The Art and Science of Muscle Palpation

When performing clinical orthopedic massage on a client, having an accurate assessment of the tone and health of each of the muscles is imperative. After all, with orthopedic massage, working to loosen tight muscles is usually our main objective. Probably the two most common presenting complaints of a client are stiffness, in other words loss of range of motion, and pain. By massaging tight muscles, we strive to relieve pain and restore range of motion. To make an accurate assessment and know which muscles need to be worked requires a number of assessment skills. Foremost among these is muscle palpation. Muscle palpation can be broken into two parts. The first part is locating the target muscle that we are looking to find. Once accurately located, the second part is to assess its health, in other words feeling for its tone by determining whether it is tight or loose. Although assessing the tone of the muscle is clearly the most important aspect of palpation, it cannot be performed unless we first determine with certainty where the target muscle is located. Effective massage usually requires working a muscle from attachment to attachment. But if we are not quite sure exactly where the borders of a muscle are, how do we know when we are working it and when we aren’t. Further, if a client presents with a tight area, and we cannot determine exactly what muscle or muscles are involved, then how can we counsel the client as to what activities likely caused their problem?

So, the key to effective muscle palpation for orthopedic massage lies in being able to accurately locate each of the target muscles. And for each target muscle, there is a palpation protocol that can be performed to accomplish this. Unfortunately, muscle palpation is often not well learned by students and therapists alike. As a matter of course, it is often presented in textbooks and taught in the classroom as a series of protocols that are memorized instead of being understood. As with most things that are memorized, they are often forgotten or become fuzzy in time, leaving us with weak palpation assessment skills.

The art and science of muscle palpation lies in the fact that muscle palpation protocols do not need to be memorized; rather they can be reasoned out by learning some basic common sense guidelines. Knowledge of these guidelines then allows us to figure out how to palpate each muscle of the body, equipping us to become powerful and effective clinical orthopedic therapists! The focus of this article is to discuss a few of the fundamental guidelines that are necessary when learning the art and science of muscle palpation.
The Art of Muscle Palpation:

The first two guidelines are what can be called the science of muscle palpation because they are based on knowing the attachment and action information of the target muscle that we learned in our science (anatomy and physiology/kinesiology) classes. **Guideline #1** is to use our knowledge of the attachments of the muscle to know where to place our palpating fingers. For example, if we are palpating the deltoid, then knowing that it attaches from the lateral clavicle, acromion process, and spine of the scapula, to the deltoid tubercle on the humerus allows us to place our palpating fingers on it (Figure 1a). However, as we explore this muscle, how do we know if at a certain point we have strayed off it and are now on a different muscle? Further, if instead of the deltoid our target muscle is deep instead of superficial, how do we know that we are palpating it and not adjacent musculature? In these cases, it is helpful to utilize **Guideline #2** which is to know the action(s) of the muscle to have the client engage it and make it contract. In the case of the deltoid, we can ask her to abduct her arm at the glenohumeral joint (Figure 1b). The deltoid contracts and becomes palpably harder and we can easily feel the entirety of the muscle, discerning it from the adjacent soft tissues. These first two guidelines form the fundamental basis for locating a target muscle. They require that we either recall the attachments and actions that we have learned, or go back and look them up.

Beginning the Art of Muscle Palpation

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