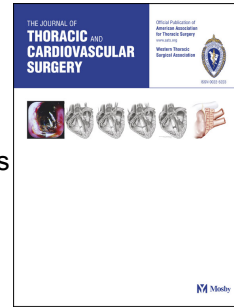


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Predictors of Respiratory Instability in Neonates undergoing Patient Ductus Arteriosus Ligation after the Introduction of Targeted Milrinone Treatment

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1 **Predictors of Respiratory Instability in Neonates undergoing Patient Ductus Arteriosus**
2 **Ligation after the Introduction of Targeted Milrinone Treatment**

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13
14 **Short Title:** Respiratory Instability in Neonates after Targeted Milrinone Treatment

15
16 **Abbreviated legend for the Central Picture:** Isovolumic relaxation time (IVRT) to predict
17 post-operative respiratory instability (83 characters)

18
19 **Keywords:** patent ductus arteriosus; neonates; oxygenation failure; ventilation failure;
20 milrinone

21
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29
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33 **Abbreviations and Acronyms:**

34 PDA - patent ductus arteriosus; PLCS – post-ligation cardiac syndrome; SH – systemic
35 hypotension; OF – oxygenation failure; LVO – left ventricular output; VF – ventilation
36 failure; HFOV – high frequency oscillatory ventilation; MAP – mean airway pressure; FiO₂ –
37 fraction of inspired oxygen; ACTH – adrenocorticotrophic hormone; TnECHO – targeted
38 neonatal echocardiography; LV FS - left ventricular fractional shortening; LV – left ventricle;
39 VTI – velocity time integral; IVRT - isovolumic relaxation time; E/A – early-to-late-
40 ventricular-filling velocities; IV – intravenous; NDI – neurodevelopmental impairment; CLD
41 – chronic lung disease; ROP – retinopathy of prematurity; PDE – phosphodiesterase; BPD –
42 bronchopulmonary dysplasia; Pre-op.- pre-operative; Post-op. – post-operative; hsPDA –
43 hemodynamically significant patent ductus arteriosus

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