

Author's Reply

Dear Editor,

We have read the letter to the editor with great interest. Firstly, thank you for your gentle compliments and constitutive comments on the paper (1). We think that author detected very important finding in our manuscript.

Even though we suppose all content of low-density lipoprotein-cholesterol (LDL-C) molecules are the same in clinical practice, because of significant differences between the LDL-C measurement methods in the laboratory, there are various different LDL molecules. As is known, when the Friedewald formula was used, LDL-C molecules include intermediate-density lipoprotein (2). In addition, a new formula was defined for measurement of LDL-C (3) recently.

We are planning a new study with greater patient size according to the suggestion of the author, and we plan to use our formula (CHOLINDEX) in all of the old and new LDL-C measurement formulas (Friedewald, de Cordova CM) and ultracentrifugation followed by beta-quantitation methods.

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References

1. Akpinar O, Bozkurt A, Acartürk E, Seydaoğlu G. A new index (CHOLINDEX) in detecting coronary artery disease risk. Anadolu Kardiyol Derg 2013; 13: 315-9.
2. Friedewald WT, Levy RI, Fredrickson DS. Estimation of the concentration of low-density lipoprotein cholesterol in plasma, without use of the preparative ultracentrifuge. Clin Chem 1972; 18: 499-502.
3. De Cordova CM, de Cordova MM. A new accurate, simple formula for LDL-cholesterol estimation based on directly measured blood lipids from a large cohort. Ann Clin Biochem 2013; 50: 13-9. [CrossRef](#)

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Does left ventricular function deteriorate in patients with nasal polyposis?

Nazal polipozisli hastalarda sol ventrikül fonksiyonları bozuluyor mu?

Dear Editor,

We read with great interest the recent article entitled "Evaluation of right ventricular functions in patients with nasal polyposis: an observational study" written by Şimşek et al. (1). They aimed to assess the right ventricular functions in patients with nasal polyposis using the strain and strain rate echocardiography. They showed a subclinical deficit of the right ventricular longitudinal functions in patients with nasal polyposis who are considered to have normal right ventricular

functions. We believe that these findings will enlighten further studies about echocardiographic evaluation of patients with nasal polyposis. Thanks to the authors for their valuable contribution.

Nasal polyposis (NP) is a chronic inflammatory disorder of nasal and sinus mucosa. Larger nasal polyps can block nasal passage and may result in hypoxia and hypercapnia. Cardiovascular complications of NP depend on chronic upper airway obstruction. It has been clearly shown that right ventricle function is impaired in various diseases due to chronic hypoxia (2). However, there is little information on the left ventricular (LV) function in patients with chronic hypoxia. Although LV systolic function was preserved, diastolic function was impaired in hypoxia. Ventricular interaction may impair LV diastolic function (3). Obstructive sleep apnea is another cause of chronic hypoxia and can lead to cardiovascular disturbances. Altekin et al. (4) evaluated LV longitudinal functions with two-dimensional strain echocardiography and showed that OSA deteriorates LV systolic function, and the degree of deterioration is proportionate with the disease severity.

The current study (1) assessed the right ventricular function using the strain and strain rate echocardiography but not LV function. We strongly believe that future large-scale prospective studies are needed to examine the LV function in patients with NP. On the other hand, it would be better, if they also evaluated right ventricular function using several parameters including right ventricular index of myocardial performance, tricuspid annular plane systolic excursion, and myocardial acceleration during isovolumic contraction, right ventricular fractional area change. Because these quantitative measurement are simple and reproducible, and they does not require sophisticated equipment or prolonged image analysis.

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References

1. Şimşek E, Şimşek Z, Taş MH, Kucur C, Günay E, Uçuncu H. Evaluation of right ventricular functions in patients with nasal polyposis: an observational study. Anadolu Kardiyol Derg 2013; 13: 251-6.
2. Duman D, Naiboğlu B, Esen HS, Toros SZ, Demirtunç R. Impaired right ventricular function in adenotonsillar hypertrophy. Int J Cardiovasc Imaging 2008; 24: 261-7. [CrossRef](#)
3. Itoh A, Tomita H, Sano S. Doppler echocardiographic assessment of left ventricular diastolic function in chronic hypoxic rats. Acta Med Okayama 2009; 63: 87-96.
4. Altekin RE, Yanıkoglu A, Karakaş MS, Özel D, Yıldırım AB, Kabukçu M. Evaluation of subclinical left ventricular systolic dysfunction in patients with obstructive sleep apnea by automated function imaging method; an observational study. Anadolu Kardiyol Derg 2012; 12: 320-30.

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Author's Reply

Dear Editor,

We have read the letter to the editor with great interest. Firstly, thank you for your comments about our paper published in The Anatolian Journal of Cardiology (1).

If the patients with nasal polyposis left untreated, it could affect firstly right ventricle functions and then it could cause cardiovascular complications. However, at the present time there is not any cut-off value (for hypoxia and pulmonary arterial pressure value) for these cardiovascular complications. Vonk-Noordegraaf et al. (2) reported that left ventricle functions preserved in chronic obstructive pulmonary disease patients with mild hypoxemia by a study with MRI (magnetic resonance imaging). Amano et al. (3) showed left ventricle systolic functions did not change and irresponsive to even if right ventricle systolic pressures decreased in patients with pulmonary hypertension. In chronic hypoxemia it is expected that primarily effects on left ventricle diastolic functions. Increased right ventricle pressures and volume overload deviate interventricular septum to the left and decrease left ventricular filling and this could cause diastolic dysfunction (4). This effect compensates by increased atrial contraction in patients with chronic and mild pulmonary hypertension. However in acute and excessive pressure overload it could not compensate and develops diastolic dysfunction (5). Patient group of our study included chronic and mild pulmonary hypertension (31.2 ± 5.8 mmHg) patients.

