



Mr Bharat Vishnu Joshi, MSc,

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Curriculum Vitae

Bharat Vishnu Joshi is working as the Laboratory Director & Chief Embryologist at Pulse Women's Hospital (formerly Melbourne IVF Gujarat), Ahmedabad since its' inception in October,1996. The group has international collaboration with Melbourne IVF, Australia. Around 5000 fresh and thaw Embryo Transfer cycles have been performed. Mr Bharat Vishnu Joshi was born in Ajmer and acquired his Masters in Science from the Rajasthan University. Deep interest for life sciences prompted him to take a job in the Frozen Semen Laboratory of the National Dairy Development Board (NDDB), Anand. During this assignment besides mastering the technique of freezing buffalo bull semen, the supply of frozen semen doses from this lab.rose from a mere 4000 to half a million annually before he opted for working in the new technology of Multiple Ovulation & Embryo Transfer in cattle and buffalo. Being the main laboratory of the lead implementing agency, the NDDB for this project of Government of India, their group had successfully created a network of 4 regional laboratories to establish frozen embryo bank and 25 state centres to carry out field embryo transfers in farm animals. During this process their group was first to:

- *introduce slow tapering superovulation regimen in buffaloes*
- *produce first buffalo calf in the world thru nonsurgical embryo transfer*
- *produce first pregnancy in buffalo in the world thru transfer of frozen thawed embryos*
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Mr Joshi has so far published 13 scientific papers (9 international and 4 national) and made 26 scientific presentations (4 international and 22 national). He has attended numerous conferences and workshops and has also arranged several workshops.

An urge to do something related though different made him join the Melbourne IVF Gujarat since its' inception in 1996. He got trained in Intra Cytoplasmic Sperm Injection (ICSI) technique in Australia at Melbourne IVF and Royal Womens' Hospital at Melbourne. Heading the IVF laboratory of MIVFG, he is also looking after the embryology part of other Melbourne IVF India centers at Nairobi, Ghana, Dhaka, Trivandrum, Mumbai, Nagpur and Lucknow.

Personal Information :

Name : Bharat Vishnu Joshi
Dt. Of Birth : 31st August, 1954
Marital Status : Married (1 son and 1 daughter)
Present Employment : Lab. Director and Chief Embryologist, Pulse
Women's Hospital, Ahmedabad
Edu. Qualification : Post Graduate (Master in Science – Chemistry)

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Practical Experience :

- a. Working as the Laboratory Director & Chief Embryologist at Pulse Women's Hospital (formerly Melbourne IVF Gujarat), Ahmedabad since its' inception in October,1996. The group has international collaboration with Melbourne IVF, Australia. Around 5000 fresh and thaw Embryo Transfer cycles have been performed. Set up IVF centres at MIVF Mumbai, Lucknow and Nagpur under our technical collaboration. Visiting embryologist to ART centres in Kenya, Ghana and Trivandrum.
- b. 1987 to 1996 : posted at the Main Embryo Transfer Lab. of the National Dairy Dev. Board (NDDB) at Sabarmati Ashram Gaushala. The lab. was involved in over one thousand superovulations in cattle and buffalo. During my tenure about five thousand embryos were evaluated of which around 1000 were cryopreserved. Technical guidance to 4 regional and 14 state centres in India in the field of estrus-synchronisation, superovulation, embryo-identification, evaluation, freezing and thawing was provided. This lab. has produced the first buffalo calf

in the world and Asia through surgical and non-surgical embryo transfers respectively.

- c. 1978 to 1986 : posted at the Frozen Semen Laboratory of the National Dairy Dev. Board at Sabarmati Ashram Gaushala. The lab. was involved in freezing over one million doses of bovine frozen semen and dispatching it throughout the country for field inseminations.

SPECIALIZED TRAINING AND COURSES:

- a. One month hands on training on '**Intra Cytoplasmic Sperm Injection**' of human oocytes at *Melbourne IVF and Royal Womens' Hospital, Melbourne, Australia* during Nov.- Dec., 1996.
- b. Two days training on IMSI and Octax Laser system at MTG, Germany, Nov.2008
- c. Short Fellowship in IVF lab. Procedures and stem cell, Jan. 10-20,2006 Cha General Hospital, Seoul
- d. Miniworkshop Principles & procedures in a modern Scandinavian fertility program, Skive Hospital, Denmark, June 24-25,2003
- e. Participated in the workshop on '**ASSISTED REPRODUCTIVE TECHNIQUES**' organized by *Dr. Indira Hinduja* at the Sunflower IVF Centre, Bombay (16th to 21st January, 1995).
- f. Attended training course on '**Molecular approaches to predetermination of SEX in farm & experimental animals**' conducted at the *National Institute of Immunology, New Delhi* (9th – 24th, 1991)
- g. Training by *Prof. Maarten Drost*, Uni. Of Florida, USA in '**Embryo Transfer Techniques in Buffales & Cows**' at National Dairy Dev. Board's Embryo Transfer Lab. at Sabarmati Ashram Gaushala, Bidaj (4th – 10th April, 1987)
- h. Practical training by *Prof. N.O. Rasbach* in '**Evaluation and freezing of cattle and buffalo semen**' at National Dairy Dev. Board's Semen Freezing Lab. at Sabarmati Ashram Gaushala, Bidaj (5th – 15th January, 1978)

