### TABLE 18-4 Waddell's Signs

<table>
<thead>
<tr>
<th>TEST</th>
<th>SIGNS</th>
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| Tenderness                  | Superficial—the patient's skin is tender to light pinch over a wide area of lumbar skin  
Nonanatomic—deep tenderness felt over a wide area, not localized to one structure |
| Simulation Tests            | Axial loading—light vertical loading over patient's skull in the standing position causes lumbar pain  
Acetabular rotation—back pain is reported when the pelvis and shoulders are passively rotated in the same  
plane as the patient stands; considered to be a positive test result if pain is reported within the first 30 degrees |
| Distraction Tests           | Straight-leg-raise discrepancy—marked improvement of straight-leg raising on distraction compared with formal testing  
Double-leg raise—when both legs are raised after straight-leg raising, the organic response is a greater degree of double-leg raising: patients with a nonorganic component demonstrate less double-leg raise compared with the single-leg raise |
| Regional Disturbances       | Weakness, cogwheeling, or giving way of many muscle groups that cannot be explained on a neurologic basis  
Sensory disturbance—diminished sensation fitting a “stocking” rather than a dermatomal pattern |
| Overreaction                | Disproportionate verbalization, facial expression, muscle tension and tremor, collapsing, or sweating |