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Retrospective Study

Significance of serum fibroblast growth factor-23 and miR-208b in the pathogenesis of atrial fibrillation and their relationship with prognosis

Chen JM *et al.* FGF-23 and miR-208b in the pathogenesis of atrial fibrillation

Jie-Min Chen, Yao-Tang Zhong, Chang Tu, Jun Lan

Abstract

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Aug 01, 2016 · Importance Levels of fibroblast growth factor 23 (FGF23) are elevated in chronic kidney disease (CKD) and strongly associated with left ventricular hypertrophy, heart failure, and death. Whether FGF23 is an independent risk factor for atrial fibrillation in CKD is unknown.

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Moreover, FGF-23 decreased in response to PAH treatment at an early follow-up. FGF-23, a member of the FGF family, is involved in decreasing serum phosphate levels. FGF-23 increases progressively in chronic kidney disease, presumably to counteract the phosphate accumulation seen in these patients.

FGF-23: the rise of a novel cardiovascular risk marker in ...

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Elevated plasma levels of the phosphaturic hormone fibroblast growth factor 23 (FGF-23) are a hallmark of chronic kidney disease (CKD)-mineral and bone disorder. FGF-23 allows serum phosphate levels within physiological limits to be maintained in progressive CKD until end-stage renal disease is reached.

Association of Fibroblast Growth Factor 23 With Atrial ...

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Importance Levels of fibroblast growth factor 23 (FGF23) are elevated in chronic kidney disease (CKD) and strongly associated with left ventricular hypertrophy, heart failure, and death. Whether FGF23 is an independent risk factor for atrial fibrillation in CKD is unknown.

Cardiac Fibrosis in Patients With Atrial Fibrillation ...

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Aug 25, 2015 · Atrial fibrillation (AF) is associated with structural, electrical, and contractile remodeling of the atria. Development and progression of atrial fibrosis is the hallmark of structural remodeling in AF and is considered the substrate for AF perpetuation. In contrast, experimental and clinical data on the effect of ventricular fibrotic processes in the pathogenesis of AF and its complications ...

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Comparing early treatment follow-up with baseline, fibroblast growth factor-23 decreased ($p < 0.02$), with changes in fibroblast growth factor-23 correlating to changes in six-min walking distance ($r = -0.56$, $p < 0.003$), venous oxygen saturation ($r = -0.46$, $p < 0.01$), pulmonary vascular resistance ($r = 0.43$, $p < 0.02$), mean right atrial ...

Association of Fibroblast Growth Factor 23 With Atrial ...

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Results. The study cohort comprised 3876 participants. Their mean (SD) age was 57.7 (11.0) years, and 44.8% (1736 of 3876) were female. Elevated FGF23 levels were independently associated with increased odds of prevalent atrial fibrillation ($n = 660$) after adjustment for cardiovascular and CKD-specific factors (odds ratio of highest vs lowest FGF23 quartile, 2.30; 95% CI, 1.69-3.13; $P < .001$...

Renocardiovascular Biomarkers: from the Perspective of ...

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E: Fibroblast Growth Factor (FGF)-23. Fibroblast growth factor-23 (FGF-23) is a recently discovered member of the FGF family, involved in the regulation of the body's calcium-phosphate metabolism . It increases renal phosphate excretion by reducing the expression of Na/Pi IIa cotransporter and decreases circulating calcitriol [1,25(OH)₂D₃ ...

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Author: Shinichiro Niizuma, Yoshitaka Iwanaga, T...

Publish Year: 2017

Fibroblast growth factor 23: are we ready to use it in ...

<https://link.springer.com/article/10.1007/s40620-020-00715-2> ▾

Mar 04, 2020 · Patients with chronic kidney disease (CKD) have a greatly enhanced risk of cardiovascular morbidity and mortality. Over the past decade it has come clear that a disturbed calcium-phosphate metabolism, with Fibroblast Growth Factor-23 as a key hormone, is partly accountable for this enhanced risk. Numerous studies have been performed unravelling FGF23s actions and its ...

Author: Annet Bouma-de Krijger, Marc G. Verv... Publish Year: 2020

Fibroblast Growth Factor-23 and Incident Atrial ...

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Comparing early treatment follow-up with baseline, **fibroblast growth factor-23** decreased ($p < 0.02$), with changes in **fibroblast growth factor-23** correlating to changes in six-min walking distance ($r = -0.56$, $p < 0.003$), venous oxygen saturation ($r = -0.46$, $p < 0.01$), pulmonary vascular resistance ($r = 0.43$, $p < 0.02$), mean right atrial ...

Author: Habib Bouzina, Roger Hesselstrand, ... **Publish Year:** 2019

[Fibroblast Growth Factor-23 and Cardiovascular Events in CKD](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3904568>

Oct 24, 2013 · **Fibroblast growth factor-23** (FGF-23) is secreted by osteocytes and regulates phosphate and vitamin D homeostasis by stimulating phosphaturia and inhibiting activation of vitamin D in the kidney. 13 FGF-23 levels rise as kidney function declines, and higher levels are strongly associated with greater risk of death. 14 – 19 As a potential ...

Cited by: 340 **Author:** Julia J. Scialla, Huiliang Xie, Mahboob R...

Publish Year: 2014

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Aug 01, 2016 · Results. The study cohort comprised 3876 participants. **Their** mean (SD) age was 57.7 (11.0) years, and 44.8% (1736 of 3876) were female. Elevated FGF23 levels were independently associated with increased odds of prevalent **atrial fibrillation** ($n = 660$) after adjustment for cardiovascular and CKD-specific factors (odds ratio of highest vs lowest FGF23 quartile, 2.30; 95% ...

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