ABSTRACT. This is a continuation of [Wang1], where it was shown that K-equivalent complex projective manifolds have the same Betti numbers by using the theory of *p*-adic integrals and Deligne's solution to the Weil conjecture. The aim of this note is to show that with a little more book-keeping work, namely by applying Faltings' *p*-adic Hodge Theory, our *p*-adic method also leads to the equivalence of Hodge numbers — a result which was previously known via motivic integration.