Lower Urinary Tract Obstruction (LUTO) Evaluation Algorithm

First Trimester Megacystis

Re-scan 16-17 Weeks

Persistent Megacystis

Normal Sized Bladder (50% of first trimester LUTOs resolve without long-term sequelae)

Female Fetus

Counseling

Assess Amniotic Fluid Volume (AFV)

Normal AFV

High Normal AFV

Oligohydramnios

Continued Monitoring, Evaluate for Patent Urachus

Female Fetus

Counseling

Assess for Renal Dysplasia/Additional Anomalies

Positive

Karyotype/Serial Vesicoamniocenteses (drain bladder completely, re-assess in 24-48 hours for refilling, repeat 2-3 times)

Abnormal Karyotype and/or Poor Prognosis

Renal Profile

Counseling

Normal Male Karyotype and Good Prognosis

Renal Profile

Consideration for Vesicoamniotic Shunt

Male Fetus

Assess for Renal Dysplasia/Additional Anomalies

Positive

Karyotype/Serial Vesicoamniocenteses (drain bladder completely, re-assess in 24-48 hours for refilling, repeat 2-3 times)

Abnormal Karyotype and/or Poor Prognosis

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Consideration for Vesicoamniotic Shunt

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Children’s Hospital of Philadelphia
Center for Fetal Diagnosis & Treatment
Contact us: 1-800-IN UTERO (468-8376)
Learn more: fetalsurgery.chop.edu