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应变及应变率成像评价尿毒症患者左、右心室心肌功能

Strain and strain rate imaging in assessing myocardial function of left and right ventriculans in patients with uremia

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作者 单位

E-mail

[卢西梅](#) [大连市儿童医院超声科,辽宁 大连 116012;大连市友谊医院超声科,](#)

[高晓军](#) [大连市友谊医院超声科,辽宁 大连 116001](#)

gaoxj0621@126.com

[贾莉](#) [大连市友谊医院超声科,辽宁 大连 116001](#)

[宋喜焕](#) [大连市友谊医院超声科,肾移植科,辽宁 大连 116001](#)

[卢茗](#) [大连市友谊医院超声科,肾内科 辽宁 大连 116001](#)

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中文摘要:

目的 探讨应变及应变率成像评价尿毒症患者左、右心室心肌局部舒缩功能的价值。方法 34例尿毒症患者根据左心室肥厚与否分为左心室非肥厚组18例,左心室肥厚组16例。正常对照组为30名健康者。测量各组左、右心室壁基底段及中间段的最大应变(ϵ)、收缩期峰值应变率(SR_s)、舒张早期应变率(SR_e)和舒张晚期应变率(SR_a)。结果 左心室:各节段 ϵ 、 SR_s 及 SR_e 均为左心室非肥厚组和左心室肥厚组小于正常对照组,大部分节段左心室非肥厚组大于左心室肥厚组; SR_a :左心室非肥厚组大于左心室肥厚组,左心室非肥厚组部分节段小于正常对照组,部分节段大于正常对照组,左心室肥厚组大部分节段小于正常对照组。右心室:各节段的 ϵ 、 SR_s 及 SR_e 均为左心室非肥厚组和左心室肥厚组小于正常对照组, SR_a 为正常对照组<左心室非肥厚组<左心室肥厚组。结论 应变及应变率能敏感地定量评价尿毒症左、右心室心肌局部舒缩功能。

英文摘要:

Objective To investigate the value of strain and strain rate imaging in assessing contractile function and diastolic function of left ventricular and right ventricular in uremia patients. **Methods** Thirty-four patients with uremia were divided into 2 groups according to whether left ventricular was hypertrophic: 18 patients in group of non-hypertrophic left ventricular and 16 patients in group of hypertrophic left ventricular. Thirty healthy adults were selected as control group. Strain (ϵ), systolic peak strain rate (SR_s), early diastolic strain rate (SR_e) and later diastolic strain rate (SR_a) in the basal segments and middle segments of left and right ventriculans were measured. **Results** In left ventricular, ϵ , SR_s and SR_e of each segments in group of non-hypertrophic left ventricular and hypertrophic left ventricular were smaller than those in control group, and in subtotal segments they were higher in group of non-hypertrophic left ventricular than those in group of hypertrophic left ventricular. In group of non-hypertrophic left ventricular, SR_a was higher than that in group of hypertrophic left ventricular. In partial segments, SR_a was smaller in group of non-hypertrophic left ventricular than that in control group, and in partial segments was higher than that in control group. In subtotal segments, SR_a was smaller in group of hypertrophic left ventricular than that in control group. In right ventricular, ϵ , SR_s and SR_e in group of non-hypertrophic left ventricular and hypertrophic left ventricular in each segment were smaller than those in control group, and SR_a was the lowest in normal group and the highest in group of hypertrophic left ventricular. **Conclusion** Strain and strain rate imaging can assess contractile and diastolic functions of left and right ventriculans myocardium about uremia sensitively and quantitatively.

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地址:北京市海淀区北四环西路21号大猷楼502室 邮政编码:100190 电话:010-82547901/2/3 传真:010-82547903

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