钟玉敏简介



**个人基本情况**

钟玉敏，主任医师，博士生导师，上海交通大学医学院附属上海儿童医学中心影像诊断中心主任。1987年毕业于上海第二医科大学。2006年和2015年分别获得硕士和博士学位。1987年至1998年在上海新华医院工作，1998年至今工作于上海儿童医学中心。2001年及2011年前后二次赴美国费城儿童医院放射科作访问学者，2014年及2019年分别赴美国德克萨斯儿童医院及Ann&Robert H, Lurie儿童医院放射科作访问学者。

**研究方向**

 儿童影像诊断，尤其是儿童胸部影像诊断(包括心肺大血管异常疾病,主要是先天性心脏病)及肿瘤影像

**发表的学术论文和专著（近五年）**

 **论著**

1. Hu LW, Xiang Y, Qin SY, Ouyang RZ, Liu JL, Peng YF, Xie WH, Zhang Y, Liu H, Zhong YM.  Vortex formation time as an index of left ventricular filling efficiency: comparison

 between children volunteers and patients with tetralogy of Fallot.

Transl Pediatr. 2022 Jun;11(6):869-881

1. Zhao X, Hu L, Leng S, Tan RS, Chai P, Bryant JA, Teo LLS, Fortier MV, Yeo TJ, Ouyang RZ, Allen JC, Hughes M, Garg P, Zhang S, van der Geest RJ, Yip JW, Tan TH, Tan JL, Zhong Y, Zhong L. Ventricular flow analysis and its association with exertional capacity in repaired tetralogy of Fallot: 4D flow cardiovascular magnetic resonance study. J Cardiovasc Magn Reson 2022 Jan 3;24(1):4
2. Xie WH, Chen LJ, Hu LW, Ouyang RZ, Guo C, Sun AM, Wang Q, Qiu HS, Zhang YQ, Zhang H, Fu QH, Zhong YM. Cardiac Computed Tomography-Derived Left Atrial Strain and Volume in Pediatric Patients With Congenital Heart Disease: A Comparative Analysis With Transthoracic Echocardiography Front Cardiovasc Med. 2022 Jun 20;9:870014.
3. Ouyang R, Leng S, Sun A, Wang Q, Hu L, Zhao X, Yan Q, Tan RS, Zhong L, Zhong Y.

Detection of persistent systolic and diastolic abnormalities in asymptomatic pediatric repaired tetralogy of Fallot patients with preserved ejection fraction: a CMR feature tracking study. Eur Radiol 2021, 31: 6156-6168

1. Hu L, Ouyang R, Liu X, Shuang L, Xiaodan Z, Guo C, Peng Y, Xie W, Han T, Liang Z, Zhong Y. Impairment of left atrial function in pediatric patients with repaired tetralogy of Fallot: a cardiovascular magnetic resonance imaging study Int J Cardiovasc Imaging 2021 Nov;37(11):3255-3267
2. Yao X, Hu L, Peng Y, Feng F, Ouyang R, Xie W, Wang Q, Sun A, Zhong Y.

Right and left ventricular function and flow quantification in pediatric patients with repaired tetralogy of Fallot using four-dimensional flow magnetic resonance imaging BMC Med Imaging 2021, 21: 161

1. Xie WH, Chen LJ, Hu LW, Ouyang RZ, Guo C, Sun AM, Wang Q, Qiu HS, Yan Q, Zhang YQ, Zhong YM. Postoperative evaluation of left ventricular global strain using cardiac computed tomography in pediatric patients with congenital heart disease: A comparison with echocardiography Eur J Radiol 2021, 142: 109868
2. Xie WH, Guo C, Hu LW, Ouyang RZ, Yao XF, Sun AM, Qiu HS, Yan Q, Zhu YX, Wang Q, Zhong YM. Feasibility of Cardiac Computed Tomography for the Evaluation of Ventricular Function in Postoperative Children With Congenital Heart Disease: Comparison With Cardiac Magnetic Resonance Imaging. J Comput Assist Tomogr 2021.45: 537-543.
3. Guo C, Liu YJ, Sun AM, Ouyang RZ, Hu LW, Xie WH, Qiu HS, Zhang HB, Xu ZM, Sun JQ, Zhong YM, Wang Q. Feasibility of using a non-sedation protocol for evaluation of neonatal congenital heart disease by using a 16-cm wide-detector computed tomography with a low radiation dose: preliminary experience from a single pediatric medical center. Int J Cardiovasc Imaging 2021. 37(7), 2303-2310
4. Peng YF, Su XY, Hu LW,  Wang Q, Ouyang RZ, Sun AM,  Guo C, Yao XF, Yong Zhang Y, Wang LJ, Zhong YM Feasibility of Three-Dimensional Balanced Steady-State Free Precession Cine Magnetic Resonance Imaging Combined with an Image Denoising Technique to Evaluate Cardiac Function in Children with Repaired Tetralogy of Fallot. Korean J Radiol 2021.22(9), 1525-1536.
5. Hu L, Wang Q, Gregory BP, Ouyang RZ, Sun A, Guo C, Han T, Zhong Y.

