**Purpose**
To investigate the ultrasonographic findings of immature teratoma originating from ovary.

**Methods**
We retrospectively analyzed the ultrasonographic findings, manifestations and clinicopathological data of 4 cases of immature teratoma, which confirmed by pathology in the second affiliated hospital of Harbin medical university.

**Results**
All 4 cases were confirmed as immature teratoma by pathology. The patients were all young women, their AFP and CA125 levels both increased. Ultrasonography showed cystic solid mass with clear boundary and uneven internal echo. Calcified echogenic echogenicity with acoustic shadow can be seen in the mass. The 'chrysanthemum' change is seen in the solid portion of the mass.

**Conclusion**
When the ultrasound showed mature teratoma combined with 'chrysanthemum' change and blood flow signal in the solid portion of the mass, and the resistance index was less than 0.5, we should consider the possibility of immature teratoma. However, we believe that it is still very difficult to diagnose immature teratoma of ovary before surgery.