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Robert Haslhofer* (robert.haslhofer@gmail.com), University of Toronto, and **Or Hershkovits**, Courant Institute of Mathematical Sciences. *Mean convex level set flow in general ambient manifolds.*

We prove two new estimates for the level set flow of mean convex domains in Riemannian manifolds. Our estimates give control - exponential in time - for the infimum of the mean curvature, and the ratio between the norm of the second fundamental form and the mean curvature. In particular, the estimates remove a stumbling block that has been left after the work of White and Haslhofer-Kleiner, and thus allow us to extend the structure theory for mean convex level set flow to general ambient manifolds of arbitrary dimension. (Received August 10, 2015)