

S11 Table. Genetic testing lists prohibited under the Bioethics Act

< Appendix 4> Prohibited Genetic Tests (Related to Article 20) (Enforcement Decree of the Bioethics and Safety Act) List

■ Bioethics and Safety Act Enforcement Decree] < Revised February 28, 2017.>

Prohibited genetic tests (related to Article 20)

- Genetic testing related to osteoporosis involving the VDR gene.
- Genetic testing for diabetes associated with the Mt16189 gene.
- Genetic testing for obesity linked to the UCP-1, PPAR-gamma, and ADRB3 (B3AR) genes.
- Genetic testing for depression connected to the 5-HTT gene.
- Genetic testing for longevity related to the Mt5178A gene.
- Genetic testing for intelligence involving the IGF2R or CALL genes.
- Genetic testing for physical endurance associated with the ACE gene.
- Genetic testing for lung cancer linked to the CYP1A1 gene.
- Genetic testing for aggression related to the SLC6A4 gene.
- Genetic testing for curiosity associated with the DRD2 or DRD4 genes.
- Genetic testing for ankylosing spondylitis involving the HLA-B27 gene is prohibited, except when the treating physician suspects the condition.
- Genetic testing for breast cancer related to the BRCA1 or BRCA2 genes is prohibited unless deemed necessary by the treating physician for individuals at high risk or definitively diagnosed with the condition.
- Genetic testing for dementia associated with the Apolipoprotein E gene is prohibited, with exceptions for adults if the treating physician suspects the disease or identifies the individual as being at high risk.
- Despite the prohibitions listed in items 1, 2, 5, and 6, genetic testing for research purposes may be conducted if deemed necessary by an institutional committee.