Synopsis of GYNECOLOGIC ONCOLOGY

Third Edition

C. PAUL MORROW

DUANE E. TOWNSEND

1990年3月21日



Synopsis of GYNECOLOGIC ONCOLOGY

Third Edition

C. PAUL MORROW, M.D.

Professor of Gynecology Director of Gynecologic Oncology University of Southern California School of Medicine Los Angeles, California



DUANE E. TOWNSEND, M.D.

Clinical Professor
Department of Obstetrics and Gynecology
University of Southern California at Davis
Sacramento, California

With Contributions By:
JOHN A. BLESSING, Ph.D.
JOHN E. BYFIELD, M.D., Ph.D.
CONLEY G. LACEY, M.D.
DOUGLAS J. MARCHANT, M.D.
MALCOLM S. MITCHELL, M.D.
J. TATE THIGPEN, M.D.



Includes bibliographies and valdes

A WILEY MEDICAL PUBLICATION

JOHN WILEY & SONS

New York · Chichester · Brisbane · Toronto · Singapore

Copyright © 1987 by John Wiley & Sons, Inc.

All rights reserved. Published simultaneously in Canada.

Reproduction or translation of any part of this work beyond that permitted by Section 107 or 108 of the 1976 United States Copyright Act without the permission of the copyright owner is unlawful. Requests for permission or further information should be addressed to the Permissions Department, John Wiley & Sons, Inc.

Library of Congress Cataloging in Publication Data:

Morrow, C. Paul, 1935-Synopsis of gynecologic oncology.

(A Wiley medical publication)

- Includes bibliographies and index.
 - 1. Generative organs, Female—Cancer.
- I. Townsend, Duane E. II. Title. III. Series.

[DNLM: 1. Genital Neoplasms, Female. WP 145 M883s]

RC280.G5M67 1987

616.99'465 87-2112

ISBN 0-471-83749-0

Printed in the United States of America

10 9 8 7 6 5 4 3 2 1

Contributors

JOHN A. BLESSING, Ph.D. Director of Statistics Gynecologic Oncology Group Roswell Park Memorial Institute Buffalo, New York

JOHN E. BYFIELD, M.D., PH.D.
Radiation Therapist
Daniel Freeman Hospital
Los Angeles, California
Formerly, Professor and Chief of
Radiation Oncology
University of California at San Diego
San Diego, California

Conley G. Lacey, M.D.
Professor of Clinical Obstetrics and
Gynecology
University of California at San Francisco
San Francisco, California

Douglas J. Marchant, M.D. Professor of Obstetrics and Gynecology Professor of Surgery Tufts University School of Medicine Boston, Massachusetts

MALCOLM S. MITCHERE, M. D.
Professor of Medicine and Microbiology
University of Southern California School
of Medicine
Los Angeles, California

J. TATE THIGPEN, M.D.
Professor of Medicine
Director, Division of Medical Oncology
University of Mississippi Medical School
Jackson, Mississippi

Preface

This book is intended to be a complete guide to the practice of gynecologic oncology for the physician in training, the general gynecologist, and the cancer specialist. The contents integrate the essential clinical characteristics of the various gynecologic tumors (symptoms, physical findings, epidemiology) with detailed, explicit information concerning their diagnosis, treatment, and outcome. The scope has been expanded in this, the third edition, by incorporating unusual malignant tumors, benign tumors, and related conditions such as genital warts and the vulvar dystrophies. In addition, chapters have been added on breast diseases (Dr. Marchant) and medical statistics (Dr. Blessing). The section on chemotherapy has been completely rewritten by J. Tate Thigpen, M.D., and Malcolm S. Mitchell, M.D., has contributed a new chapter on immunology.

There has been a reordering of the chapters for organizational purposes. Every section has been revised on the basis of a detailed review of the literature and changes in clinical practice since the last edition. Thus, the third edition has undergone major revisions in order to broaden its scope and update its information. The breadth of coverage, we believe, makes this volume uniquely qualified to serve as a basic textbook as well as a reference

work for clinical practice.

