

Prevalence of Abnormal Semen Parameters in Men Attending Infertility Clinic in Delhi: A Retrospective Cross-Sectional Study



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INTERSHIP ORGANIZATION: NIFHW



BRIEF HISTORY AND INTRODUCTION

The National Institute of Health and Family Welfare (NIHFW) was established on 9th March, 1977 by the merger of two national level institutions, viz. the National Institute of Health Administration and Education (NIHAE) and the National Institute of Family Planning (NIFP). The NIHFW, an autonomous organization, under the Ministry of Health and Family Welfare, Government of India, acts as an 'apex technical institute' as well as a 'think tank' for the promotion of health and family welfare programmes in the country. The Institute addresses a wide range of issues on health and family welfare from a variety of perspectives through the departments of Communication, Community Health Administration, Education and Training, Epidemiology, Management Sciences, Medical Care and Hospital Administration, Population Genetics and Human Development, Planning and Evaluation, Reproductive Bio-Medicine, Statistics and Demography and Social Sciences.

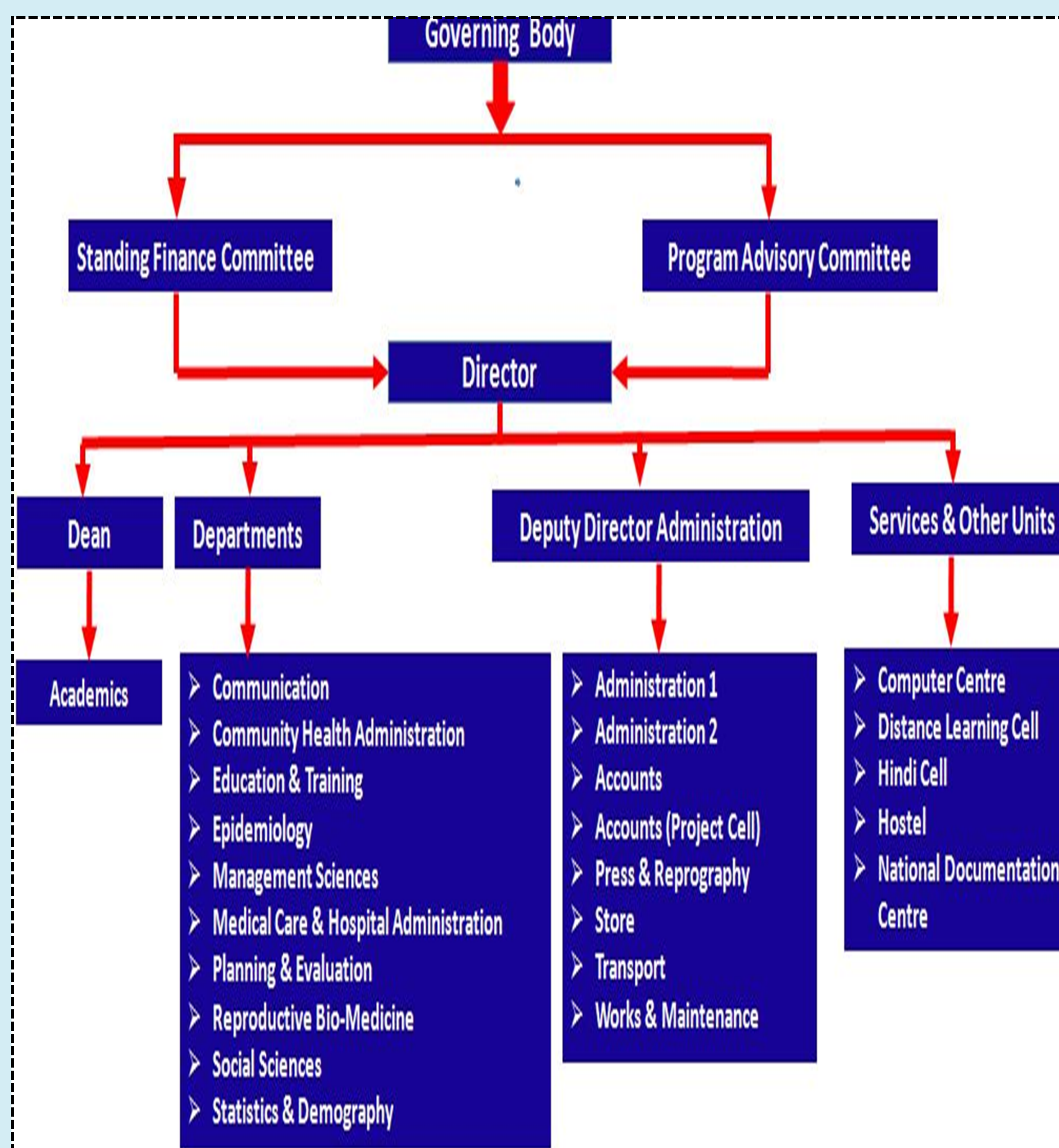
VISION

NIHFW is to be seen as an Institute of global repute in public health & family welfare management.

MISSION

To act as think tank, catalyst & innovator for management of public health and related health & family welfare programmes by pursuing multiple functions of Education & Training, Research & Evaluation, Consultancy & Advisory services as well as provision of specialised services through inter-disciplinary teams.

ORGANISATION CHART



USEFULNESS OF INTERSHIP

- Helped in gaining practical experience of how central government Organisation works on daily basis.
- How to work in a challenging environment with limited resources.
- Communication with higher authority.
- Improves self confidence

ABSTRACT OF THE STUDY

Infertility, a disorder of the reproductive system, is characterized by the inability to conceive a healthy child after 12 months or more of consistent, unprotected sexual activity. According to the World Health Organization, 60–80 million couples worldwide struggle with infertility, affecting 15%–20% of the general population, with male factors accounting for 20%–40% of these cases. This study utilized existing