Designed to assess balance and diagnose stability problems, Tetrax is the only system available that measures balance at four different reference points, each yielding separate signals of pressure fluctuations. This enables the evaluation of sway patterns for each of the four foot parts and assessment of the interaction between them, obtaining, in addition to traditional measures of stability, new parameters of postural control such as synchronizations, diagonal weight shifts, and weight distribution harmony. These balance parameters, which provide important diagnostic information for the physician, are not available on any other posturographic device.

Revealing the sources of instability
Vertigo and dizziness; whiplash injuries; stroke injuries; fatigue problems; drug interactions; intoxication; all of these problems indicate a need for balance testing. With instability leading to orthopedic problems and falls, balance testing is vital for these patients’ quality of life. An accurate assessment of balance, carried out at the physician’s office, can forestall health problems by revealing the sources of disability, and guide the physician in choosing treatment and rehabilitation options for his patients.
Studies carried out with Tetrax in research centers and hospitals around the world have shown that the device can accurately diagnose stability problems and pinpoint their source. Results, which reflect a number of parameters in addition to general stability, are more sensitive and more exact than results produced by traditional static and dynamic posturography. These studies measured stability in healthy normal populations (including analysis of pilots and effects of fatigue and various drugs) and sick populations (suffering from dizziness, frequent falls, diabetes, etc.), indicating wide applicability and utility of the device.

**Clinical Established**

Up to 50% of senior citizens are at risk of falling and 20-30% of all adults suffer from episodes of dizziness at least once a year. These balance problems can lead to falls and ultimately to hip fractures, a major health concern with broad implications which frequently leads to loss of independence. Tetrax serves as an essential diagnostic tool for all patients at risk for osteoporosis and low-trauma fractures by providing balance testing for the evaluation of fall risk, which serves, alongside bone strength measured by Sunlight Omnisense, as an important factor in physicians’ decisions about osteoporosis treatment.

**Sunlight Medical**

Sunlight Medical Ltd. is an international company with worldwide sales activities. Sunlight develops, manufactures, and markets advanced, high-technology devices for use at primary care facilities and hospitals.

**References**