James E. Fitzpatrick, MD Joseph G. Morelli, MD

FIFTH EDITION

DERMATOLOGY SECRETS Plus

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DERMATOLOGY SECRETS PLUS

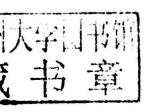
FIFTH EDITION

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This book is dedicated

To my loving wife, Lois, and my granddaughter, Megan
—JEF

and

To William and Dorothy Morelli
—JGM

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PREFACE

"I cannot teach anybody anything, I can only make them think."

-Socrates, 470-399 BC

It is once again fitting to preface the fifth edition of *Dermatology Secrets Plus* with a quote from Socrates, the eminent Athenian philosopher and the father of the Socratic method, also known as *elenchus*. The Socratic method of utilizing a series of questions has been used by attending physicians at the patient bedside, on rounds, or in the clinic for centuries to teach medical students, interns, residents, and fellows. In philosophy, this method was used to examine important moral concepts by a series of questions, while in medicine this method is used to augment classroom teaching and reading of the medical literature. Rather than learning by rote memory, the questions posed in this book force the reader to think about an answer, with the ultimate goal being able to understand, correctly diagnose, and treat dermatologic diseases.

Dermatology is a visual specialty that requires a correlation of the patient history and examination of the skin to arrive at a diagnosis. To that end, this edition is lavishly illustrated with numerous color photographs, including more than 100 new photographs compared with the last edition. Other changes to this edition include combining and condensing the chapters on Hansen's disease (leprosy) and mycobacterial infections into one chapter, and adding two new chapters, "Disorders of the Male Genitalia" and "Disorders of the Oral Mucosa." Hundreds of questions, answers, and references have been revised or updated.

Socrates also said, "Education is the kindling of a flame, not the filling of a vessel." This *Secrets* series focuses on questions that students of dermatology will be asked by their teachers. It is not comprehensive, and answers are kept deliberately short. Readers are encouraged to refer to one of the many comprehensive textbooks of dermatology to round out their education.

James E. Fitzpatrick, MD Joseph G. Morelli, MD

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TOP 100 SECRETS

- 1. Ichthyosis vulgaris, with an incidence of 1:250, is by far the most common ichthyosis.
- Multiple Lisch nodules (melanocytic hamartomas of the iris) are pathognomonic of neurofibromatosis (NF)-1.
- Hypomelanotic macules are a useful diagnostic skin sign for tuberous sclerosis in infants with seizures.
- Squamous cell carcinoma is the most common cause of death in adults with recessive dystrophic epidermolysis bullosa.
- 5. Seborrheic dermatitis can be found not only on the scalp, but also on the face around the nares, central chest, axillae, and even on the penis.
- 6. Pityriasis rosea has oval papules and plaques that tend to line up along skin lines ("Christmas tree" pattern) with trailing scale (scale does not reach the end of the lesion).
- 7. Skin barrier dysfunction is a basic component of atopic dermatitis pathophysiology.
- 8. Dilute bleach baths are an effective therapy to decrease Staphylococcus aureus colonization in atopic dermatitis.
- 9. Eighty percent of contact dermatitis reactions are due to irritation, and 20% are due to allergic causes.
- 10. Patch testing is the only way to distinguish between allergic and irritant contact dermatitis.
- 11. Immunobullous diseases are acquired and are due to autoantibodies directed at protein components of the epidermis or dermoepidermal junction.
- Direct immunofluorescent studies on biopsies from perilesional skin are required to diagnose and differentiate between the immunobullous diseases.
- 13. Systemic corticosteroids are a common implicating factor in precipitating the onset of generalized pustular psoriasis in patients with classic plaque-type psoriasis.
- 14. Erythema toxicum neonatorum, a benign pustular eruption on a background of erythema, develops in about 20% of neonates shortly after birth.
- 15. The primary lesion of lichen planus is a flat-topped, pruritic, purple, polygonal papule.
- 16. Lichen planus frequently demonstrates the isomorphic response (Koebner phenomenon), which refers to the development of new lesions in sites of minor trauma.
- 17. Cutaneous sarcoidosis occurs in 20% to 35% of patients with sarcoidosis.
- 18. Heerfordt's syndrome, or uveoparotid fever, is a variant of sarcoidosis presenting as uveitis, facial nerve palsy, fever, and parotid gland swelling.
- 19. Consider a fixed drug eruption in a patient who presents with bullous or hyperpigmented lesions that are recurrent at the same site.
- 20. The clinical signs of a potentially life-threatening drug eruption include high fever, dyspnea or hypotension, angioedema and tongue swelling, palpable purpura, skin necrosis, blistering, mucous membrane erosions, confluent erythema, and lymphadenopathy.
- 21. Cytoplasmic antineutrophil cytoplasmic antibody (c-ANCA) is found in up to 90% of patients with granulomatosis with polyangiitis (Wegener's granulomatosis); high titers often correlate with increased disease activity.
- 22. Pretibial myxedema is associated with Graves' disease.
- 23. Life-threatening calciphylaxis usually occurs in the setting of renal disease.
- 24. Phototoxic reactions clinically and symptomatically resemble sunburn, while photoallergic reactions resemble dermatitis.