The volume and quality of new information in the discipline of gynecologic oncology continue to increase at a formidable pace. It is clearly beyond the capacity of a single individual to master. All of us, then, must rely upon the work, advice, and experience of others. We have solicited contributions from experts in several important areas: John A. Blessing, Ph.D., in medical statistics; John E. Byfield, M.D., Ph.D., and Conley G. Lacey, M.D., in radiation therapy; Douglas J. Marchant, M.D., in diseases of the breast; Malcolm S. Mitchell, M.D., in the field of immunology; and J. Tate Thigpen, M.D., in chemotherapy. For assistance in reviewing portions of the manuscript, we wish to thank our clinical fellows, Joseé Dubuc-Lissoir and Fredrick J. Montz. Rogerio A. Lobo, M.D., provided invaluable assistance with the endocrinologic aspects of this book. We are especially indebted to John B. Schlaerth, M.D., friend and associate of many years, who is an unfailing source of information, advice, and support. We wish to acknowledge the secretarial assistance of Sylvia P. Rivera and Joann Little. Finally, we give our enduring thanks to Dianna Livingstone who singlehandedly organized and put onto computer disks, according to the publisher's specifications, the entire manuscript for this book.

C. Paul Morrow, M.D. Duane E. Townsend, M.D.

Premalignant and Related Disorders of the Yuka Conductor Conductor

١.	Premalignant and Related Disorders of the Lower Genital Tract	. 1
	Human Papilloma Virus Infections, 1 General Considerations, 1	
	Vulvar Condylomas, 1 Vaginal Condylomas, 2	4.
	Cervical Condylomas, 3 Premalignant Lesions of the Vulva, 3 or 10 to storder Disorders of the Vulva, 3 or 10 to storder Disorders or 10 to 20 or 10 t	
	Vulvar Dystrophies, 3	
	Vulvar Intraepithelial Neoplasia (VIN), 8 Vaginal Intraepithelial Neoplasia (VAIN), 14 Etiology, 14	
	Cervical Intraepithelial Neoplasia (CIN), 17 Etiology, 19	
	Detection of CIN, 19 The Class II or Atypical Pap Smear, 19	5.
	Evaluation of CIN, 20 Evaluation of CIN, 22 Evaluation of CIN, 22 Evaluation of CIN, 22	
	Colposcopy, 28 Normal Transformation Zone, 29 Colposcopically Overt Carcinoma, 31 to an algorithm of the company of the colposcopically of the colposcopical of	
	Satisfactory or Unsatisfactory Examination, 31 Other Colposcopic Findings, 36 Other Applications of Colposcopy, 36	
	References, 38	
	Vaginal Adenosis, Adenocarcinoma, and Diethylstilbestrol	45
	Evaluation and Management of the DES-Exposed Patient, 45 Natural History of DES Changes, 46 Clear Cell Adenocarcinoma, 49	
	Squamous Cell Neoplasia, 53	
	References, 53	

3. Tumors of the Vulva

Benign Tumors of the Vulva, 57
Nonneoplastic Tumors, 57
Benign Vulvar Neoplasms, 58
Pigmented Lesions of the Vulva, 59
Erosions and Ulcers of the Vulva, 60

Premalignant and Related Disorders of the Vulva: Condylomas, Vulvar Dystrophies, Vulvar Intraepithelial Neoplasia (See Chapter 1), 60

Malignant Tumors of the Vulva, 60
Squamous Carcinoma, 61
Variants of Squamous Cell Carcinoma, 77
Other Vulvas Malignancies, 78
References, 84

4. Tumors of the Vagina

Benign Tumors of the Vagina, 91

Premalignant and Related Disorders of the Vagina: Condylomas and Vaginal of Intraepithelial Neoplasia (See Chapter 1), 92

Malignant Tumors of the Vagina, 92

Squamous Carcinoma, 92

Other Vaginal Malignancies, 96

References, 99

5. Tumors of the Cervix

Benign Tumors of the Cervix, 103 Endocervical Polyps, 103 Capillary Hemangioma, 103 Microglandular Hyperplasia, 103

