการ	3371
APP	Appendixes	iona si ve adde citoa el garis sel l	3489
	Ready Reference Guides	ni alub n' na pali ma kalandi n	3489
ndi at di capata		over every presentation and approximate part of this enoug	3491
a status grades	Trade Names of Some Com		3505
IND	Index	and a second	3521

DOCKET

ALARM

#### 3562 Index

Casal's necklace 31 when your output Cascara 87 Contract Structure re-in elderly 3101 Contract Structure re-Caspofungin 1320, 1323 and the date of the Cast 3203 (9102) on a light in the stray of Castleman disease 1394 hours of the action and the castleman disease the strain of t Castor bean poisoning 3337 (Strong) and and ) Castor oil 87 °) aa (a-1514 desweerde C Casts, urinary 2309, 2311, 2375 and a rotation Cataplexy 1704, 1712, 1910-010 2019 cohoo) 1. GaVC analanan G Cataracts 606-607 congenital 2920 PLSE State and public of Catatonia 1541, 1560 Alexandratication Catecholamines 791 (see also Epinephrine; Norepinephrine) in MEN 2A syndrome 912 (14 Section and 1) pheochromocytoma secretion of 801-803, 1912 👘 🔍 🖓 🖓 (orreducie) used and G Jurinary 802, 3500 seally status entites to Catechol O-methyltransferase inhibitors 1768, 1769 Caluta (Prancip e) Catheterization 20 80 methods of some set of arterial 2249-2250 Laterander and stern bladder 2316-2317 set Router permities in children 2845 for incontinence 2359, 2362, 2364 in-dwelling 2362 (Adda System Bloose) infection and 2378 for the definitions oliguria with 2252-2253, 2252 in trauma 3192 - 2017 No. as 20 nationalias cardiac 2048-2052, 2050, 2051 and and complications of 2051-2052 left-heart 2048 Configuration (Configuration) right-heart 2048, 2105, 2205 central venous 2247-2249, 2249 in cardiopulmonary resuscitation 2259 for dialysis 2449 statisting muniz becas? infection and 1166 starting atomic history Provide the second state of the second state o intra-abdominal abscess drainage with 119 March NVS Periodial Martin 20 Carloshi - Halashi O intracranial 2246 peripheral vein 2247 NOS association peritoneal 2451 SEConditioning di pleural 2001, 2003 SEConditioning di SEConstituto 3 pulmonary artery 1986, 2244-2246, 2245, 2246 804 w - sorow in shock 2299, 2301 of a longitud urinary (see Catheterization, bladder) CAT scan (see Computed tomography) ward Cat-scratch disease 469, 1158, 1244-1245, 1244 OFOS ana British gradows ni Cauda equina 1804 NOR noiseastropped of

Cauda equina syndrome 1806, 3228, 3228, Cauliflower ear 3231 (1975) (2005) (2015) Causalgia (complex regional pain syndrome) 1633–1634 Caustic ingestion 3335–3336 gastritis with 133 Cavernous hemangioma 976 Cavernous lymphangioma 748. Castor in the Cavernous sinus thrombosis 554, 560, CEA (see Carcinoembryonic antigen) ecum (1997) (1995) สาราชุธรรมสารสมบัตรรรม ameboma of 1368 (1998) (1996) (1996) (1997) Cecum volvulus of 117) and matter during others Cefaclor 1187 in otitis media 449 de altra altra altra de la companya de la company Cefadroxil 1186 COS DOLL FOR HERE in endocarditis prophylaxis 2200 Cefazolin 1186 and end backets reduce a first in endocarditis prophylaxis 2200 in infective endocarditis 2198 neonatal dosage of 2812 filles where evolution as preoperative prophylaxis 3349-3350 Cefepime 1188, 1202 (mil) (100 (mil)) in infective endocarditis 2198 and whether in meningitis 1739, 1740, 1741 neonatal dosage of 2813 Cefoperazone 1187 and progelation and Cefotaxime 1187, 1203 in meningitis 1739, 1740, 1741 neonatal dosage of 2813 at abave to G Cefotetan 1187 - Resta-BEOS as eccepta Cefoxitin 1187.418. A call a browing and area Cefpodoxime 1188, 1203 Addition added out Cefprozil 1187 ASS 2001 Ceftazidime 1188, 1203 December 2013 in infective endocarditis 2198 in meningitis 1740, 1741 de contration neonatal dosage of 2813 spectral textility Ceftibuten 1188 and granderson - consuce after-Ceftizoxime 1188 Ceftobiprole 1202 de crédenter such tartier de Ceftriaxone 1184, 1188, 1203 in children 2761 och die Baseline of Star in infective endocarditis 2197-2198 in Lyme disease 1271, 1271 in meningitis 1739, 1740, 1741 Cheonatal dosage of 2813 managements in otitis media 449 BERE Manufacture Later . polymerou m?) Cefuroxime 1187 .in Lyme disease 1271 dealler al in otitis media 449 Col Constant Lints of

