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## Evaluation of right ventricular function in fetal ...

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As the **right ventricle** is solely responsible for maintenance of circulation, the **right ventricular systolic function** undergoes **compensatory enhancement** in **fetuses with HLHS** and mild TR, compared to that in **normal** controls. Size of the left **ventricle** does not significantly affect the **right ventricular function** ...

Author: Jing Zhang, Qichang Zhou, Yili Zhao, ... Publish Year: 2015

## Evaluation of right ventricular function in fetal ...

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Apr 11, 2016 · As the **right ventricle** is solely responsible for maintenance of circulation, the **right ventricular systolic function** undergoes **compensatory enhancement** in **fetuses with HLHS** and mild TR, compared to that in **normal** controls. Size of the left **ventricle** does not significantly affect the **right ventricular function** in HLHS.

Published in: [Cardiovascular Ultrasound](#) · 2015

Authors: [Jing Zhang](#) · [Qichang Zhou](#) · [Yili Zhao](#) · [Qinghai Peng](#) · [Zheli Gong](#) · [Xiangdang Long](#)

Affiliation: [Central South University](#) · [Eastern Virginia Medical School](#)

About: [Angiology](#) · [Ultrasound](#) · [Cardiology](#)

## Fetal tricuspid annular plane systolic excursion (f-TAPSE ...

[onlinelibrary.wiley.com/doi/10.1002/uog.12375/abstract](http://onlinelibrary.wiley.com/doi/10.1002/uog.12375/abstract)

Objectives. Evaluation of **right heart function** is well-recognized in pediatric and adult cardiology, but has not been studied widely in the **fetus**. We aimed to study f-TAPSE in the second half of **gestation** in **normal fetuses**, to establish reference ranges for this measure, to **evaluate** the usefulness of **spatiotemporal image correlation** (STIC)...

Published in: [Ultrasound in Obstetrics & Gynecology](#) · 2013

Authors: [B Messing](#) · [Yinon Gilboa](#) · [M Lipschuetz](#) · [D V Valsky](#) · [S M Cohen](#) · [Simcha Yagel](#)

Affiliation: [Hebrew University of Jerusalem](#) · [Sheba Medical Center](#)

## (PDF) Evaluation of right ventricular function in fetal ...

[https://www.researchgate.net/publication/301223526\\_Evaluation\\_of...](https://www.researchgate.net/publication/301223526_Evaluation_of...)

Evaluation of right ventricular function in fetal hypoplastic left heart syndrome using spatio-temporal image correlation (STIC) Article (PDF Available) in [Cardiovascular Ultrasound](#) 14(1) · April ...

## Evaluation of right ventricular function in fetal ...

<https://link.springer.com/article/10.1186/s12947-016-0056-5> ▼

As the **right ventricle** is solely responsible for maintenance of circulation, the **right ventricular**

# Evaluation of right ventricular volume and systolic function in normal fetuses using intelligent spatiotemporal image correlation

## Abstract

### BACKGROUND

### AIM

To investigate the value of intelligent spatiotemporal image correlation (iSTIC) in evaluating right ventricular volume and systolic function in normal fetuses.

### METHODS

Between October 2014 and September 2015, a total of 123 pregnant women received prenatal ultrasound examinations in our hospital. iSTIC technology was used to acquire the entire fetal

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Conclusion: As the **right ventricle** is solely responsible for maintenance of circulation, the **right ventricular systolic function** undergoes compensatory **enhancement in fetuses with HLHS** and mild TR, compared to that in **normal** controls. Size of the **left ventricle** does not significantly affect the **right ventricular function** in HLHS. However, right

Author: Jing Zhang, Qichang Zhou, Yili Zhao, ... Publish Year: 2015

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Measurement of **right ventricular end-systolic volume** in a **normal fetus** a a **fetus with HLHS** and visible **left ventricular cavity b** and a **fetus with HLHS** and invisible **left ventricular cavity c**. HLHS ...

### Fetal tricuspid annular plane systolic excursion (f-TAPSE) ...

<https://obgyn.onlinelibrary.wiley.com/doi/10.1002/uog.12375>

Tricuspid annular plane systolic excursion (TAPSE) is a commonly applied measure of right ventricular systolic function that quantifies its contraction. TAPSE values decrease in adult patients with **heart failure**; the degree of this observed drop correlates with the **severity** ...

Cited by: 20 Author: B. Messing, Y. Gilboa, M. Lipschuetz, D. ...

Publish Year: 2013

### Evaluation of right ventricular function in fetal ...

<https://link.springer.com/article/10.1186/s12947-016-0056-5> ▼

Apr 11, 2016 · Methods. Three-dimensional ultrasound with STIC technique was used to acquire heart images from **fetuses** that had HLHS and the **normal** controls, between 24 +0 and 37 +6 weeks of gestation. **Right ventricular end-diastolic volume (RVEDV)** and **right ventricular end-systolic volume (RVESV)** were determined **using** the virtual organ computer-aided analysis software, and the parameters of right ...

Author: Jing Zhang, Qichang Zhou, Yili Zhao, ... Publish Year: 2015

### Fetal cardiac ventricular volume ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3175283>

Comparable results were obtained when a ratio of **right** to left end **diastolic ventricular volumes** in the **human fetus** were calculated **using** either two-dimensional 22 or three-dimensional 33 ultrasonography;