1010-35-139 Carlos J Almada* (almada_carlos@colstate.edu), Department of Mathematics, Columbus State University, 4225 University Ave., Columbus, GA 31907. A remark on a result by Kato. In this work we show how some of the ideas developed by Kato in his theory of evolution equations to solve the Cauchy problem for quasi-linear hyperbolic equations can be applied to solve a similar problem in the context on semilinear wave equations on globally hyperbolic manifolds $(M^{1+n} = I\!\!R \times S, g)$. To prove our results we make some assumptions on the manifold S to guarantee that the usual Sobolev embedding theorems and properties of uniformly local Sobolev spaces introduced by Kato are satisfied on S. (Received August 23, 2005)