- 25. Photosensitive drug reactions may occur in either the UVA or UVB spectrum. Because UVA passes through window glass, patients may develop photosensitive drug reactions even while they are in their homes or cars.
- 26. Sunlight stimulates human epidermal melanocytes to increase melanin synthesis and stimulates increased melanocyte transfer of melanosomes to keratinocytes. This melanocyte response to sunlight is called *tanning*.
- 27. The action spectrum of sunlight that causes tanning is the ultraviolet spectrum (wavelengths 290 to 400 nm).
- 28. Lesions of erythema nodosum occur most commonly on the anterior lower legs (shins), while lesions of erythema induratum occur most commonly on the posterior lower legs (calves).
- 29. In widespread subcutaneous fat necrosis of the newborn, it is prudent to monitor calcium levels for the first 3 to 4 months of life.
- 30. An inflamed or scaly bald spot in a child should be considered tinea capitis unless proven otherwise.
- 31. Bacterial resistance to benzoyl peroxidase does not occur. Benzoyl peroxide used concomitantly with antimicrobial therapy for acne (as a leave-on or as a wash) is effective in limiting antibiotic resistance.
- 32. Drug-induced acne is caused most often by anabolic corticosteroids. It is differentiated from acne vulgaris by its sudden onset, distribution mainly on the upper trunk, and its monomorphous pustular appearance without comedones.
- 33. Gottron's papules (erythematous to violaceous papules over the knuckles) are a cutaneous finding that strongly supports a diagnosis of dermatomyositis.
- 34. Between 10% and 50% of adult patients that present with dermatomyositis have an underlying malignancy.
- 35. Chronic urticaria is most often idiopathic and not due to an allergic etiology, but it has an autoimmune basis in up to 50% of cases.
- 36. In angioedema without urticaria, one should screen for both hereditary and acquired angioedema by obtaining a C4 level.
- 37. Erythema infectiosum, caused by parvovirus B19, is characterized by bright erythema of the cheeks ("slapped cheeks") and a lacy erythematous eruption that most commonly affects the extremities.
- 38. Gianotti-Crosti syndrome and papular acrodermatitis of childhood are synonyms for a viral eruption characterized by the acute onset of a symmetrical, erythematous papular eruption that is accentuated on the face, extremities, and buttocks.
- 39. Asymptomatic shedding occurs in both orolabial and genital herpes simplex virus infections,
- 40. Postherpetic neuralgia is a common complication of herpes zoster, especially in older individuals.
- 41. Most human papillomavirus (HPV) infections are not carcinogenic, but persistent infections with some genotypes, especially HPV-16 and HPV-18, are associated with a high risk of epithelial neoplasia.
- 42. Syphilis is a sexually transmitted disease produced by the spirochete *Treponema pallidum* ssp. *pallidum* that can also be transmitted from the mother to the fetus.
- 43. Atypical mycobacteria infections are acquired from ubiquitous acid-fast bacilli that are found in soil, water, and domestic and wild animals. The presentation of these infections is variable, leading to frequently missed diagnoses.
- 44. Patients with tuberculoid leprosy have a high degree of immunity against *Mycobacterium leprae* and have few skin lesions and few organisms in their skin, while patients with lepromatous leprosy have low immunity against *M. leprae* and have many skin lesions and millions of organisms in their skin.
- 45. Azole antifungal agents block the cytochrome P-450 enzyme lanosterol $14-\alpha$ demethylase, which depletes ergosterol from cell membranes, whereas allylamine antifungals block ergosterol production through inhibition of squalene epoxidase.
- The differential diagnosis of lymphocutaneous (sporotrichoid) spread includes SLANTS;
 Sporotrichosis, Leishmaniasis, Atypical mycobacteria, Nocardia, Tularemia, and cat-Scratch disease.
- 47. While most cases of leishmaniasis seen in the United States are acquired elsewhere, a form of cutaneous disease caused by *Leishmania mexicana* may be acquired in central Texas and Oklahoma, nicknamed "Highway 90 disease" by those familiar with its distribution.

