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Torrey M Gallagher* (tmg012@bucknell.edu). *The demiclosedness principle for mean nonexpansive mappings.*

In 1967 and 1968, Opial and Browder (respectively) proved their well-known versions of the Demiclosedness Principle for nonexpansive mappings. We will present a generalization of these theorems, which is due to the present author and has recently appeared in the Journal of Math Analysis & Applications, to the class of mean nonexpansive mappings. As a corollary, we will also discuss a theorem regarding weak convergence of the sequence of iterates of a mean nonexpansive mapping in the presence of asymptotic regularity at a point. (Received July 21, 2016)