Teaching Experience :

- Imparting training to gynecologists in Intra Uterine Insemination, *in-vitro* Fertilization and micromanipulation. So far trained 200 persons.
- Multiple Ovulation & Embryo Transfer, Frozen Semen Technology hands-on training to the veterinarians working in the field of Artificial Insemination.
- Training to veterinarians in Frozen Semen Handling.

WORKSHOPS ARRANGED :

1. Chaired and conducted IUI and IVF workshops at Indian Society for Assisted Reproduction, Pune, 1st March, 2009.
2. Faculty, 10th National congress on ART & Advances in Infertility Treatment, Jodhpur, 2004
3. Post Congress workshop on 'Cryopreservation of Human Semen and Embryos' at Ahmedabad organized by the Indian Society for Assisted Reproduction & MIVFG , 1st March,1999.
4. 'Sperm Preparation and Intra Cytoplasmic Sperm Injection' : organized by Urological Society Of Ahmedabad & MIVFG, 21st Feb,2000.
5. 'Intra Uterine Insemination' at MIVFG, 1 – 2 July, 2000

CHAPTER CONTRIBUTED :

In 'INFERTILITY MANUAL' edited by Kamini A Rao and Peter R. Brinsden titled 'Setting- up an IVF unit' authors Bakul M Patel and **Bharat V. Joshi** (p 413-421)

SCIENTIFIC PAPERS : PUBLISHED

1. Misra, A.K., **Joshi, B. V.**, Agrawala,P.L., Kasiraj, R., Sivaiah, S., Rangareddi, N.S. and Siddiqui, M.U. (1990).
'Multiple Ovulation and Embryo Transfer in Indian Buffaloes (Bubalus bubalis)'. *Theriogenology* , 33 (1) : 289 (abstr.)
2. Misra, A.K., **Joshi, B. V.**, Agrawala,P.L., Kasiraj, R., Sivaiah, S., Rangareddi, N.S. and Siddiqui, M.U. (1990).
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3. Misra, A.K. and **Joshi, B. V.** (1991).
'Relationship Between the synchrony of Donor-Recipient Estrus and Successful Pregnancies Through Embryo Transfer in Buffaloes'.
Buffalo Journal , 7 (1) : 71 -75
4. Misra, A.K, **Joshi, B. V.**, Kasiraj, R., Sivaiah, S.and Rangareddi, N.S. (1991).
'Improved Superovulatory Regimen for Buffalo '.
Theriogenology , 35 (1) : 245 (abstr.)
5. **B. V. Joshi**, A.K. Misra, G. Krishna Kishore, R.S. Jaiswal, S.A. Chaubal and S. Rajeswaran