- 48. The brown recluse spider (Loxosceles reclusa) is the most common cause of dermonecrotic arachnidism.
- 49. Chevletiella is a nonburrowing mite that presents as "walking dandruff" on pets and manifests as nonspecific pruritic papules and plaques on affected patients.
- 50. Acanthosis nigricans is a common condition, and most cases are associated with insulin resistance. Paraneoplastic acanthosis nigricans is rare, may be of explosive onset, and associated with tripe palms and the sign of Leser-Trélat.
- 51. The presence of eruptive xanthomas always indicates the presence of high levels of serum. trialycerides.
- 52. Bilirubin has a strong affinity for tissues rich in elastic tissue, which is why it accumulates earliest in the sclera of the eve, followed by the skin (especially the face), hard palate, and abdominal wall,
- 53. Clinically apparent jaundice is not noticeable until the serum bilirubin exceeds 2.0 to 2.5 mg/dL in the adult.
- 54. Small vascular lesions called angiokeratoma corporis diffusum are most commonly found in a bathing suit distribution area. These angiokeratomas are characteristic of Fabry's disease, a genetic disorder that affects the kidney.
- 55. Nephrogenic systemic fibrosis is a recently described disease characterized by papules, plagues, and thickened skin of the trunk and extremities. It is associated with impaired renal function and deposition of gadolinium in tissues from gadolinium-based contrast media.
- 56. Atvoical molluscum contagiosum manifestations in the HIV-infected population include giant molluscum, disseminated lesions, confluent lesions, lesions distributed in atvoical sites such as the perianal area, and lesions mimicking warts, skin cancers, and keratoacanthomas.
- 57. The classic tetrad of pellagra all start with the letter D; diarrhea, dermatitis, dementia, death,
- 58. Casal's necklace is the distinctive photosensitive eruption seen in pellagra that presents as a "necklace" around the neck.
- 59. There appears to be a small increased risk (1% to 4%) of melanoma in patients with giant congenital melanocytic nevi greater than 40 cm in diameter adult predicted size.
- 60. Patients with a large number (>100) of atypical melanocytic nevi should be followed closely for the possible development of melanoma.
- 61. Kasabach-Merritt syndrome (platelet trapping and consumption coagulopathy associated with a vascular tumor) is seen with kaposiform hemangioendothelioma and tufted angioma.
- 62. Dermatofibromas often demonstrate dimpling with lateral pressure. This has been called a "dimple" or "Fitzpatrick" sign.
- 63. The presence of pigmentation extending onto the nail fold from a band of linear melanonychia (Hutchinson's sign) is a strong indication for biopsy and histopathologic evaluation of the nail matrix.
- 64. Mycosis fungoides is an indolent epidermotropic lymphoma with a median survival of 12 years for patients with patch- or plaque-stage disease.
- 65. Sézary syndrome is the term applied to the leukemic subtype of cutaneous T-cell lymphoma.
- 66. Merkel cell carcinoma is an aggressive neuroendocrine malignancy of the skin with frequent recurrences and metastasis.
- 67. Epithelioid sarcoma is an aggressive soft tissue malignacy that most commonly presents on the volar distal extremities of young adults as a slow-growing dermal or subcutaneous nodule.
- 68. Approximately 9% of all patients who die from internal malignancy will demonstrate metastatic tumors in the skin.
- 69. Reducing ultraviolet radiation exposure is the single best strategy for reducing skin cancer.
- 70. Approximately 2% total body surface area (TBSA) requires 1 fingertip unit (FTU) or 0.5 gram of topical steroid medication. One percent of the patient's TBSA can be estimated as 1 palmar surface, including the fingers.
- 71. The safe total maximum dose of 1% lidocaine for adults is 7 mg/kg if combined with epinephrine, and 4.5 mg/kg if given without epinephrine.

