

RESEARCH TOOL

Introduction:

The questionnaire consist of 3 sections section 1- deals with the questionnaire seeking information regarding demographic variable of primi mothers. Section -2 questionnaire deals with the information regarding antenatal history . section 3 questionnaire deals with the knowledge regarding umbilical cord blood and stem cell banking Each question carries one mark and graded according to scoring system kindly go through the questionnaire an put a tick mark for the correct answer. I assure you that the information given by you will be kept confident.

Section 1

SEC 1] DEMOGRAPHIC DATA

1.Age:

- 20-25
- 26-30
- 31-35
- Above 35

2.Education:

- SSC
- HSC
- Graduate
- Post graduate

3.Religion :

- Hindu
- Muslim
- Christian
- Other

4.Socio economic status:(annual)

- Below 50000
- Below 1 lakhs
- Below 2 lakhs
- Below 5 lakhs

5.Type of family:

- Joint
- Nuclear

6. location:

- Rural
- Urban

SEC 2] GYNACOLOGICAL (ANTENATAL)HISTORY:

1.How many time have you concieved?

- once
- Second
- Third
- More than 3

2.Present week of pregnancy(gestational age):

- 1-12weeks
- 13-24weeks
- 25-34weeks
- 34-37 and above

3.Have you taken any treatment for pregnancy ?

Yes

No

If yes then specify:-----

4.Do you have previous knowledge regarding umbilical cord blood banking?

- Yes
- no

SEC 3] QUESTIONS REGARDING KNOWLEDGE OF UMBILICAL CORD BLOOD AND STEM CELL

BANKING

1) What is cord blood banking?

- A) The process of collecting and discarding cord blood
- B) Storing umbilical cord blood for future medical use
- C) Donating cord blood to public banks
- D) Collecting cord blood for immediate use

2) What happens to cord blood if it is not stored or donated?

- A) It is used for research purposes
- B) It is stored in private banks
- C) It is discarded as medical waste
- D) It is sent to a public donation center

3) What type of cells are found in umbilical cord blood?

- A) Red blood cells
- B) Nerve cells
- C) Stem cells
- D) Muscle cells

4) Which disease can be treated with cord blood stem cells?

- A) Diabetes
- B) Leukemia
- C) Alzheimer's
- D) Osteoporosis

5) Where is umbilical cord blood collected from?

- A) The baby's bloodstream
- B) The placenta and umbilical cord
- C) The mother's blood
- D) The amniotic fluid

6) Which type of banking involves donating cord blood to help others?

- A) Private cord blood banking
- B) Public cord blood banking
- C) Commercial cord blood banking
- D) International cord blood banking

7) When should parents decide to store their baby's cord blood?

- A) During the first trimester of pregnancy
- B) Before 34 weeks of pregnancy
- C) Immediately after delivery
- D) Before labor starts

8) Which source of stem cells involves a less invasive collection method?

- A) Bone marrow
- B) Peripheral blood
- C) Umbilical cord blood
- D) Embryonic cells

9) What is a major advantage of umbilical cord stem cell transplants?

- A) They require a perfect match between donor and recipient
- B) They are collected from adults
- C) They have a lower risk of graft-versus-host disease
- D) They can be used without any processing

10) What must be avoided by donors before donating cord blood?

- A) Eating certain foods
- B) Exposure to diseases like hepatitis B and HIV
- C) Taking prescribed medication
- D) Attending medical check-ups

11)How is umbilical cord blood processed for banking?

- A) It is heated to remove impurities
- B) It is cryogenically frozen after processing
- C) It is mixed with other blood types
- D) It is turned into a gel-like substance

12)What is the criteria for umbilical cord blood donation regarding the donor's health?

- A) No history of autoimmune disorders
- B) No history of congenital abnormalities
- C) No recent surgeries
- D) No history of high blood pressure

13)How is cord blood transported to the banking facility?

- A) By gynecologist
- B) Using a medical courier arranged by calling a toll-free number
- C) By personal delivery from the parents
- D) Through a commercial courier service

14)What is a requirement for private cord blood banking?

- A) Donors must have a specific blood type
- B) There is an initial collection fee and annual storage fees
- C) The blood must be collected during a scheduled C-section
- D) The blood must be donated to a public bank first

15)What is the primary goal of cord blood collection?

- A) To use the blood immediately for the newborn
- B) To store the blood for potential future medical use
- C) To donate the blood to local hospitals
- D) To analyze the blood for genetic research

16)What type of stem cells can differentiate into almost any cell type in the body?

- A) Adult stem cells
- B) Hematopoietic stem cells
- C) Embryonic stem cells
- D) Peripheral blood stem cells

17)Why might cord blood be a preferred source of stem cells for some transplants?

- A) It is collected from adults
- B) It is less likely to cause graft-versus-host disease
- C) It is collected from older donors
- D) It is less adaptable than other sources

18)What is the limitations of umbilical cord blood transplants?

- A) The transplanted cells have a very high risk of rejection
- B) The number of stem cells in the blood may be insufficient for larger patients
- C) It is not compatible with many diseases
- D) The cells have an immediate risk of causing genetic disorders

19)What must happen to the cord blood after it is collected from the umbilical cord?

- A) It is immediately used for medical treatment
- B) It is processed, screened, and then cryogenically frozen
- C) It is analyzed for its nutritional content
- D) It is mixed with other blood samples

20)What should parents do if they decide to store their baby's cord blood?

- A) Purchase a private storage kit
- B) Arrange for a medical courier to transport the blood
- C) Directly deliver the blood to the storage facility
- D) Contact a public donation center

21)What is the key factors that makes umbilical cord blood stem cells more adaptable?

- A) They are collected from older children
- B) They are less mature and therefore less likely to cause rejection
- C) They are immediately used without processing
- D) They are mixed with stem cells from other sources

22)How does the engraftment speed of umbilical cord blood compare to other sources?

- A) It is faster
- B) It is slower
- C) It is similar
- D) It is variable and unpredictable

23)What is required for the cord blood collection to be successfully transported to the bank?

- A) The blood must be analyzed at the delivery center
- B) The blood must be kept at room temperature and transported immediately
- C) The blood must be refrigerated at the delivery center
- D) The blood must be mixed with other samples before transport

24)What is a potential application of umbilical cord blood stem cells in regenerative medicine?

- A) Treating severe infections
- B) Potentially treating conditions such as diabetes and cerebral palsy
- C) Replacing damaged organs instantly
- D) Curing all genetic disorders

25) Which of the following cord blood stem cell bank is located at mumbai

- A) Lifecell
 - B) Cordlife india
 - C) Cryo stemcell
 - D) Cryoviva india
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ANSWER KEY:

QUESTION NO	ANSWER
1.	B
2.	C
3.	C
4.	B
5.	B
6.	B
7.	D
8.	C
9.	C
10.	B
11.	B
12.	A
13.	B
14.	B
15.	B
16.	B
17.	B
18.	B
19.	B
20.	B
21.	B
22.	B
23.	B
24.	B
25.	A