

Use of Machine Learning to Improve Interpretation of Newborn Videourodynamics

- Background: Videourodynamic studies (VUDS) are essential in the evaluation of a newborn diagnosed with myelomeningocele (MMC); however, interpretation of VUDS varies between urologists. We speculated whether machine learning (ML) can provide an objective assessment of VUDS. While ML and artificial intelligence are ubiquitous in other industries for “big data” analysis, medicine has only recently begun using this technology.
- Hypothesis: We hypothesized that ML algorithms could be applied to newborn VUDS to risk stratify MMC patients.