



SOURCES

- 1 Lukl J, Doupal V, Sovova E, Lubena L. Incidence and significance of chronotropic incompetence in patients with indications for primary pacemaker implantation or pacemaker replacement. *PACE*. 1999; 22(9):1284-1291.
- 2 Gwinn N, Leman R, White JK, Zile MR, Gillette P. Chronotropic incompetence: a common and progressive finding in pacemaker patients. *Am Heart J*. 1992; 123(5):1216-1219.
- 3 Chronotropic competence is defined by the Model of the Cardiac Chronotropic Response to Exercise. Wilkoff B, Corey J, Blackburn G. A mathematical model of the cardiac chronotropic response to exercise. *Journal of Electrophysiology*. 1989;3:176-180. Refer to the Physician's System Guide for more information on adaptive-rate therapy. Additional clinical performance was assessed using INSIGNIA™ Ultra clinical data with the AutoLifestyle feature programmed ON. Data on file. Boston Scientific Corporation. ALTRUA 60 Pacemaker System Guide. 2008:1-20–1-25.
- 4 Lukl J, Doupal V, Sovova E, Lubena L. Incidence and significance of chronotropic incompetence in patients with indications for primary pacemaker implantation or pacemaker replacement. *PACE*. 1999; 22(9):1284-1291.
- 5 ESC 2007 Guidelines for cardiac pacing and cardiac resynchronization therapy (*Europace* (2007) 9, 959 –998 doi: 10.1093/europace/eum189); (pages 963-965)
- 6 Gwinn N, Leman R, White JK, Zile MR, Gillette P. Chronotropic incompetence: a common and progressive finding in pacemaker patients. *Am Heart J*. 1992; 123(5):1216-1219.
- 7 C. Melzer, J. Witte, et al. Predictors of chronotropic incompetence in the pacemaker patient population. *Europace* (2006) 8, 70–75
- 8 Chronotropic competence is defined by the Model of the Cardiac Chronotropic Response to Exercise, Wilkoff et al. A mathematical model of the cardiac chronotropic response to exercise. *Journal of Electrophysiology* 1989;3: 176-180
- 9 Mianulli M, Birchfi eld D, Yakimow K, et al. Do elderly pacemaker patients need rate adaptation – implications of daily heart rate behavior in normal adults. *PACE*. 1996; 19 (pt II):681 (abstract).
- 10 Chronotropic competence is defined by the Model of the Cardiac Chronotropic Response to Exercise. Wilkoff B, Corey J, Blackburn G. A mathematical model of the cardiac chronotropic response to exercise. *Journal of Electrophysiology*. 1989;3:176-180. Refer to the Physician's System Guide for more information on adaptive-rate therapy. Additional clinical performance was assessed using INSIGNIA™ Ultra clinical data with the AutoLifestyle feature programmed ON. Data on file. Boston Scientific Corporation. ALTRUA 60 Pacemaker System Guide. 2008:1-20–1-25.