Premalignant and Related Disorders of the Cervix: Condylomas and Cervical Intraepithelial Neoplasia (See Chapter 1), 104

Malignant Tumors of the Cervix—Squamous Carcinoma, 104

Epidemiology, 104
Etiology, 105
Cervical Cancer Screening, 107
Clinical Features, 108
Pathophysiology, 112
Prognostic Factors, 114
Staging and Evaluation, 118
Treatment, 122
Special Treatment Categories, 131
Follow-up and Recurrence, 137

Other Malignant Tumors of the Cervix, 140
Verrucous Carcinoma, 140
Adenocarcinomas, 141
Mixed Çarcinomas, 145
Apudomas, 146
Sarcomas and Lymphomas, 146
References, 146

91

103

6. Tumors of the Endometrium (159)

Benign and Premalignant Tumors, 159 The Endometrial Hyperplasias, 159 Benign Endometrial Polyps, 163 Endometrial Metaplasia, 164 Endometrial Carcinoma, 164 Epidemiology, 164 Endometrial Cancer Screening, 168 Clinical Features, 169 Pathology, 173 Clinical Staging and Evaluation, 174 Surgical-Pathologic Staging, 176 Treatment, 178 Recurrence, 185 Special Treatment Categories, 190 Other Endometrial Carcinomas, 194 Adenosquamous Carcinoma, 194 Papillary Serous Carcinoma, 195 Clear Cell Carcinoma, 195 Squamous Cell Carcinoma, 196 References, 196

7. Uterine Sarcomas and Related Tumors

Classification, 207 Myometrial Sarcomas and Related Tumors, 208 Benign and Borderline Malignant Smooth Muscle Tumors, 208 Leiomyosarcoma, 209

Endometrial Sarcomas and Related Tumors, 212 Pure Tumors of Endometrial Stroma, 212 Mixed Tumors of the Endometrium, 215 Pure Heterologous Tumors, 221

Miscellaneous Soft Tissue Tumors of the Uterus, 221 Hemangiopericytoma, 221 Lipomatous Tumors (Benign Mixed Mesodermal Tumors), 222 Other Tumors, 222

References, 223

8. Tumors of the Fallopian Tube tenduction of Androgen Excess 312 44

Benign Tumors and Tumor-Like Conditions, 227 Malignant Tumors of the Fallopian Tube, 227 Adenocarcinoma, 227 Sarcomas of the Fallopian Tube, 229 References, 230

227

Cramiloscopología Cell Tumois.

	현존 10 10 10 10 10 10 10 10 10 10 10 10 10	
9.	Tumors of the Ovary: General Considerations; Classification; the Adnexal Mass	231
	General Considerations, 231 Epidemiology, 231 Etiology, 232 Familial Ovarian Carcinoma, 234 Screening for Ovarian Neoplasia, 235 Preventing Ovarian Cancer, 236	
	Classification of Ovarian Tumors, 236 The Adnexal Mass, 238 Symptoms, 239 Physical Findings, 241 Preoperative Evaluation, 243 Operative Management, 249	
	References, 253	
10.	Tumors of the Ovary: Neoplasms Derived from Coelomic Epithelium	257
	Benign Epithelial Neoplasms, 257 Characteristics of the Histologic Subtypes, 257 Management of Benign Epithelial Tumors, 262	
	Borderline Epithelial Tumors, 262 Characteristics of Histologic Subtypes, 263 Treatment of Borderline Ovarian Malignancies, 268	
	Obviously Malignant Epithelial Neoplasms, 268 Characteristics of Histologic Subtypes, 268 Pathophysiology, 275 Prognostic Factors, 278	
	Management of Ovarian Carcinoma, 281 Special Management Problems, 290 Reproductive Conservation, 290 Serous Effusions, 291	
	Ovarian Tumors in Pregnancy, 292 Ovarian Tumors in Children, 292	
	References, 295 **Example Family Comparation of the References and Property of the References of the	
11.	Tumors of the Ovary: Sex Cord Stromal Tumors and Common Legistres Germ Cell Tumors	305
	Sex Cord Stromal Neoplasms, 305 Granulosa-Stromal Cell Tumors, 306 Sertoli-Leydig Cell Tumors (Androblastomas), 309 Evaluation of Androgen Excess, 312 Management of Ovarian Stromal Tumors, 314	
	Germ Cell Tumors, 314 Teratomas, 315 Dysgerminoma, 320 Endodermal Sinus Tumor (EST), 322 September 2	