#### 606 SECTION 6 C Eye Disorders

block. It is done as soon as the cornea is clear and inflammation has subsided. In some cases the cornea clears within hours of lowering the IOP; in other cases, it can take 1 to 2 days. Because the chance of having an acute attack in the other eye is 80%, LPI is done on both eyes.

The risk of complications with LPI is extremely low compared with its benefits. Glare, which can be bothersome, may occur if the iridotomy is not placed superiorly enough for the upper lid to cover it. The sector of the sector and

esulus crossie bielt for do 166 corda

a) 30% to here a been a Bay tradition

#### 66 Cataract entist anitani

(For developmental or congenital cataracts, see p. 2920.)

A cataract is a congenital or degenerative opacity of the lens. The main symptom is gradual, painless vision blurring. Diagnosis is by ophthalmoscopy and slit-lamp examination. Treatment is surgical removal and placement of an intraocular lens. 使空口的感到出

Lens opacity can develop in several locations:

- Central lens nucleus (nuclear cataract)
- · Beneath the posterior lens capsule (poste-
- rior subcapsular cataract) Etiology and second and activity of the second second

Cataracts occur with aging. Other risk factors may include the following:

- Trauma (sometimes causing cataracts years
- later) Smoking
- Smoking Alcohol use
- Exposure to x-rays
- Exposure to x-rays
  Heat from infrared exposure
- Freat from infrared e.g. diabetes)
- Uveitis
- Ovenus Systemic drugs (eg, corticosteroids)
- Undernutrition Dark eyes
- Possibly chronic ultraviolet exposure

Many people have no risk factors other than age. Some cataracts are congenital, associated with numerous syndromes and diseases.

#### ende overlagter pog Symptoms and Signs interesting provided

Cataracts generally develop slowly over years. Early symptoms may be loss of contrast, glare (halos and starbursts around lights), needing more light to see well, and problems

Chronic angle-closure glaucoma: Patients with chronic, subacute, or intermittent angleclosure glaucoma should also have LPI. Additionally, patients with a narrow angle, even in the absence of symptoms, should undergo prompt LPI to prevent angle-closure glaucoma.

The drug and surgical treatments are the same as with open-angle glaucoma. Laser trabeculoplasty is relatively contraindicated if the angle is so narrow that additional PAS may form after the laser procedure.

าสทหุลของชื่อสทรงไฟส์จึงระที่ในสาร (อาร์ไฟย์ ครุรกรไว้). รุษมีพ.พูปรรมสาวสรรมสาวิทยาร หลายการไป (รูปและ รุษม

#### Adapta in the Add St. Charlie & Martin Brief L our

worker one did blend doors of sools distinguishing dark blue from black. Painless blurring eventually occurs. The degree of blurring depends on the location and extent of the opacity. Double vision occurs rarely.

With a nuclear cataract (see Plate 4), distance vision worsens. Near vision may improve in the early stages because of changes in the refractive index of the lens; presbyopic patients may be temporarily able to read without glasses (second sight).

ľ

fi

e

а

ņ

٦

C

A posterior subcapsular cataract disproportionately affects vision because the opacity is located at the crossing point of incoming light rays. Such cataracts reduce visual acuity more when the pupil constricts (eg, in bright light, during reading). They are also the type most likely to cause loss of contrast as well as glare, especially from bright lights or from car headlights while driving at night.

Rarely, the cataract swells, occluding the trabecular drainage meshwork and causing secondary closed-angle glaucoma and pain.

Diagnosis and the state of the state

 Ophthalmoscopy followed by slit-lamp examination . davla, nadava, and ver

Diagnosis is best made with the pupil dilated. Well-developed cataracts appear as gray, white, or yellow-brown opacities in the lens. Examination of the red reflex through the dilated pupil with the ophthalmoscope held about 30 cm away usually discloses subtle opacities. Small cataracts stand out as dark defects in the red reflex. A large cataract may obliterate the red reflex. Slit-lamp examination provides more details about the character, location, and extent of the opacity: Distance

Treatment
Surgical removal of the cataract
Date of the cataract Placement of an intraocular lens

### DOCKET A L A R M



## Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

### **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

### **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

### **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

### LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

### FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

### E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.