

Diastolic Function

	Normal	Grade I	Grade II	Grade III
<i>LV relaxation</i>	Normal	Impaired	Impaired	Impaired
LAP	Normal	Low or Normal	Elevated	Elevated
Mitral E/A ratio	≥ 0.8	≤ 0.8	>0.8 to < 2	>2
<i>Average E/e'</i>	< 10	< 10	10-14	>14
<i>Peak TR V (m/sec)</i>	< 2.8	<2.8	>2.8	>2.8
<i>LA volume Index</i>	$< 34\text{ml/m}^2$	NI or increased	$> 34\text{ml/m}^2$	$> 34\text{ml/m}^2$

Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography: Sherif F. Nagueh, et al.

J Am Soc Echocardiogr 2016;29:277-314.

In Patients with Normal LV EF

- 1. Average E/e' > 14*
- 2. Septal $e' < 7$ cm/s or Lat $e' < 10$ cm/s*
- 3. TR velocity > 2.8 m/s*
- 4. LA volume index > 34 ml/m²*

**< 50%
positive**

**Normal Diastolic
Function**

**50%
positive**

Indeterminate

**> 50%
positive**

**Diastolic
Dysfunction**

In Patients with dec LV EF or myocardial disease and Normal LVEF

Mitral Inflow

$E/A \leq 0.8 + E \leq 50 \text{ cm/sec}$

**$E/A \leq 0.8 + E > 50 \text{ cm/sec}$
OR
 $E/A > 0.8$ but less than 2**

$E/A \geq 2$

3 Criteria to be evaluated

- 1. Average $E/e' > 14$**
- 2. TR velocity $> 2.8 \text{ m/s}$**
- 3. LA volume index $> 34 \text{ ml/m}^2$**

**2 of 3 or 3 of 3
Negative**

When only 2 Criteria are available

2 Negative

**1 Positive &
1 Negative**

2 Positive

**2 of 3 or 3 of 3
Positive**

**Normal LAP
Grade I Diastolic
Dysfunction**

**CANNOT determine LAP
& Diastolic Dysfunc.
Grade**

**↑ LAP, Grade II
Diastolic Dysfunction**

**↑ LAP, Grade III
Diastolic Dysfunction**