335

Orug chedole 414

Ania etallollata 422

era familiaria 345

Embryonal Carcinoma, 324
Choriocarcinoma, 324
Polyembryoma, 324
Mixed Germ Cell Tumors, 325
Gonadoblastoma, 325
Management of Germ Cell Tumors, 325
References, 329

12. Tumors of the Ovary: Soft Tissue and Secondary (Metastatic) Tumors; Tumor-Like Conditions

Fibroma, 335
Lymphoma, 336
Tumors Metastatic to the Ovary, 336
Tumor-Like Conditions of the Ovary, 337
Pregnancy Luteoma, 337
Ovarian Hyperthecosis, 337
Massive Ovarian Edema, 338
Solitary Functional Cysts, 339
Polycystic Ovaries, 339
Theca-Lutein Cysts and Multiple Corpora Lutea, 340
Endometriotic Cysts (Endometriomas), 340
Germinal Inclusion Cysts, 341
Simple Cysts, 341
Parovarian Cysts, 341
References, 342

Soft Tissue Tumors Not Specific to the Ovary, 335

13. Tumors of the Placental Trophoblast

Normal Trophoblast, 345
Hydatidiform (Hydatid) Mole, 346
Epidemiology, 346
Classification of Molar Pregnancies, 348
Cytogenetics, 349
Diagnosis, 351
Nonneoplastic Complications, 354
Management of Molar Pregnancy, 355
Invasive Mole, 357
Choriocarcinoma, 357
Placental Site Trophoblastic Tumor, 359
Management of GTN, 360

Management of GTN, 360.

Human Chorionic Gonadotropin Assay, 360

Postmolar Pregnancy Surveillance, 365

Abnormal Postmolar hCG Regression, 369

Nonmetastatic GTN (Stage I), 371

Metastatic GTN (Stages II–IV), 374

Pregnancy after Chemotherapy for GTN, 380

References, 382

14.	Diseases of the Breast	E Embryonal Carcinoma, 1324	889
	by Douglas J. Marchant	Choriocaminoma, 324	
	5, 2508.40	Polyembryopus, 324	
	General Considerations, 389	Mixed Cerm Cell Tumors, 115	
	Developmen of Breast Tissue, 389	Conedoblastoma, 325	
	Physiologic Alterations, 390		
	Breast Cancer, 393		
	Risk Factors and Epidemiology, 393		
	Diagnosia 304		
	Treatment, 403	Tumors of the Overy: Suff Tissue and	
	Postoperative Management, 407		
	Poforoncos 407		
	nererences, 19		
		Fibriomas 335	
15.	Chemotherapy		109
	by J. Tate Thigpen		
		Fumor-Like Conditions of the Cwary, 337	
	General Principles, 409		
	Mechanisms of Cytotoxicity, 409		
	Factors Influencing the Response, 41		
	Mechanisms of Resistance, 412		
	Current Practice, 413	Polycystic Ovaries, 339 😪	
	Combination Chemotherapy, 413		
	Drug Schedule, 414		
	Adjuvant Chemotherapy, 414	Germinal Inclusion Cysts, 341	
	Special Cases, 414	Single Cysts, 341.	-
	Summary, 416		
	Drug Development, 417		
	Clinical Trials, 417		
	Specific Drugs, 419	and the second second second	
	Alkylating Agents, 419	Tumors of the Placental Trophoblast:	
	Antimetabolites, 427		
	- Plant Alkaloids, 431		
	Other Useful Agents, 433		
	Chemotherapy of Specific Neoplasms,	433	
	Cancer of the Ovary, 434		
	Cancer of the Uterine Cervix, 439	Overgeneurs, 349 Diagnosis, 351	
	Cancer of the Endometrium, 442	Nonecombastic Complications, 354	
	Other Neoplasms, 445		
	Conclusion, 447		
	References, 447		
16.	Principles of Radiation Therapy	Management of CTN, 36th	459
	by John E. Byfield and Conley G.	Lacey Tolk and address manual and the control of th	
	Introduction to Radiation Oncology, 45	Abromal Polimolar nCC Regression ea	
	Radiation Physics, 460	Associated CTN IStages U-IV. 334	
	Structure of Matter, 460		
-	Origins of Natural Radioactivity: Rad		
	Physical Absorption of Ionizing Radia	ation, 462	
	Inverse Square Law 463		

