**Appendix S4:** Systematic review data regarding parameters for candidacy for intervention, timing and type intervention

**Candidacy for intervention factors**

* Gestational age: less than 16 weeks, more than 16 weeks
* Amniotic fluid volume or deepest vertical pocket
* Urine biochemistry
* Bladder refill
* Ultrasound features suggestive of renal dysplasia: cortical cysts, increased echogenicity, loss of cortico-medullary differentiation, urinary ascites, perinephric abscess
* Ultrasound/MRI suggestive of presence of associated structural abnormalities: anorectal malformations, CHD, club feet, spine/skeletal, abdominal wall defects, others.
* Presence of genetic abnormalities: aneuploidy including T21, X0, T18, T14, sex chromosome, pathogenic CNVs, likely pathogenic CNVs, VUS

**Timing of intervention:**

* Any gestational age
* More than 12 weeks
* More than 16 weeks
* 12-28 weeks
* 16-28 weeks
* 12-30 weeks
* 16-30 weeks
* 12-32 weeks
* 16-32 weeks

**Types of proposed fetal intervention in the literature:**

* Vesicoamniotic shunt
* Peritoneoamniotic shunt
* Cystoscopic valve fulguration
* Cystoscopic transurethral stent placement
* Cystoscopic valve fulguration and transurethral stent placement
* Ultrasound guided balloon catheterization
* Serial amnioinfusion