TABLE 70-3 COMMON DERMATOLOGIC TERMS

Alopecia: Hair loss, partial or complete.
Annular: Ring-shaped.
Cyst: A soft, raised, encapsulated lesion filled with semisolid or liquid contents.
Herpetiform: In a grouped configuration.
Lichenoid eruption: Violaceous to purple, polygonal lesions that resemble those seen in lichen planus.
Milia: Small, firm, white papules filled with keratin.
Morbilliform rash: Generalized, small erythematous macules and/or papules that resemble lesions seen in measles.
Nummular: Coin-shaped.
Poikiloderma: Skin that displays variegated pigmentation, atrophy, and telangiectases.
Polycyclic lesions: A configuration of skin lesions formed from coalescing rings or incomplete rings.
Pruritus: A sensation that elicits the desire to scratch. Pruritus is often the predominant symptom of inflammatory skin diseases (e.g., atopic dermatitis, allergic contact dermatitis); it is also commonly associated with xerosis and aged skin. Systemic conditions that can be associated with pruritus include chronic renal disease, cholestasis, pregnancy, malignancy, thyroid disease, polycythemia vera, and delusions of parasitosis.

APPROACH TO THE PATIENT: Skin Disorder

In examining the skin it is usually advisable to assess the patient before taking an extensive history. This approach ensures that the entire cutaneous surface will be evaluated, and objective findings can be integrated with relevant historical data. Four basic features of a skin lesion must be noted and considered during a physical examination: the *distribution* of the eruption, the *types* of primary and secondary lesions, the *shape* of individual lesions, and the *arrangement* of the lesions. An ideal skin examination includes evaluation of the skin, hair, and nails as well as the mucous membranes of the mouth, eyes, nose, nasopharynx, and anogenital region. In the initial examination, it is important that the patient be disrobed as completely as possible to minimize chances of missing important individual skin lesions and permit accurate assessment of the distribution of the eruption. The patient should first be viewed from a distance of about 1.5–2 m (4–6 ft) so that the general character of the skin and the distribution of lesions can be evaluated. Indeed, the distribution of lesions often correlates highly with diagnosis (Fig. 70-6). For example, a hospitalized patient with a generalized erythematous exanthem is more likely to have a drug eruption than is a patient with a similar rash limited to the sun-exposed portions of the face. Once the distribution of the lesions has been established, the nature of the primary lesion must be determined. Thus, when lesions are distributed on elbows, knees, and scalp, the most likely possibility based solely on distribution is psoriasis or dermatitis herpetiformis (Figs. 70-7 and 70-8, respectively). The primary lesion in psoriasis is a scaly papule that soon forms erythematous plaques covered with a white scale, whereas that of dermatitis herpetiformis is an urticarial papule that quickly becomes a small vesicle. In this manner, identification of the primary lesion directs the examiner toward the proper diagnosis. Secondary changes in skin can also be quite helpful. For example, scale represents excessive epidermis, while crust is the result of a discontinuous epithelial cell layer. Palpation of skin lesions can yield insight into the character of an eruption. Thus, red papules on the lower extremities that blanch with pressure can be a manifestation of many different diseases, but hemorrhagic red papules that do not blanch with pressure indicate palpable purpura characteristic of necrotizing vasculitis (Fig. 70-4).

The shape of lesions is also an important feature. Flat, round, erythematous papules and plaques are common in many cutaneous diseases. However, target-shaped lesions that consist in part of erythematous plaques are specific for erythema multiforme (Fig. 70-9). Likewise, the arrangement of individual lesions is important. Erythematous papules and vesicles can occur in many conditions, but their arrangement in a specific linear array suggests an external etiology such as allergic contact dermatitis (Fig. 70-10) or primary irritant dermatitis. In contrast, lesions with a generalized arrangement are common and suggest a systemic etiology.

As in other branches of medicine, a complete history should be obtained to emphasize the following features:

1. Evolution of lesions
   a. Site of onset
   b. Manner in which the eruption progressed or spread
   c. Duration
   d. Periods of resolution or improvement in chronic eruptions
2. Symptoms associated with the eruption
   a. Itching, burning, pain, numbness
   b. What, if anything, has relieved symptoms
   c. Time of day when symptoms are most severe
3. Current or recent medications (prescribed as well as over-the-counter)
4. Associated systemic symptoms (e.g., malaise, fever, arthralgias)
5. Ongoing or previous illnesses
6. History of allergies
7. Presence of photosensitivity
8. Review of systems
9. Family history (particularly relevant for patients with melanoma, atopy, psoriasis, or acne)
10. Social, sexual, or travel history

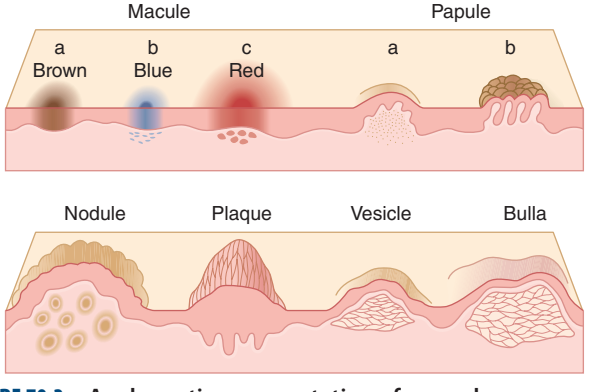

FIGURE 70-3 A schematic representation of several common primary skin lesions (see Table 70-1).

DIAGNOSTIC TECHNIQUES

Many skin diseases can be diagnosed on the basis of gross clinical appearance, but sometimes relatively simple diagnostic procedures can yield valuable information. In most instances, they can be performed at the bedside with a minimum of equipment.

Skin Biopsy A skin biopsy is a straightforward minor surgical procedure; however, it is important to biopsy a lesion that is most likely to yield diagnostic findings. This decision may require expertise in skin diseases and knowledge of superficial anatomic structures in selected areas of the body. In this procedure, a small area of skin is anesthetized with 1% lidocaine with or without epinephrine. The skin lesion in question can be excised or saucerized with a scalpel or removed by punch biopsy. In the latter technique, a punch is pressed against the surface of the skin and rotated with downward pressure until it penetrates to the subcutaneous tissue. The circular biopsy is then lifted with forceps, and the bottom is cut with iris scissors. Biopsy sites may or may not need suture closure, depending on size and location.