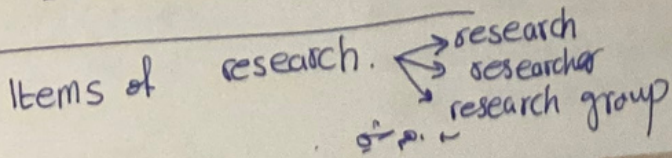


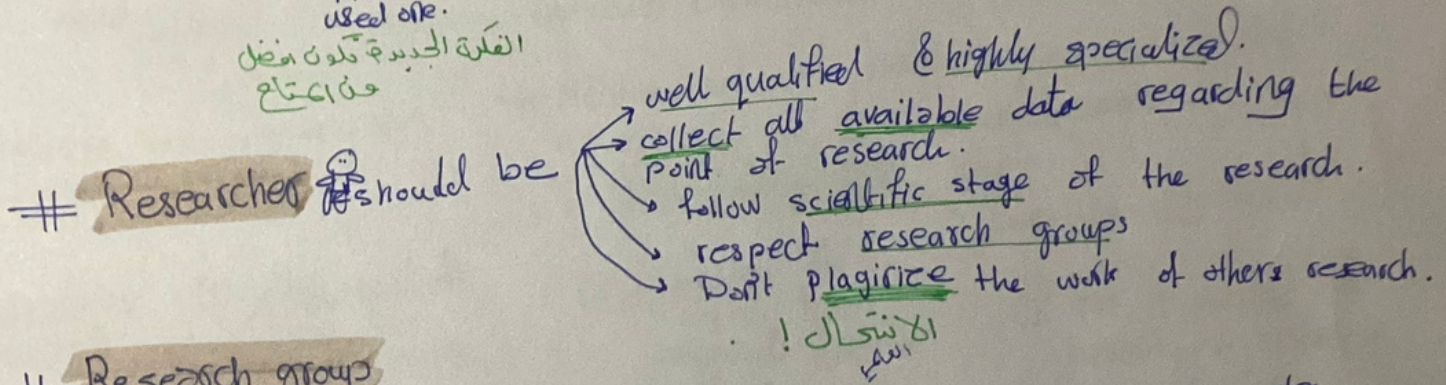
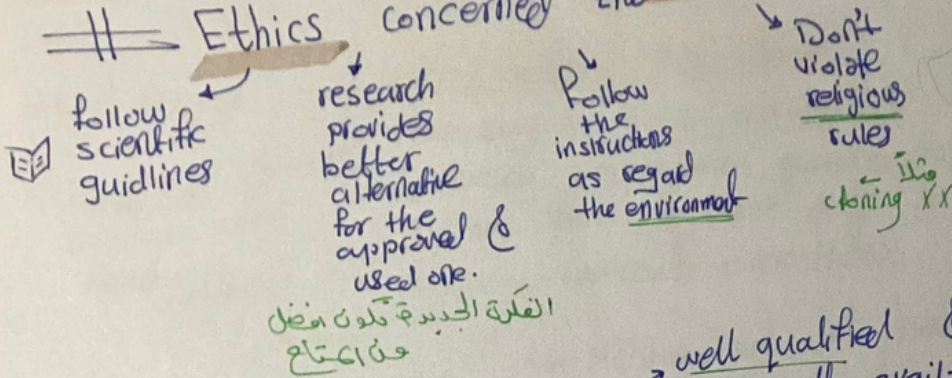
Declaration of Helsinki 1964

standards / مبادئ

- Greater care
- strong independent justification for exposing a healthy volunteer to substantial risks of harm.



Ethics concerned the research itself.



Research group

animals

- select suitable number
 - (not more / not less to give significant statistic result)

• suitable species

- Don't perform more than one experiment on the same animal

- Use the least harmful maneuvers with animals

- Use suitable food & care for the animals

- If → killing use non-painful technique.

Human

- an animal before
- obtained written consent
- can withdraw at any time without threats or punish.

• benefits > RF

- suitable # of volunteers sample.

- confidentially ⇒ keep patient & volunteer's data secret.

- Do your best to minimize side effects

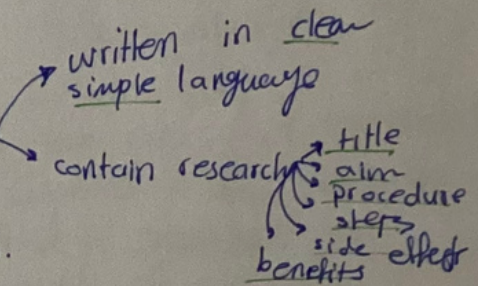
- Respect social & religious aspects of value

- Determine When to stop.

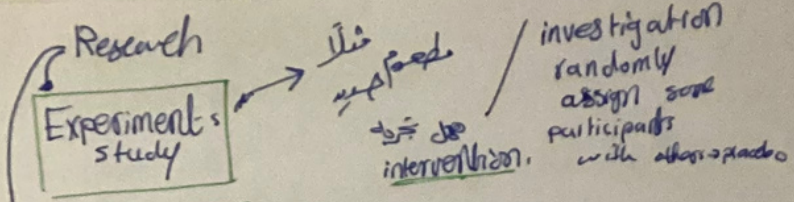
- The main object of volunteer is not gaining

money

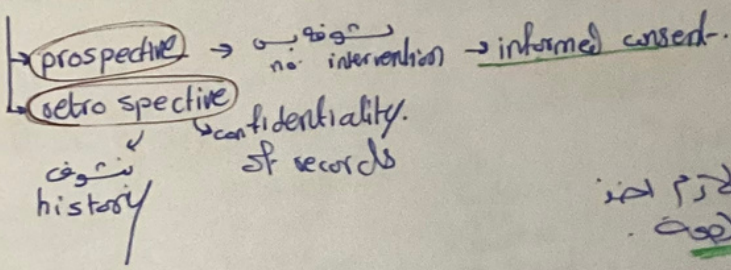
- If any harm will occur, she/he will be compensated



كان هذا يكون قد و في methodology



* DNA / genomic material
 → informed consent
 No further tests
 ...
 & transportation & security



+ اية دواء يشغل عليه لدرم احد موافقة وزارة الصحة

Vulnerable subjects → sub-segment. maximum careful attention.

- Infants / children / young people. < 18
- consent from → guardians
- research is not applicable on adult.

benefits mainly related for this group.

- Pregnant & lactating woman.
- consent from → husband & wife.
- inability to perform → non pregnant.
- No risk to infant & children.

When to stop the research?

- impossible to reach the aim
- Endanger the life.
- risk >>> benefit.

- Prisoners
- must obtain full medical care
- consent.
- Full rights as free person

Stem cell research.

- From embryo or adult.
- consent → mother → cord blood.
- couple → spare embryo.
- treatment only / Not cloning

Research misconduct

Fabrication → Making up data or results & recording or reporting them.
فرك

Falsification → manipulating research materials, equipment or process
or changing or omitting data or result.

Plagiarism ⇒ the use of another person's ideas, processes, results or words without giving appropriate credit & presenting them as your own.
الاستخدام الغير

↳ how to check
↳ soft ware.

Non-Publication of Data ⇒ Data not included in result because they don't support the desired outcome.

Authorship

technician → X
involve only those who contribute directly

publication.

dual publication → unethical.

و بتفقا
ترتيبها

اولها

big professor
خبرتها

Implications

- protocol
- undertaking study
- interpretation
- making recommendation.
- presenting your findings