laboratory reports of semen analysis, conducted according to WHO guidelines, from January 1, 2023, to April 30, 2023. These reports were obtained from infertility clinics at NIHFW Munirka, Delhi, with permission from concerned authorities and in strict adherence to ethical guidelines. A total of 504 males, aged between 21 and 52 years with an average age of 31.492 ± 4.727 years, were investigated. The study found that 77.57% of the cases exhibited severe forms of semen abnormalities, including azoospermia, oligospermia, and asthenospermia, while 22.42% of the cases had normal semen. The most common abnormalities observed were asthenospermia (reduced sperm motility) at 46.725%, oligospermia (reduced sperm concentration) at 22.42%, and oligoasthenospermia (reduced motility and sperm concentration) at 14.28%, followed by azoospermia (no sperm present) at 8.33%.

SWOT ANALYSIS



DIFFERENCE BETWEEN PRACTICAL EXPOSURE AND THEORETICAL UNDERSTANDING

- Theoretical understanding provides the foundation knowledge and concepts about the organization. But practical exposure provides real time functioning, challenges of the organization.
- Theoretical knowledge increases information, but practical exposure increases the application of the information for better outcomes.
- Practical exposure improves creativity.
- Practical exposure improves adaptability to work in challenging situations.

CHALLENGES FACED DURING INTERSHIP

- Limited Research knowledge
- Data privacy and confidentiality
- Lack of intradepartmental coordination in the Organisation
- Lack of data analytics software knowledge
- Limited guidance from Organisation mentor
- No live projects for interns and limited access to trainings and workshops

LEARNINGS DURING INTERSHIP

- Learned about the research using secondary data
- Visual representation of data
- Data analysis with interpretation
- Introduction to SPSS software
- How to work in a government Organisation
- Collaboration of government and non-government Organisation
- India's vaccine management and cold chain logistics

SUGGESTIONS

- The Information, Education, and Communication (IEC) materials should be updated.
- Infrastructure improvements.
- Greater usage of secondary data for research.
- Frequent meeting of ethical review committee.
- Better marketing strategy for awareness about infertility clinics.
- Interdepartmental coordination