- Effect of Different Dosage of FSH-P on Superovulation in Cattle'.
Indian Vet. Journal , 70, May- 1993 : 405 - 407
6. Misra, A.K., **Joshi, B. V.** and Nair, H.K. (1992):
`Application of Multiple Ovulation and Embryo Transfer in Field Cows'.
The Indian Journal of Animal Reproduction , 13 (1) : 16-17
 7. Rajeswaran, S., Misra, A.K. and **Joshi, B. V.** (1992):
`Synchronisation of Estrus in Surti Buffaloes'.
The Indian Journal of Animal Reproduction , 13 (1) : 20-22
 8. **Joshi, B. V.**, Rajeswaran, S. and Misra, A.K. (1992):
`Effect of FSH-P Priming on Superovulatory Response in Buffalo (*Bubalus bubalis*)'.
Theriogenology , 37 (1) : 232 (abstr.)
 9. Misra, A.K, **Joshi, B.V.**, Chaubal, S.A., Kishore, G.K., Rajeswaran, S. Joshi, B. V. and Jaiswal, R.S. (1992).
`Superovulatory Response to Single Subcutaneous Injection of Follitropin in Holstein and Sahiwal Cows '. (abstr.)
Theriogenology , 37 (1) : 260
 10. A.K. Misra, **B. V. Joshi**, P.L.Agrawala, R. Kasiraj, S.Sivaiah, N.S. Rangareddi and M.U. Siddiqui (1992).
`Cryopreservation of Bubaline Embryos '.
Buffalo Journal , 3 : 297 – 303.
 11. S. Rajeswaran, K.R. Trivedi, A.K. Misra and **B. V. Joshi**
`Post Superovulatory Return-to-Estrus with Prostaglandin in Buffalo (*Bubalus bubalis*)'.
Indian Vet. Journal , 70, February, 1993 : 131 – 133
 12. M R Banker, P M Patel, **B V Joshi**, P B Shah (2008).
`Fixed- dose of recombinant follicle stimulating hormone (200 IU vs 300 IU) in Indian women undergoing Intracytoplasmic Sperm Injection – A comparative study '
Fertility and Sterility, vol.90, suppl.1, September, 2008 (S478 – A-333)
 13. M R Banker, P M Patel, **B V Joshi**, P B Shah, D V Patel (2008).
`Antagonist Protocol in oocyte-donors egg sharing programme is equally efficient as the agonist protocol in patients of same age group'
Fertility and Sterility, vol.90, suppl.1, September, 2008 (S479 – A-334)

SCIENTIFIC PAPERS : PRESENTED

1. Prabhakar, J.H., Singh, D.V., Misra, A.K and **Joshi, B.V.** (1985) :
`Some Observations on Semen Quality of Murrah and Surti Bulls Under Custom Freezing Programme '. Paper presented at the All India Symposium on Semenology with special reference to buffalo semen at Pantnagar. October, 29-30.
2. Misra, A.K, **Joshi, B. V.**, Rajeswaran, S., Motwani, K.T. and Yadav, M.C.
`Intergeneric Embryo Transfer Between Water Buffalo and Cattle'
Proc. First Annual Conference of the Indian Society for the Study of Reproduction and Fertility, 149. (1988)
3. Yadav, M.C., Misra, A.K, Motwani, K.T., Rajeswaran, S. and **Joshi, B. V.**
`Superovulation in Buffaloes: Ovarian Response to Different Regimens of FSH-P'
Proc. II World Buffalo Congress, New Delhi, 1988, Vol. I : 129
4. Yadav, M.C., Misra, A.K, Motwani, K.T., Rajeswaran, S. and **Joshi, B. V.**
`Efficacy of Luproliol for Inducing Estrus in Superovulated Buffaloes'
Proc. II World Buffalo Congress, New Delhi, 1988, Vol. I : 128
5. Misra, A.K., **Joshi, B. V.**, Agrawala, P.L., Kasiraj, R., Sivaiah, S., Rangareddi, N.S. and Siddiqui, M.U.
`Multiple Ovulation and Embryo Transfer in Indian Buffaloes (Bubalus bubalis)'
Proc. National Symposium on Applied Reproduction in Farm Animals and VIIIth Convention of ISSAR , Anand, 10-12 Nov., 1989, 3.
6. Misra, A.K. and **Joshi, B. V.** ;
`Relationship Between the synchrony of Donor-Recipient Estrus and Successful Pregnancies Through Embryo Transfer in Buffaloes'.
Proc. National Symposium on Applied Reproduction in Farm Animals and VIIIth Convention of ISSAR , Anand, 10-12 Nov., 1989, 4.
7. Misra, A.K, **Joshi, B. V.**, Kasiraj, R., Sivaiah, S. and Rangareddi, N.S. :
`Improved Superovulatory Regimen for Buffalo '
Proc. Annual Conference of the International Embryo Transfer Society, Bournemouth, UK, 13-15 Jan., 1991.

