placebo. Treatment should be started a day before expected menses and generally is continued for 2–3 days. Oral contraceptives also reduce symptoms of dysmenorrhea. The use of tocolytics, antiphosphodiesterase inhibitors, and magnesium has been suggested, but there are insufficient data to recommend them. Failure of response to NSAIDs and/or oral contraceptives is suggestive of a pelvic disorder such as endometriosis, and diagnostic laparoscopy should be considered to guide further treatment.

SECTION 9 ALTERATIONS IN THE SKIN

70 Approach to the Patient with a Skin Disorder

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The challenge of examining the skin lies in distinguishing normal from abnormal findings, distinguishing significant findings from trivial ones, and integrating pertinent signs and symptoms into an appropriate differential diagnosis. The fact that the largest organ in the body is visible is both an advantage and a disadvantage to those who examine it. It is advantageous because no special instrumentation is necessary and because the skin can be biopsied with little morbidity. However, the casual observer can be misled by a variety of stimuli and overlook important, subtle signs of skin or systemic disease. For instance, the sometimes minor differences in color and shape that distinguish a melanoma **(Fig. 70-1)** from a benign nevomelanocytic nevus **(Fig. 70-2)** can be difficult to recognize. A variety of descriptive terms have been developed that characterize cutaneous lesions **(Tables 70-1, 70-2, and Tables 70-3; Fig. 70-3)**, thereby aiding in their interpretation and in the formulation of a differential diagnosis **(Table 70-4)**. For example, the finding of scaling papules, which are present in psoriasis or atopic dermatitis, places the patient in a different diagnostic category than would hemorrhagic papules, which may indicate vasculitis or sepsis **(Figs. 70-4 and 70-5, respectively)**. It is also important to differentiate primary from secondary skin lesions. If the examiner focuses on linear erosions overlying an area of erythema and scaling, he or she may incorrectly assume that the erosion is the primary lesion and that the redness and scale are secondary, whereas the correct interpretation would be that the patient has a pruritic eczematous dermatitis with erosions caused by scratching.

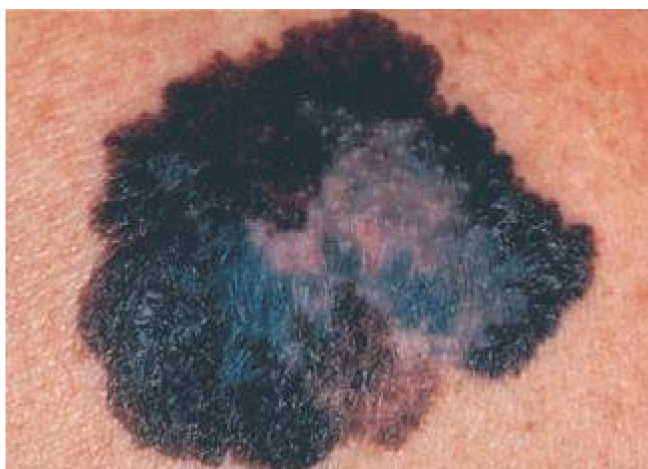

FIGURE 70-1 Superficial spreading melanoma. This is the most common type of melanoma. Such lesions usually demonstrate asymmetry, border irregularity, color variegation (black, blue, brown, pink, and white), a diameter >6 mm, and a history of change (e.g., an increase in size or development of associated symptoms such as pruritus or pain).

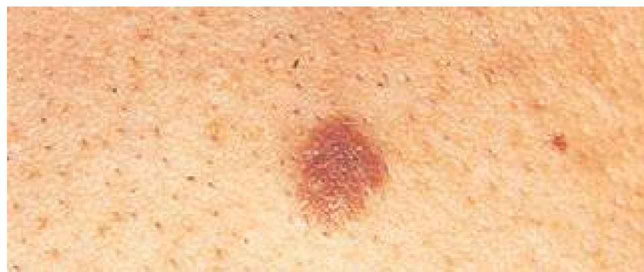

FIGURE 70-2 Nevomelanocytic nevus. Nevi are benign proliferations of nevomelanocytes characterized by regularly shaped hyperpigmented macules or papules of a uniform color.

TABLE 70-1 DESCRIPTION OF PRIMARY SKIN LESIONS
Macule: A flat, colored lesion, <2 cm in diameter, not raised above the surface of the surrounding skin. A "freckle," or ephelid, is a prototypical pigmented macule.
Patch: A large (>2-cm) flat lesion with a color different from the surrounding skin. This differs from a macule only in size.
Papule: A small, solid lesion, <0.5 cm in diameter, raised above the surface of the surrounding skin and thus palpable (e.g., a closed comedone, or whitehead, in acne).
Nodule: A larger (0.5- to 5.0-cm), firm lesion raised above the surface of the surrounding skin. This differs from a papule only in size (e.g., a large dermal nevomelanocytic nevus).
Tumor: A solid, raised growth >5 cm in diameter.
Plaque: A large (>1-cm), flat-topped, raised lesion; edges may either be distinct (e.g., in psoriasis) or gradually blend with surrounding skin (e.g., in eczematous dermatitis).
Vesicle: A small, fluid-filled lesion, <0.5 cm in diameter, raised above the plane of surrounding skin. Fluid is often visible, and the lesions are translucent (e.g., vesicles in allergic contact dermatitis caused by *Toxicodendron* [poison ivy]).
Pustule: A vesicle filled with leukocytes. Note: The presence of pustules does not necessarily signify the existence of an infection.
Bulla: A fluid-filled, raised, often translucent lesion >0.5 cm in diameter.
Wheal: A raised, erythematous, edematous papule or plaque, usually representing short-lived vasodilation and vasopermeability.
Telangiectasia: A dilated, superficial blood vessel.

TABLE 70-2 DESCRIPTION OF SECONDARY SKIN LESIONS
Lichenification: A distinctive thickening of the skin that is characterized by accentuated skin-fold markings.
Scale: Excessive accumulation of stratum corneum.
Crust: Dried exudate of body fluids that may be either yellow (i.e., serous crust) or red (i.e., hemorrhagic crust).
Erosion: Loss of epidermis without an associated loss of dermis.
Ulcer: Loss of epidermis and at least a portion of the underlying dermis.
Excoriation: Linear, angular erosions that may be covered by crust and are caused by scratching.
Atrophy: An acquired loss of substance. In the skin, this may appear as a depression with intact epidermis (i.e., loss of dermal or subcutaneous tissue) or as sites of shiny, delicate, wrinkled lesions (i.e., epidermal atrophy).
Scar: A change in the skin secondary to trauma or inflammation. Sites may be erythematous, hypopigmented, or hyperpigmented depending on their age or character. Sites on hair-bearing areas may be characterized by destruction of hair follicles.