Prenatal diagnosis is widely practiced in obstetrics. The main aim of such tests is early detection of the fetal anomaly so that proper management can be selected. One of the common diagnostic tools is second trimester ultrasonography screening. This technique has proved to be cost effective. For the positive cases of this screening technique, the termination of pregnancy is an important outcome. The termination of pregnancy depends on several factors including the medical, social and legal factors in each setting. The author hereby appraises the rate of termination of pregnancy after having derived positive results from second trimester ultrasonography screening in published papers from several settings. First, the specific literature search on second trimester ultrasonography screening for fetal anomaly detection was done using standard researching on referencing databases (PubMed, Scopus and SciCitationIndex). The inclusion is set as any reports published in English. The exclusion is set as any reports that lack complete data on prevalence (positivity) and termination of pregnancy rate. Meta-analysis on derived data was done. ANOVA was used for assessing differences among settings. Statistically significant difference was set at P value equal to or less than 0.05.

According to this work, there were 8 reports (1-8) on 75264 screenings. The reported prevalence (positivity) ranges from 0.43% to 3.0% without different among settings. Overall prevalence (positivity) is equal to 1.48%. The reported termination of pregnancy rate ranges from 0.141% to 0.61% without difference among settings. The overall rate of termination of pregnancy is 0.35%. The rate of termination of pregnancy in positive screening cases ranges from 4.8% to 55%, with a significant difference among settings. The author hereby found that the rates of abnormality (positivity) detected by the screening in studies reported are within the same range. In addition, the finalized termination of pregnancy rates also do not differ. However, it can be seen that the rates of termination of pregnancy in positive screened cases are highly variable. This also confirms that the decision on finalized management of detected fetal anomaly from screening is totally different depending on settings. Although the screening is useful, the finalized usefulness of screening results has many underlying factors. This is also concordant with the statement of Rasch et al on the effect of the socio-economic situation and country of birth on the termination of pregnancy (9).

References