Right ventricular functions can be evaluated by different echocardiographic techniques (RV MPI, TAPSE, RV IVA, RV FAC etc.). At the present time the most important limitations of conventional echocardiographic measurements are relation with operator and subjective values of measurements. Strain-strain rate echocardiographic evaluation of right ventricle functions are effective techniques because of minimal operator dependency and very low intra-interobserver variability rates (6, 7). Therefore, in our study we choose these techniques for evaluation of right ventricle functions.

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References

- Simşek E, Simşek Z, Taş MH, Kucur C, Günay E, Uçuncu H. Evaluation of right ventricular functions in patients with nasal polyposis: an observational study. Anadolu Kardiyol Derg 2013; 13: 251-6.
- Vonk-Noordegraaf A, Marcus JT, Holverda S, Roseboom B, Postmus PE. Early changes of cardiac structure and function in COPD patients with mild hypoxemia. Chest 2005; 127: 1898-903. [\[CrossRef\]](#)
- Amano H, Toyoda S, Arikawa T, Inami S, Otani N, Nishi Y, et al. Left ventricular function in pulmonary hypertension. Heart Vessels 2012; 12: 505-9.
- Morris-Thurgood JA, Frenneaux MP. Diastolic ventricular interaction and ventricular diastolic filling. Heart Fail Rev 2000; 5: 307-23. [\[CrossRef\]](#)
- Allemann Y, Rotter M, Hutter D, Lipp E, Sartori C, Scherrer U, et al. Impact of acute hypoxic pulmonary hypertension on LV diastolic function in healthy mountaineers at high altitude. Am J Physiol Heart Circ Physiol 2004; 286: 856-62.
- Voight JU, Exner B, Schmiedehausen K, Huc U, Hertzmeier C, Reulbach U, et al. Strain rate imaging during dobutamine stress echocardiography provides objective evidence of inducible ischemia. Circulation 2003; 107: 2120-6. [\[CrossRef\]](#)
- Gondi S, Dokainish H. Right ventricular tissue Doppler and strain imaging: Ready for clinical use? Echocardiography 2007; 24: 522-32. [\[CrossRef\]](#)

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Kalp projesi: Bir ücret-yararlı hayat kurtarma yöntemi

The heart project: a cost-effective method to save a life

Üst solunum yolunun tam tıkanıklığının bir tıbbi acil durum olduğunu hepimiz biliyoruz. Üst solunum yolu tam tıkanıklığında sağlık çalışanlarının her vakaya yanında yetişmesi mümkün olmadıktan, yıllar önce Hemlich tarafından topluma öğretilmek üzere bir manevra tanımlanmıştır. Toplum tabanlı bu ilk yardım yöntemi ile her yıl dünyada 50 bin insan hayatının kurtarıldığı tahmin edilmektedir. Anı Kalp Durması bir başka tıbbi acil durumdur ve Hemlich manevrasında olduğu gibi; "sürekli kalp masajının" da topluma öğretilmesi ile binlerce hayat kurtarılabilir.

Asistanlık yıllarında 1:5 olan suni teneffüs kalp masajı oranı, şimdi 2:30 oranına gerilerken, ABC (Airway, Breathing, Compression) şeklindeki yeniden canlandırma (CPR) alfabesi de saygın kılavuzlarda 2010 yılından itibaren CBA olarak güncellenmiştir. Toplum tabanlı CPR yöntemlerinde de suni teneffüs giderek önemini yitirmektedir. İngiliz Kalp Vakfı gibi alanında saygın kurumlar bu yıl toplum tabanlı ilk yardım kılavuzlarından suni teneffüsü çıkarmaya başladılar.

İlk asistanlık yıllarından beri hayal ettiğim Kalp Projesi'ni 13 Aralık 2011 tarihinde Erzincan'da İl Sağlık Müdürlüğü onayı ile resmen hayatı geçirdim. Kalp Projesi "sadece eller" sloganı ile Anı Kalp Durması durumunda ambulans gelene kadar toplum tarafından sadece sürekli kalp masajı yapılmasını savunuyor.

Kalp Projesi'nde amacımız Erzincan'da 10 bin ve Türkiye'de 10 milyon kişiye kalp masajı öğretmektir. Yirmi yılın sonunda 30 milyon kişinin kalp masajı öğrenmesini hedefliyoruz. Her beş kişiden biri kalp masajı öğrendiğinde tanıklı Anı Kalp Durmalarında hayatı kalma oranları artacaktır. Bunun için Erzincan'da 100 eğiticiye ihtiyaç olduğundan Türk Kardiyoloji Derneği'nden Erzincan Üniversitesi'nde İleri Kardiyak Yaşam Desteği Kursu'nun yapılması için onay aldık. Maalesef, bu kursun iptal edilmesi neticesinde Kalp Projesi'ni destekleyen Paramedik Derneği (Pader), Acil Tıp Uzmanları Derneği (ATUDER), Hayatta Kal Derneği ve Yeni Yüzyıl Üniversitesi ile işbirliği yaparak projemize tüm Türkiye'yi kapsayacak şekilde İstanbul'dan devam edeceğiz.

Türkiye'de ilk aşamada 10 milyon kişinin Temel Yaşam Desteği Kursunu almasına ihtiyaç vardır. Bunu derslik ortamında kısa sürede başarmanın mümkün olmadığını ve maliyetinin yüksek olacağını düşünenek Türkiye'nin ilk çevirim içi Anı Kalp Durmalarında Temel Yaşam Desteği (Online CPR) Kursunu tasarladık. Bu fikir daha proje aşamasında Sağlık Bilişim Derneği'nin "Altın Steteskop Bilişim Dostu Doktor