此为试读,需要完整PDF请访问: www.ertongbook.com.

521

External Beam Radiation Treatment Instrumentation, 464 Radiocobalt, 465 Electrical Treatment Units, 467 252 253900 Shologonyo to vosterficational Common Terms Used in Therapeutic Radiology, 468 Experimental Instruments, 469 Skin and Bone Sparing, 469 Treatment Planning, 469 Introduction to Radiation Biology, 470 DNA Damage, 470 Initial Radiation Chemistry of X-Ray Damage, 470 Relative Biologic Effectiveness (RBE), 472 Postradiation Repair and Cell Survival, 472 Oxygen Effect, 478 Early Adverse Effects: Cellular Basis, 480 Late Adverse Effects (Complications), 481 Clinical Implications of Radiation Biology, 482 Tumor versus Normal Cell Repopulation Kinetics, 483 pre endo I lassificate Time-Dose Fractionation, 485 * Radiation Therapy for Cervical Carcinoma, 487 Choice of Modality, 487 Treatment Dose and Dosimetry, 487 Treatment Volume, 492 Intracavitary Treatment Applicators, 492 Sequence of External and Intracavitary Therapy, 496 Newer Approaches to Radiation Therapy for Cervical Cancer, 499 Radiation Therapy for Endometrial Carcinoma, 502 Stage I Carcinomas, 502 Stage II Carcinomas, 503 Other Topics, 55.F. Stage III Carcinomas, 503 Radiation Therapy for Ovarian Carcinoma, 504 External Beam Therapy, 504 Intraperitoneal Radioactive Colloids, 505 Adverse Effects of Radiation, 508 Pathology, 508 Acute Radiation Reactions, 509 Delayed Radiation Reactions, 509 Thrangland of griddless dollar reactions Conclusions, 515

17. Immunology and Immunotherapy of Gynecologic Cancers by Malcolm S. Mitchell

References, 516

Principles of Tumor Immunology, 521
Tumor Antigens, 521
The Immune Response to Tumor Antigens, 523
Immunologic Surveillance, 524
Escape of Established Tumors from Immunologic Rejection, 525
Immunotherapy, 525
Irnmunology of Gynecologic Cancers, 527
Tumor Antigens, 527

