**Supplement 6.** Measurement tools for the quasi experiment (English version)

**Knowledge about prenatal genetic testing and nursing**

|  |  |  |
| --- | --- | --- |
| Items | Yes | No |
| B-3. Prenatal genetic screening and diagnostic testing are to determine whether a fetus has Down syndrome. |  |  |
| B-4. Prenatal genetic screening and diagnostic testing refer to amniocentesis. |  |  |
| B-5. A nuchal translucency scanning test is performed to detect neural tube defects of the fetus during pregnancy. |  |  |
| B-7. If the thickness of a pregnant woman’s nuchal translucency scanning is measured at more than 1.0 mm, she should undergo amniocentesis. |  |  |
| B-8. A cffDNA test is a genetic diagnostic test recommended following amniocentesis. |  |  |
| B-9. The family as well as the parents of fetus have the right to know prenatal genetic testing results and related information about the pregnancy. |  |  |
| B-10. In Korea, terminating a pregnancy before 24 gestational weeks is legally allowed if a fetal anomaly is detected. |  |  |
| C-1. All hereditary/genetic diseases of the fetus can be detected by prenatal genetic testing. |  |  |
| C-2. Hereditary and genetic diseases are easily discovered within one year after birth. |  |  |
| C-3. Common hereditary diseases are always transmitted to and expressed in the next generation. |  |  |
| C-4. If one parent is affected by an autosomal dominant disorder, there is a 25% chance that each child of that will inherit the same mutated gene. |  |  |
| E-1. All genetic diseases are inherited in accordance with the Mendelian principle of inheritance. |  |  |
| E-4. The chance that a male child and a female child will suffer from an autosomal dominant disease passed down from their parents is equal. |  |  |
| E-10. Humans have a total of 46 autosomes. |  |  |
| E-11. In addition to non-invasive prenatal testing, an ultrasound can identify a baby’s sex after 7 gestational weeks. |  |  |

**Information needs about prenatal genetic testing and nursing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Domain | Content | Strongly want to know | Want to know | No preference | Don’t want to know | Not at all |
| Maternal serum screening test purpose |  |  |  |  |  |  |
| 4 | D1. First trimester screening test |  |  |  |  |  |
| 4 | D2. Second trimester screening test |  |  |  |  |  |
| 4 | D3. Integrated test |  |  |  |  |  |
| Amniocentesis |  |  |  |  |  |  |
| 4 | D4. Indication |  |  |  |  |  |
| 4 | D5. Side effect during amniocentesis |  |  |  |  |  |
| 4 | D6. Testing methods |  |  |  |  |  |
| 3 | D7. Care after amniocentesis |  |  |  |  |  |
| 4 | D8. Complication after amniocentesis |  |  |  |  |  |
| 3 | D9. Expenses |  |  |  |  |  |
| 3 | D10. Interpretation of the test results |  |  |  |  |  |
| 2 | D11. Management of the positive test results |  |  |  |  |  |
| 3 | D12. Management of the negative test results |  |  |  |  |  |
| Level II ultrasonography |  |  |  |  |  |  |
| 4 | D13. Purpose |  |  |  |  |  |
| 4 | D14. Interpretation of the test results |  |  |  |  |  |
| Genetic disease |  |  |  |  |  |  |
| 1 | D15. Downs syndrome |  |  |  |  |  |
| 1 | D16. Patau syndrome |  |  |  |  |  |
| 1 | D17. Edward syndrome |  |  |  |  |  |
| Chorionic villus sampling |  |  |  |  |  |  |
| 4 | D18. Purpose |  |  |  |  |  |
| 4 | D19. Interpretation of the test results |  |  |  |  |  |
| NIPT |  |  |  |  |  |  |
| 2 | D20. Understanding of NIPT |  |  |  |  |  |
| 2 | D21. Ethical considerations of NIPT |  |  |  |  |  |

NIPT, non-invasive prenatal testing.

**Satisfaction and evaluation of workshop**

1. **Workshop activity**

L1**.** Was this workshop effective in providing an overview of key prenatal genetic nursing knowledge and nursing care? ( )

1) Strongly agree 2) Agree 3) Neither disagree nor agree

4) Disagree 5) Strongly disagree

L2.Was the duration of the workshop (3 days) sufficient to meet the goals of the program? ( )

1) Strongly agree 2) Agree 3) Neither disagree nor agree

4) Disagree 5) Strongly disagree

L3. Did the workshop meet your expectation? ( )

1) Strongly agree 2) Agree 3) Neither disagree nor agree

4) Disagree 5) Strongly disagree

L4. Were the contents of the workshop and the expertise of lecturers helpful? ( )

1) Strongly agree 2) Agree 3) Neither disagree nor agree

4) Disagree 5) Strongly disagree

L5. Was the level of this workshop activities appropriate? ( )

1) Strongly agree 2) Agree 3) Neither disagree nor agree

4) Disagree 5) Strongly disagree

**2. Administrative aspects of the workshop**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Strongly satisfied | Satisfied | Neither satisfied nor dissatisfied | dissatisfied | Strong dissatisfied |
| S1. Lunch |  |  |  |  |  |
| S2. Refreshment |  |  |  |  |  |
| S3. Registration process |  |  |  |  |  |
| S4. Facilities |  |  |  |  |  |

**3. Others**

• What workshop activities were most effective?

• What workshop activities do you think need to be improved?

• Overall opinion: If you attend a genetic nursing workshop in the near future, which area in genetic nursing would you like to pursue further?