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**THE RELATION BETWEEN FORCE, VELOCITY AND
INTEGRATED ELECTRICAL ACTIVITY IN HUMAN
MUSCLES**

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When a voluntary isometric contraction of a muscle is made, the electrical activity, measured by integrating the action potentials from surface electrodes, bears a linear relation to the tension that is being exerted (Lippold, 1952). This relation has been demonstrated in human subjects for most of the larger muscles and those smaller muscles with short tendons. Certain muscles, including tibialis anterior, however, follow a quadratic relation rather than a linear one (Edwards & Hardy, personal communication). This might be due to stretching of long tendons and their retinacula during strong contractions allowing substantial internal shortening. It therefore seemed desirable to investigate the problem when the muscle was actually changing in length.

Previous attempts to establish a relation between the tension in a voluntary isotonic contraction of muscle and some arbitrary feature of its electromyogram have proved abortive, probably because the velocity of the movement was uncontrolled; it might be predicted from Hill's (1938) equation relating force and velocity—which can be applied to human muscle (Wilkie, 1949)—that the faster a muscle shortens the more electrical activity would be associated with a given tension. If, on the other hand, the muscle is lengthened during its contraction, the tension is independent of the velocity (Abbott & Aubert, 1951). The recent experiments of Abbott, Bigland & Ritchie (1952) and of Abbott & Bigland (1953), on subjects whose leg muscles were working at different forces and velocities, showed that the oxygen consumption increased rapidly with increasing velocities of shortening at constant force, but remained about the same when they were being stretched. The assumption was made that any increase of oxygen consumption was a direct reflexion of the number of active motor units and their frequency of excitation.

The degree to which a muscle is excited determines both the electrical activity it displays and the isometric tension it can exert. It has been shown



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