	Antibody-Mediated Immunity, 528 Cell-Mediated Immunity, 528	
	Immunotherapy of Gynecologic Cancers, 529 Nonspecific Active Immunotherapy, 529 Specific Active Immunotherapy, 530	
	Summary and Conclusions, 531	
	References, 531	
	Introduction to Radiation Biology, 470	
	DNA Damage, 470	
8.	Principles of Statistics OXA, Ray Damage, 470 Initial Radiation Chemistry of X-Ray Damage, 470	535
	Relative Biologic Effectiveness (RBE): 472 Postradiation Repair and Cell Sucrival, 472	
	Introduction, 535 874 Joella negyxO -	
	Early Adverse Effects (Complications), 481 Late Adverse Effects (Complications), 481	
	Dillomat Distribution, 330	
	Clinical Implications of Radiation Biology, 482 838 (Sinical Implications Versus Normal Cell Repopulation Kinetics, 483 983 (Sinical Topics, 539 Computation Kinetics, 483 983)	-
	Sampling Theory, 539 Sampling Theory, 539	
	Sumpling Theory, 333	
	THE WALL BOTH IN THE PARTY I	
	Estimation, 543	
	Hypothesis Testing, 543	
	Clinical Trials Applications, 545 Phase II Studies, 546 Phase III Studies, 547 Contingency Tables, 550 Life Tables, 551 P Values, 553 Other Topics, 553 Other Topics, 553	
	Conclusions, 554	
	References, 555 External Beam Therapy, 504 Introperitoreal Kadioactive Colloids, 505	i
0	Staging and Classification	557
Э.	Staging and Classification	337
	Classification and Staging of Malignant Tumors in the Female Pelvis, 557 General Rules (FIGO, 1971 and 1985) for Clinical Classification and Staging, 557 Carcinoma of the Uterus and Vagina, 557 Carcinoma of the Cervix, 558	
	Carcinoma of the Corpus, 560 Carcinoma of the Vagina, 562	
	Carcinoma of the Vulva, 563	7.3
	Carcinoma of the Ovary, 563	
IF		
AL	Principles of Tumor Immunology 521 Lumor Antigens, 521	567

Immunology of Gynecologic Cancers, 527 Tumor Antigens, 527

I

1

Premalignant and Related Disorders of the Lower Genital Tract

HUMAN PAPILLOMA VIRUS INFECTIONS

General Considerations

Also known as anogenital or venereal warts, condylomata acuminata are caused by several highly infectious, sexually transmitted serotypes of the human papilloma virus (HPV). At least four distinct benign epithelial lesions of the female genital tract attributable to HPV infection have been described: (1) the typical verrucous or papillary acuminate wart, (2) the flat or intraepithelial condyloma, (3) the inverted condyloma, and (4) the giant condyloma, Multiple sites of involvement are common. The presence of extensive warts suggests an immune suppressed state such as pregnancy, organ transplantation, or an immune deficiency disease.

During the past two decades the prevalence of anogenital warts has reached nearepidemic proportions. The accumulating evidence that certa. HPV serotypes can be oncogenic in humans has intensified the general concern regarding the prevalence of HPV
infections. HPV strains 16 and 18 are commonly associated with invasive cervical carcinoma, as well as the more severe aneuploid dysplasias, while strains 6 and 11 occur almost
exclusively in the lesser dysplasias and condylomas that have a polyploid DNA distribution. Since aneuploidy confers a substantial risk of progression, and since polyploidy is
associated with spontaneous regression, it appears that the oncogenic risk of HPV infections is, among other things, dependent upon the infecting viral strain or serotype (Fu et al,
1981; Crum et al, 1982a, 1984b; Rastkar et al, 1982; Stanbridge and Butler, 1983; Reid et al,
1984b; Winkler et al, 1984). The evidence that HPV is related to malignant and premalignant squamous neoplasia of the lower genital tract is further described in Chapter 5.

Vulvar Condylomas

The spiculated or filiform perineal warts are managed initially with weekly 25% podophyllin or trichloracetic acid (TCA) applications two to three times per week. If the warts fail to regress, biopsy 4–6 weeks after the last treatment is indicated. With an incubation period of 4–12 weeks or longer, new lesions may develop, however, and these should not be taken as evidence of treatment failure. Management of the typical case also requires treatment for associated infections, especially trichomonas. Extensive or refractory lesions are best treated by laser therapy. The giant condylomas (Fig. 1.1) do not respond to podophyllin or TCA therapy. Excision with a knife, laser, or wire loop cautery is recommended after adequate biopsy has excluded the presence of carcinoma. Intramuscular and intralesional



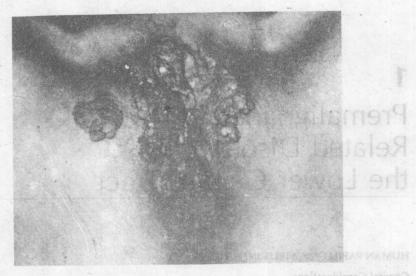


Figure 1.1. Giant condyloma. These cauliflower-like growths had been present for over 30 years. When removed from a patient 65 years of age, foci of severe squamous dysplasia were present. This form of condyloma does not respond to medical therapy. (From Morrow, 1987. Reproduced with permission of Churchill Livingstone, London.)

interferon therapy appears to be effective in clearing 30-50% of resistant genital warts (Eron et al, 1986; Gall et al, 1986). Induration at the base is very suggestive of malignancy.

