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Barycentric extensions of monotone degree ± 1 maps of the circle were studied by Abikoff, Earle and Mitra (Contemp. Math. 355(2004) 1-20) following earlier work of Abikoff and Ye and Milnor. We show that, using the formalism of moebius transformations with entries in Clifford algebras, the technique extends to higher dimensional real hyperbolic spaces. We will also discuss MAY iterations in complex hyperbolic space. (Received July 26, 2010)