

## Advantages of genomic approach

1. Many diseases can be identified early
  - a. Fetal – aminocentesis
  - b. Embryonic – preimplantation IVF
2. Predispositions to disease can be detected
3. Multigenic diseases can be analyzed
4. Low penetrance diseases can be analyzed
5. Detect the cause of disease, rather than secondary symptoms
6. Discover the basis for disease
7. Can lead to understanding of disease process
8. Suggests mechanisms to treat disease.

## Disadvantages

1. Many diseases can be detected but cannot be treated or cured. Terisias paradox.
2. Stigma associated with genetic defects
3. Social Discrimination against those with predisposition
  - a. Refusal of insurance
  - b. Refusal of employment
  - c. Refusal of marriage etc.
4. Feeling of personal inferiority
5. Patients may take extreme steps.
6. Insurance may claim genetic defects constitute pre-existing conditions.
7. Personal privacy rights can be violated if genetic information is not protected
8. Could lead to eugenics
9. Could lead to cosmetic genetic selection (normal versus abnormal versus disease)