- 72. Damage to the temporal branch of the facial nerve when cutaneous surgery is performed will result in an ipsilateral brow ptosis and ipsilateral lack of forehead animation.
- 73. Mohs micrographic surgery is indicated for basal cell and squamous cell carcinomas arising on the face and other sites where the maximal preservation of normal skin and cosmesis are important goals.
- 74. The wavelengths of common lasers are as follows: KTP, 532 nm; pulsed dye, 585 nm; ruby, 684 nm; alexandrite, 755 nm; diode, 810 to 1450 nm; Nd:YAG, 1064 nm; erbium:YAG, 2490 nm; and carbon dioxide, 10,600 nm.
- 75. The pulsed dye laser is the gold standard for treatment of vascular lesions, but the KTP, Nd:YAG, and alexandrite lasers are also useful.
- 76. Narrowband UVB is now the phototherapy treatment of choice for psoriasis, vitiligo, and possibly mycosis fungoides (patch stage) and atopic dermatitis (in some experts' opinions), given its superior efficacy to broadband UVB and decreased side effects compared with oral PUVA.
- 77. Phototherapy exerts its effects primarily through immunomodulation (T-cell apoptosis within the epidermis and dermis, and suppression/depletion of Langerhans cells within the epidermis).
- 78. Systemic retinoids, which are used for the treatment of many cutaneous diseases, including acne vulgaris, psoriasis, and disorders of keratinization, are very potent teratogenic drugs.
- The TORCHES infections are Toxoplasmosis, Other (varicella-zoster virus, parvovirus B19),
 Rubella, Cytomegalovirus, Herpes simplex virus and HIV, Enteroviruses and Epstein-Barr virus, and Syphilis.
- The classic triad of congenital rubella syndrome consists of congenital cataracts, deafness, and congenital heart malformations.
- 81. Pyogenic granulomas are neither pyogenic nor granulomatous; they are neovascularizations.
- 82. Aging of the skin may be divided into that due to intrinsic aging (normal maturity and senescence) and that secondary to extrinsic aging (external factors such as ultraviolet light).
- 83. Xerosis (dry skin, asteatosis, dermatitis hiemalis) is the most common geriatric dermatosis and the most frequent cause of pruritus in the elderly.
- 84. The umbilical area is preferentially affected in pemphigoid gestationis and can be a clue to the diagnosis.
- 85. Circinate balanitis is a cutaneous manifestation of reactive arthritis (Reiter's disease).
- 86. Oral smokeless tobacco keratoses have little malignant potential, and the vast majority of such lesions are reversible if the tobacco habit is discontinued.
- 87. Human papillomavirus (HPV) is considered causal in nearly 20% of oral squamous cell carcinomas.
- 88. Erythema may be more difficult to appreciate on darkly pigmented skin, and this must be considered during clinical examination.
- 89. Pigmentation of the oral mucosa, benign-appearing palmoplantar macules, or multiple longitudinal pigmented streaks of the nails may represent normal variants in persons with darker skin types.
- 90. Many cutaneous diseases may present with follicular accentuation or other unusual clinical aspects in persons with darker skin types.
- 91. Skin signs of toxic epidermal necrolysis, a life-threatening mucocutaneous disease, include diffuse and severe skin tenderness and "cayenne pepper" nonblanching erythema that evolves into widespread blistering and superficial ulcers.
- 92. Contact dermatitis is the most common form of occupational skin disease, with irritant contact dermatitis being more common than allergic contact dermatitis.
- 93. Patients with delusions of parasitosis have monosymptomatic hypochondriacal psychosis; their other mental functions are typically normal.
- 94. Munchausen syndrome is a chronic factitious disorder in which patients totally fabricate their symptoms, self-inflict lesions, or exaggerate or exacerbate a preexisting physical condition.
- 95. Trauma is the most common cause of splinter hemorrhages of the nail.

- 96. Squamous cell carcinoma is the most common malignant tumor of the nail unit.
- 97. Cantharidin (C₁₀H₁₂O₄), a vesicant therapy for molluscum contagiosum and warts, is a semipurified extract from blister beetles from the family Meloidae.
- 98. The nine-banded armadillo (Dasypus novemcinctus) is an animal reservoir in the United States for Mycoacterium leprae, the cause of leprosy.
- 99. Tungiasis refers to parasitization by the gravid female flea (Tunga penetrans), which burrows into the skin where the eggs mature, and she passes them through an opening in the skin to the environment.
- 100. It has been calculated that we shed about 35,000 skin cells per minute, which calculates to more than 50 million per day!

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