Objective
to evaluate the application of Crystal Vue in fetal gastrointestinal tract.

Methods
we compared the Samsung WS80A Crystal Vue with two-dimension and three-dimension in 24 fetuses of different gestational week (GW) between January 2017 and January 2018, 1 case of 13 GW, 15 cases of 18~25 GW, 5 cases of 28~32 GW, 4 cases over 35 GW. Crystal Vue imaging were compared with 2D, 3D, MRI and pathologic examinaton in 4 fetuses with malformation, 2 cases with duodenal atresia (DA), 2 cases with congenital diaphragmatic hernia (CDH).

Results
Crystal Vue could delineate the fetal intestinal wall and lumen in different GW, and is considered better than 2D, 3D and MRI T2WI. For the cases with CDH, the imaging of intestinal tract herniating into the thoracic cavity on Crystal Vue is similar to MRI; as for the cases with DA, the dilated esophagus, stomach and duodenum were better delineated on Crystal Vue than MRI.

Conclusion
Samsung WS80A Crystal Vue is a non-invasive and convenient fast imaging technology, and is evaluable in evaluating the fetal gastrointestinal tract, not only in normal development, but also in diagnosis of gastrointestinal malformation.