Flat condylomas of the vulva closely resemble the dysplastic lesions of bowenoid papulosis. Except for focal involvement, the treatment of choice is laser vaporization. This can often be accomplished in the office setting under local anesthesia. The lesions themselves are treated to the level of the dermal papillae. A 5-mm zone of surface epithelium surrounding each lesion, or all intervening epithelium in cases of extensive disease (Ferenczy et al, 1985), is treated by the low power density (350-450 W/cm²) brush technique to minimize scarring (Reid, 1985). This is especially important when treating the anal canal or urethra. Laser therapy also provides a safe and effective means of treating selected anogenital condylomas complicating pregnancy (Ferenczy, 1984b). For the first month after therapy intercourse is interdicted. Thereafter, condoms should be used until both partners are clear of lesions for at least 6 weeks.

Vaginal Condylomas outpools subjust as town farmer news tell to alesteem attornable from

Condylomata acuminata of the vagina may be isolated, but most are associated with cervical and/or vulvar condylomas, with which they share many common features. Their occurrence in conjunction with dysplasia is frequent. Vaginal condylomas of the spiculated variety generally present with vaginal discharge and pruritus, while flat (intraepithelial) condylomas are often detected only by routine cytology.

Evaluation begins with a careful gross examination of the lower genital tract and perineum followed by colposcopy, Lugol's staining, and directed biopsy of the vagina and cervix. TCA treatment of the fresh, spiculated condylomas can be successful if the lesions are not extensive, but this treatment is ineffective against the flat wart. For this type of condyloma, as well as the resistant or extensive papillary variety, intravaginal 5fluorouracil (5-FU) or laser vaporization is recommended. The former is more cost effective but is not applicable to pregnant women (Ferenczy, 1984a). Laser treatment of multiple vaginal condylomas requires the use of the brush technique to eradicate the viruscontaining, normal-appearing epithelium between the warty lesions. Precautions against reinfection, as described for cervical condylomas, are necessary.

Cervical Condylomas

It is common knowledge that the cervix is an unusual site for the typical spiculated venereal wart. Consequently, the high frequency of cervical HPV infection was not appreciated until the late 1970s when Meisels and associates described the flat (intraepithelial) condyloma (Meisels and Fortin, 1976; Meisels et al, 1977; Meisels and Morin, 1981). The inconspicuous epithelial hyperplasia closely resembles squamous dysplasia clinically, colposcopically, cytologically, and histologically. Thus, it is not surprising that its true nature remained unknown until the technology to identify the HPV virus became available. These condylomatous lesions were previously classified as dysplasias when cytologic atypia was prominent and as inflammatory when atypia was absent or inconspicuous.

The widespread prevalence of cervical HPV infections has now been abundantly documented. In retrospective studies, about 75% of cervical intraepithelial neoplasia (CIN) I and 50% of CIN II lesions are reclassified as flat condylomas. Pap smear screening of the general population indicates a 1.5% prevalence rate of genital HPV infection, approximately three times that of squamous dysplasia. More than half of the cases of anogenital condylomas in women are now accounted for by cervical lesions (Meisels et al, 1982).

Diagnosis

The flat condylomas develop within the transformation zone. They are not usually visible until acetic acid is applied, after which they turn white. Typical colposcopic features include a micropapillary contour, inconspicuous vascular pattern, feathered margins, satellite lesions, and a shiny snow white color (Reid and Scalzi, 1985). Biopsy is required, however, to document the nature of the lesion. An intimate admixture of flat condyloma and bona fide dysplasia is common.

