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Signal ambiguity resulting in unexpected outcome with external fetal heart rate monitoring.

[Neilson DR Jr, Freeman RK, Mangan S.](#)

Legacy Health System, Portland, Oregon, USA.

We report cases of unexpected adverse fetal outcome from monitored labors in which the fetal heart rate tracing was interpreted as reassuring. In these cases, portions from another signal source, usually maternal, were imperceptibly substituted into the fetal tracing in a way that masked the evidence of fetal compromise.