

(a) The tongue arch model

(b) The ancient model

Fig. 1 The tongue arch model assigns a position of the top of the tongue arch to each vowel. Raising, lowering, advancing and retracting the tongue arch anywhere within the quadrilateral yields a new vowel. The ancient model recognized three basic tongue manoeuvres (palatal, velar, pharyngeal), jaw position and lip position.

S. Wood (1982). X-ray and model studies of vowel articulation. Lund Working Papers, 23: 1-49.