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`Effect of Different Dosage of FSH-P on Superovulation in Cattle'.
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9. S. Rajeswaran, A.K. Misra and **B. V. Joshi**
`Synchronisation of Estrus in Surti Buffalo'.
Proc. National Symposium on Recent Biotechnical Advances in Animal Reproduction , Hisar, 6 - 8 Feb., 1991.
10. S. Rajeswaran, A.K. Misra, **B. V. Joshi** and K.R. Trivedi
`Post Superovulatory Prostaglandin Effect in Buffalo'.
Proc. National Symposium on Recent Biotechnical Advances in Animal Reproduction , Hisar, 6 - 8 Feb., 1991.
11. Rajeswaran, S., Misra, A.K. and **Joshi, B.V.** (1991) :
`Synchronisation of Donor – Recipient Estrus in Buffalo Embryo Transfer Programme'.
Proc. National Symposium on the `Recent Physiological Techniques to Improve Animal Production.
VIIth Annual Conference of SAPI at Madras, 27-30 Dec.
12. Siddiqui, M.U., Sidhu, P.V.S., Tiwari, S., **Joshi, B.V.** and Misra, A.K.
`Comparison of Two Different Doses of Folltropin and Effect of its' Priming on Superovulatory Response of Imported Holstein Cows in India' (abstr).
Seminar on `Embryo Transfer and Associated Technologies in Livestock Improvement – Present Status and Future Needs'
At IVRI, Izatnagar, 16 –17 April, 1992.
13. A.K. Misra, **B. V. Joshi**, S.A. Chaubal, R.S. Jaiswal, R. Kasiraj, M.M. Rao and N.S. Rangareddi (1992)
`Cryopreservation of Bovine and Bubaline Embryos : Post-Thaw Survival and Conception Rates Under Field Conditions'.
International Conference on Fertility Regulation, Bombay, 5-8 Nov., p. 312
14. A.K. Misra, S.H. Patel, **B. V. Joshi**, R.S. Jaiswal, B.H. Savani, S.S. Patel and K.R. Trivedi (1992)
`Buffalo Semen Characteristics and Its' Freezability Under Indian Conditions'
IV World Buffalo Congress at Sao Paulo, Brazil, 1994.

15. A.K. Misra, R. Kasiraj, M. Mutha Rao, N.S. Rangareddi, **B. V. Joshi**, R.S. Jaiswal, and K.R.Trivedi (1992)
`Embryo Transfer in Buffalo : Progress in the Last Five Years'
IV World Buffalo Congress at Sao Paulo, Brazil, 1994.
16. Banker, M.R., Patel, P.M., Patel, B.M., **Joshi, B.V.** and Marfatia, R. (1999)
`Collaboration In ART'
11th World Congress on IVF and Human Reproductive Genetics at Sydney
9 –14 May, 1999 p. 293.
17. **Bharat Joshi**, Manish Banker, Bakul Patel, Pravin Patel and Riddhi Marfatia
`Number of Embryos Available Affect Pregnancy-Rate more than the Number of Embryos Transferred'
5th National Congress on ART and Advances in Infertility Management at Ahmedabad, 25 Feb. – 1 March, 1999 p. 29 - 30.
18. Bakul Patel, **Bharat Joshi**, Manish Banker, Pravin Patel and Riddhi Marfatia
`Cryopreservation in A.R.T.'
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19. Riddhi Marfatia, Manish Banker, Bakul Patel, Pravin Patel and **Bharat Joshi**
`Optimum Insemination Dose in Intra Uterine Insemination and In Vitro Fertilization'
5th National Congress on ART and Advances in Infertility Management at Ahmedabad, 25 Feb. – 1 March, 1999 p. 80 – 81.
20. Sandeep Shah, Manish Banker, Pravin Patel, Bakul Patel, **Bharat Joshi** and Riddhi Marfatia
`Ultrasound Guided Embryo Transfer '
5th National Congress on ART and Advances in Infertility Management at Ahmedabad, 25 Feb. – 1 March, 1999 p. 82 – 83.
21. **Bharat Joshi**, Manish Banker, Pravin Patel, Tejas Dave, Preeti Shah, Manish Shah , Comparison of outcome of ART cycles with transfer of fresh or frozen Embryos, Indian Society of Assisted Reproduction, Chandigarh, 2007
22. **Bharat Joshi**, Manish Banker, Pravin Patel, Tejas Dave, Preeti Shah, Manish Shah , Comparison of outcome of ART cycles with transfer of fresh or frozen Embryos, Indian Society of Assisted Reproduction, Chandigarh, 2007
23. Factors influencing IUI-outcome

Preeti Shah, Pravin Patel, Manish Banker, Tejas Dave, **Bharat Joshi**
Indian Society of Assisted Reproduction, Chandigarh, 2007

24. Efficacy of Embryo Freezing in ART programme
Manish Banker, Pravin Patel, Tejas Dave, **Bharat Joshi**, Preeti Shah,
Deven Patel
Indian Society of Assisted Reproduction, Chandigarh, 2007
25. **Bharat Joshi**, Preeti Shah, Pravin Patel, Manish Banker, Deven Patel
Comparison of pregnancy-outcome of frozen- thawed embryos with or
without culture after thawing , Indian Society of Assisted Reproduction,
Pune, 2009
26. **Bharat Joshi**, Preeti Shah, Pravin Patel, Manish Banker, Deven Patel
Quality (in an ART Lab.), Indian Society of Assisted Reproduction, Pune,
2009