Quantitative comparison of two-dimensional and three-dimensional strain measurement using MRI feature tracking in repair Fontan patients and normal child volunteers BMC Med Imaging 2020.28;20(1):8.

1. Hu L, Ouyang R, Sun A, Wang Q, Guo C, Peng Y, Qin Y, Zhang Y, Xiang Y, Zhong Y. Pulmonary artery hemodynamic assessment of blood flow characteristics in repaired tetralogy of Fallot patients versus healthy child volunteers. Quant Imaging Med Surg. 2020 May;10(5):921-933.
2. Hu LW, Liu XR, Wang Q, Barton GP, Ouyang RZ, Sun AM, Guo C, Han TT, Yao XF, François CJ, Zhong YM. Systemic ventricular strain and torsion are predictive of elevated serum NT-proBNP in Fontan patients: a magnetic resonance study. Quantitative Imaging in Medicine and Surgery 2020; 10(2):485-495.
3. Hu L#, Sun A#, Guo C, Ouyang R, Wang Q, Yao X, Zhong Y\*. Assessment of global and regional strain left ventricular in patients with preserved ejection fraction after Fontan operation using a tissue tracking technique. Int J Cardiovasc Imaging 2019;35(1):153-160.
4. Wang SY#, OuYang RZ#, Hu LW, Xie WH, Peng YF, Wang L, Gao FB\*, Zhong YM\*. Right and left ventricular interactions, strain, and remodeling in repaired pulmonary stenosis patients with preserved right ventricular ejection fraction: A cardiac magnetic resonance study. J Magn Reson Imaging 2019; 50 (4):1047-1054.
5. Hou Q, Gao W, Zhong Y\*, et al. Diagnostic Accuracy of Three-dimensional Turbo Field Echo Magnetic Resonance Imaging Sequence  in Pediatric

Tracheobronchial Anomalies with Congenital Heart Disease. Sci Rep. 2018 Feb 7;8(1):2529. doi:10.1038/s41598-018-20892-2.

1. Wang SY, Gao W, Zhong YM\*, et al. Prospective ECG-triggering cardiac CT for infants with complex congenital heart disease using low contrast dose and low tube voltage and adaptive statistical iterative reconstruction. Clin radiol.2017 Jun;72(6):502-507.DOI:10.1016/j.crad.2017.01.017. Epub 2017Mar6
2. Wang SY, Gao W, Zhong YM\*, et al. Multi- slice Computer Tomography Assessment Tracheobronchial Patterns in Partial Anomalous Left Pulmonary Artery. J of Comput Assist Tomogr. 2017 Apr 26.doi:10.1097/RCT

.0000000000000623. [Epub ahead od print]

1. Hou QR, Gao W, Zhong YM\*, et al. Prospective Evaluation of Contrast and Radiation Dose and Image Quality in Cardiac CT in Children with Complex Congenital Heart Disease using Low-concentration Iodinated Contrast Agent and Low Tube Voltage and Current. Br J Radiol. 2017 Feb;90(1070):20160669. doi: 10.1259/bjr.20160669. Epub 2016 Dec 7.

**专著**

1, CT快速入门 儿科学分册 主审

2，儿科影像学：核心复习 主译

**获得的学术成果奖励**

1. 先天性心脏病合并气道狭窄外科关键手术技术探索与突破 上海市浦东新区科学技术奖 一等奖 2017/9， 第八完成人
2. 先天性心脏病合并气道狭窄外科关键手术技术探索与突破 华夏医学科技奖 三等奖 一等奖 2017/11， 第八完成人
3. 先天性心外大血管畸形诊治关键技术建立和应用 上海市浦东新区科学技术奖 一等奖 2019/9， 第五完成人

**获得的发明专利**