A case of fetal cholelithiasis detected at 37 weeks gestation in a 28 year old primigravida on antenatal ultrasonography (USG). It was a singleton pregnancy with normal liquor volume and no detectable structural anomaly in the fetus. There was no increase in nuchal translucency or abdominal wall defects. The baby was delivered at 38 weeks by caesarean section done for fetal distress on 21st March 2014. The postnatal period was uneventful. The baby received vitamin K injection on the first day of life and was exclusively breast fed. A postnatal USG on the 5th day of life showed persistence of micro-calculi in the gall bladder (Figure 1).

Figure 1: Post-natal ultrasonogram showing micro-calculi in the gallbladder

The baby was discharged home with advice to come for follow-up. A 5 month follow up ultrasonogram done in August 2014 showed disappearance of the gallbladder calculi as shown in Figure 2.
Discussion

Although the prenatal diagnosis of fetal gallstones has been described in the literature, fetal cholelithiasis is an uncommon finding\(^1\). The fetal gallstones are often diagnosed on sonograms, by identifying the typical shape and location of the echogenicity\(^2\). The occurrence of fetal gallstones has been reported among siblings\(^3\). The significance and natural history of fetal cholelithiasis is not yet well defined. However Munjuluri N et al. reported 2 cases which resolved within 16 weeks following birth. Both infants however were treated with ursodeoxycholic acid\(^4\). Cancho Candela R et al. carried out a prospective study of ultrasonographic examination of 9235 fetuses in the third trimester of gestation\(^5\). Perinatal data was collected. Postnatal ultrasonography was performed in identified cases. Fetal biliary echogenic material was found in one out of every 200 fetuses. No relationship was found with perinatal abnormalities. In further follow-up examinations, ultrasound studies were normal\(^5\). The prognosis of fetal gallstones is thus favourable. In our patient no treatment was given but the gallstones were no longer visible on the 5 month follow up ultrasonogram indicating spontaneous resolution.

References

   http://dx.doi.org/10.1002/jcu.1870210309
   PMid: 8382223

   http://dx.doi.org/10.4137/ccrep.s12273

   http://dx.doi.org/10.1055/s-0030-1254239
   PMid: 20440667

   http://dx.doi.org/10.1055/s-0030-1254239
   PMid: 20440667

   http://dx.doi.org/10.1157/13066429