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**Hassan Sedaghat\*** ([hsedagha@vcu.edu](mailto:hsedagha@vcu.edu)), Department of Mathematics, Virginia Commonwealth University, P.O. Box 842014, Richmond, VA 23284-2014. *The dynamics of a discrete model of pulse propagation in a ring of cardiac tissue.*

We discuss the dynamic behavior of a nonautonomous difference equation of arbitrary order  $m$  that is derived from a discrete model of pulse propagation in a ring of excitable media, such as cardiac tissue. The discussion may include related but more general results where needed and some open problems. (Received September 22, 2005)