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Nadine Badr (badr@math.univ-lyon1.fr), Institut Camille Jordan, Universite Claude Bernard Lyon 1, 43 boulevard du 11 novembre 1918, F-69622 Villeurbanne, France, and **Galia Dafni*** (gdafni@mathstat.concordia.ca), Department of Mathematics & Statistics, Concordia University, 1455 de Maisonneuve Blvd. West, Montreal, Quebec H3G1M8, Canada. *Hardy-Sobolev spaces on manifolds.*

We will discuss Hardy-Sobolev spaces on a Riemannian manifold with a doubling measure, and show that the definitions given by means of atomic decomposition and by means of various maximal functions give the same space, which can be identified with the Hajlasz Sobolev space for $p = 1$, provided we assume a Poincare inequality. (Received February 23, 2010)