## Orthopaedics

Principles and Their Application

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resections are required in addition to soft tissue procechanges have created a rigid unyielding deformity, bone standing muscle imbalance (e.g., calcaneus deformity in paralysis of the triceps surae). After structural bone associated, and structural bone changes develop in longmuscles and of the plantar aponeurosis are frequently subluxation. Within the foot, contractures of the calf surface is associated with genu recurvatum and posterior knee, abnormal anterior inclination of the upper tibial pelvis and lumbar spine become distorted and therefore acetabular rim and may subluxate and dislocate. prevent full correction of scoliosis and forward pelvic opposite hip, the femoral head may repeatedly erode the inclination by release of soft tissue contractures. At the coxa valga and anteversion develop at the hip; in the at an early date by soft tissue procedures. At a late date The

that is only partially paralyzed. For example, a hip flexion A deformity can reduce the effectiveness of a muscle

> gluteus maximus power can be redeveloped. muscle fibers. Once the hip flexion deformity is overcome, will interfere with the action of residual functioning contracture in the presence of a weak gluteus maximus

objective is to improve good balance, stability, and gait. of procedures in the proper sequence be prepared. The for correcting each be properly evaluated and a schedule lower extremities makes it mandatory that the potential The multiplicity of deforming factors throughout the

If the spine fusion is done initially, the scoliotic and only after deformities of the hip and knee are corrected scoliosis and lordosis. Spine fusion can be undertaken body balance and should precede the correction of the about the hip is absolutely essential to restoring good formity and providing good abductor and extensor power back can be considered. Overcoming a hip flexion deother surgical procedures about the knee, foot, and lower balance appears to have priority before the feasibility of Correction of hip deformity and reestablishing muscle

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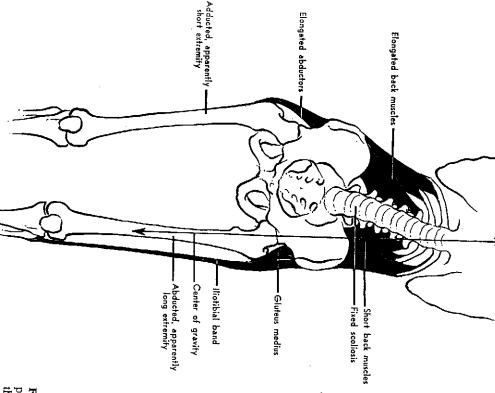
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tralateral muscles. the center of gravity, and stretched, elongated conpelvic obliquity, lumbar scoliosis, displacement of FIG. 14-33. (Iliotibial band contracture) showing

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