Histologically, the distinctive feature of the intraepithelial condyloma is koilocytosis (Fig. 1.2; Crum et al, 1982b). Crum and Levine (1984) have reported that HPV infection of immature squamous metaplasia does not produce koilocytic changes. In this situation, the pathologic diagnosis is likely to be atypical immature metaplasia.

Management mobing vounded landshour shaw househous a vounded switches

Although many cervical condylomas regress spontaneously, it is generally recommended that even the milder forms be treated because there is no practical way to determine which are potentially malignant, that is, those that are aneuploid or caused by HPV-16 and HPV-18. Furthermore, the lesions are considered highly infectious. Concurrent involvement of the vagina and/or vulva is common.

The preferred treatment for cervical condylomas whether flat, inverted, or papillary, is laser vaporization. The entire transformation zone is treated to a depth of 5–7 mm, with a lateral margin of 5 mm (Baggish, 1985). The sexual partner should also be examined, since reinfection is a frequent cause of treatment failure. Condylomas are reportedly found in 50–75% of male partners if colposcopic magnification is used (Levine et al, 1984; Sedlacek et al, 1986). Posttreatment precautions against reinfection are recommended. Cure rates with a single treatment have been somewhat poorer than those of dysplasia.

PREMALIGNANT LESIONS OF THE VULVA

Vulvar Dystrophies which to non-ghorn and should exerce in shinger will be

The chronic vulvar dermatoses have now been sorted out on a histopathologic basis providing the clinician with a far simpler, more useful working classification than that based on

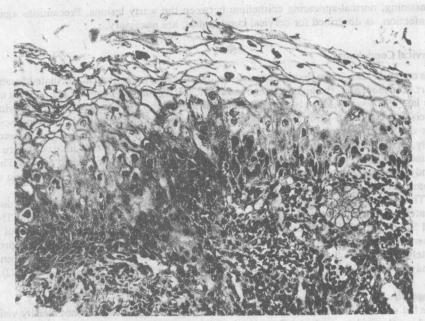


Figure 1.2. Cervical intraepithelial condyloma. Characteristic vacuolization and ballooning of the upper cell layer is termed *koilocytosis*. In the parabasal cells there is nuclear enlargement without abnormal mitoses. (Courtesy of Gerrit d'Ablaing, M.D.)

the gross morphology of these lesions. Instead of the red/white, keratinized/nonkeratinized grouping, the more specific diagnostic categories of lichen sclerosus (et atrophicus, LSA), hyperplastic dystrophy, and mixed forms, all with or without atypia [vulvar intraepithelial neoplasia (VIN) or dysplasia] are determined by tissue biopsy. The treatment is based on the specific histologic diagnosis and the presence or absence of dysplasia. In general when VIN is present, ablative therapy is indicated, while medical therapy predominates in the absence of dysplasia. The goals of treatment are to relieve symptoms, to prevent the development of carcinoma, and to restore tissue normalcy. In most instances, these goals can be achieved only in part.

Lichen Sclerosus (LSA)

Etiology Lavery and Pinkerton (1983) have proposed that the hyperplastic, atrophic (LSA) and mixed dystrophies are phases of a single disease process most likely of autoimmune origin. The association of LSA with autoimmune phenomena is well documented. Various authors have reported an increased incidence of achlorhydria, vitiligo, diabetes, thyroiditis, pernicious anemia, antibodies to gastric parietal cells, and intrinsic factor in patients with LSA (Harrington and Dunsmore, 1981). Meyrick-Thomas et al (1982) found that 75% of their LSA study group had at least one autoantibody and 20% had evidence of an autoimmune disease. Fifteen instances of familial LSA have been documented with recent evidence suggesting an HLA linkage (Friedrich and MacLaren, 1984).

Lavery and Pinkerton have proposed that the association of LSA with achlorhydria suggests that LSA may result from abnormal levels of gastrointestinal hormones, especially urogastrone. This peptide in excess inhibits the production of hydrochloric acid (HCL) while stimulating the production of epidermal growth factor. The latter, it is postulated, causes hypertrophy of the vulvar skin accompanied by increased levels of somatostatin, a