



Figure S1. Immature intercalated disc maturation in pediatric tissues. Immunohistochemical labeling of N-cadherin (N-CAD) and nuclei (DAPI) in combination with either plakoglobin (JUP, **A**) or β -catenin (**B**), at 60x. Intercalated disc proteins JUP and β -catenin are expressed in similar patterns as N-CAD. The two pediatric patients (patient S, 4 weeks postnatal; patient T, 6 weeks postnatal) when compared to age-matched (control R, 5 weeks postnatal) and histology-matched (control Q, 39 weeks in utero) controls showed increased diffuse and lateral expression of the intercalated disc, alongside several completely formed intercalated discs (white

arrows). 4 images were captured based on 4 independent tissue slice stainings per individual, representative images are shown. Scale bar represents 50 μ M.