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RAPID ANEUPLOIDY SCREENING, WITH FLUORESCENCE IN SITU HYBRIDIZATION TEST

Synonym(s): FISH ANEUPLOIDY

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Lab Section Category	**Cytogenetics - PP FISH** Click here to find out more about the **write-up (/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/cytogenetics.aspx)**.
Indications	- Advanced maternal age (≥35 years at EDD) - Abnormal ultrasound findings - Positive maternal serum screening - Previous history of chromosome abnormality - Family history of Down syndrome - Parental anxiety
Specimen Required	Amniotic fluid (3ml), chorionic villi (5mg), or fetal cord blood/neonate blood (1.0ml)
Method	FISH assay using LSI 13 and 21, and CEP X, Y, and 18 DNA probes labelled with fluorophores and analysed under fluorescence microscopy.
Test Result	Normal or Abnormal. If Abnormal, the abnormality is described in accordance to the International System for Human Cytogenomic Nomenclature (ISCN, 2016).

Reference Interval/Value	Individuals with a trisomy will show three copies of a particular DNA probe. Normal individuals will show two copies of each DNA probe. Females will show two copies of the X probe, males one copy of the X and Y probe each.
Turnaround Time	1 ~ 3 days
Day(s) Test Set up	Monday – Friday (office hours)
Remarks	This FISH test is usually requested in conjunction with conventional cytogenetic studies.

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Change History Notes

- **08 Dec 2015 08:29 AM**
  Updated Turnaround Time: 1 ~ 3 days

- **06 Jul 2017 10:49 AM**
  - Updated the test result for ISCN, 2013 to ISCN, 2016