

**RESUME**



**Dr. Amardeep Pathak**  
**MD (Transfusion Medicine) [AFMC]**

## CURRICULUM VITAE (Resume)

**Dr. AMARDEEP PATHAK**

**RESIDENTIAL ADDRESS:**

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**EDUCATIONAL QUALIFICATIONS:**

Course	Examination	Name of the Institution	Board / University	Year of Passing
Post Graduation	M.D. (Transfusion Medicine)	Armed Forces Medical College (AFMC), PUNE (MH)	Maharashtra University of Health Sciences, Nashik	May 2012
Degree	M.B.B.S	R. D. Gardi Medical College, UJJAIN (MP)	Vikram University, Ujjain, Madhya Pradesh	Nov. 2006
10+2	Higher Secondary School Certificate Examination	Balak Mandir H. S. School, GWALIOR (MP)	Madhyamik Shiksha Mandal, Bhopal, Madhya Pradesh	March - April 1997
10 Std.	High School Certificate Examination	Balak Mandir H. S. School, GWALIOR (MP)	Madhyamik Shiksha Mandal, Bhopal, Madhya Pradesh	March-April 1995

**RECENT ACTIVITY & POSITION:**

- Asst. Prof. in Dept. of Pathology, Bharati vidhyapeeth Medical college (from 06/07/12 to till date)
- In-charge of Blood Bank, Bharati hospital & research center (from 06/07/12 to till date)
- Internal Auditor (*NABL & QCI Certified*)

**TRAINING/WORKSHOPS ATTENDED:**

- Quality management system & internal auditor training course (***NABL & QCI Certified***), organized by St. John's Medical College, Bangalore, from 15 March to 18 March 2013.
- Milestones in Medicine 2011, National Medicine Update – AFMC, Pune (07 Sep 2011)
- Transfusion Medicine & Immunohaematology at ***National Institute of Immunohaematology (NIH), ICMR***, Mumbai from 12<sup>th</sup> July to 25<sup>th</sup> August 2011.
- Advanced techniques in Pathology, AFMC, Pune–40. (23<sup>rd</sup> to 25<sup>th</sup> Oct. 2009)
- Problem solving for better health organized by Dept of Community Medicine, R D Gardi Medical College, Ujjain & sponsored by Dreyfus Health Foundation, New York, USA & Health Action by People, Thiruvananthpuram, India on 24 – 25 March, 2004.

**CONFERENCES/CME ATTENDED:**

1. CME in Haematology held in Pune on 14<sup>th</sup> October, 2012, organized by DMH & Pune haematology group. [**02 credit hrs.**]
2. XVIII<sup>th</sup> National CME in Hematology (26<sup>th</sup> to 29<sup>th</sup> Jan. 2012), Dept of Hematology, Bombay Hospital Institute of Medical Sciences, Mumbai. [**06 credit hrs.**]
3. 36<sup>th</sup> Annual National Conference of Indian Society of Blood Transfusion & Immunohaematology, TRANSCON 2011 (30<sup>th</sup> Oct. – 01 Nov., 2011), Chandigarh. [**12 credit hrs.**]
4. GYNECON – 2011 CME on “Current Issues in Obstetrics & Gynecology” held on 27<sup>th</sup> – 28<sup>th</sup> Aug. 2011, AFMV, Pune. [**04 credit hrs.**]

5. Symposium on “New Processes in Blood Banking”, especially “Buffy coat pooling for Harvesting Therapeutic Platelet concentrates and Pre-storage leucoreduction”, ISBTI Maharashtra Chapter on 18<sup>th</sup> Jan. 2011 at Pune.
6. 35<sup>th</sup> Annual National Conference of Indian Society of Blood Transfusion & Immunohaematology, TRANSCON 2010 (12<sup>th</sup> – 14<sup>th</sup> Nov., 2010), Hyderabad (AP state chapter). [**12 credit hrs.**]
7. CME on Transfusion Medicine on 27<sup>th</sup> Feb. at Deenanath Mangeshkar Memorial Hospital, ISBTI Chapter, Pune.
8. 66<sup>th</sup> Annual Bombay Medical Congress, on 06<sup>th</sup> – 07<sup>th</sup> 2010, INHS Ashwini, Mumbai.
9. INDO – US joint regional CME in Paediatrics & Neonatology held on 18<sup>th</sup> Dec. 2007 at, R D Gardi Medical College, Ujjain.
10. MP state conference on Critical care, UJJAIN – 10<sup>th</sup> July 2005.

#### **PRESENTATION:**

1. **Title:** “Changing trends of transfusion transmitted viral infections among blood donors in the last decade—a 10-year study in a large tertiary care blood bank (2000–2009”. (**Oral paper**)  
**Place:** 66<sup>th</sup> annual Bombay Medical Congress’10, INHS Ashwini, Mumbai. (6<sup>th</sup>-7<sup>th</sup> Feb. 2010)
2. **Title:** “Adverse Events related to Apheresis: incidence & frequency”. (**Poster presentation**)  
**Place:** TRANSCON’2010, Hyderabad. (12<sup>th</sup> to 14<sup>th</sup> Nov. 2010)
3. **Title:** “The effect of repeated freezing & thawing on Vitamin K dependent coagulation factors & fibrinogen levels in Fresh Frozen Plasma”. (**Oral paper**)  
**Place:** TRANSCON’2011, Chandigarh. (30<sup>th</sup> Oct. to 01 Nov. 2011)

**ACADEMIC AWARDS/CERTIFICATES:**

1. III<sup>rd</sup> prize with certificate in *Oral paper* presentation at TRANSCON – 2011, Chandigarh. (**Title:** “The effect of repeated freezing & thawing on Vitamin K dependent coagulation factors & fibrinogen levels in Fresh Frozen Plasma”)
2. Certificate for 06 wks training in Immunohaematology at **NIH**, Mumbai.
3. NABL & QCI certificate for Internal Auditor at St John’s Medical College, Bangalore.

**MEMBERSHIP:**

- Lifetime member -
  1. Indian Society of Blood Transfusion & Immunohaematology (**ISBTI**) 2010.
  2. Indian Society of Transfusion Medicine (**ISTM**), 2011.

**SOFTWARE KNOWLEDGE:**

- Well versed with Microsoft Word, Power Point & Excel.

**PUBLICATIONS:**

1. “Changing trends of transfusion transmitted viral infections among blood donors in the last decade—a 10-year study in a large tertiary care blood bank (2000 –2009)”. [**Original article Published in Medical Journal Armed Forces India (MJAFI), Volume 68, Issue 1 , Pages 28-32, January 2012].**
2. “Adverse events associated with apheresis procedures: Incidence and relative frequency” [**Original article published in Asian Journal of Transfusion Sciences, (AJTS), Volume 7, Issue 1, page 37 - 41, January - June 2013]**
3. “Factor IX deficiency (Christmas disease)” – [**Case report Published in Medical Journal Armed Forces India (MJAFI), Volume 68, Issue 4 , Pages 379 - 380, October 2012].**

4. "Effect of gamma irradiation with 30 gy on the coagulation system in leukoreduced fresh frozen plasma" [**Original article Published in Medical Journal Armed Forces India (MJAFI), Volume 69, Issue 1 , Pages 37 - 40, January 2013**].
5. "The effect of repeated freezing & thawing on Vitamin K dependent coagulation factors & fibrinogen levels in Fresh Frozen Plasma" [**Original article published in Asian Journal of Transfusion Sciences, (AJTS), Volume 7, Issue 1, page 11 - 15 , January - June 2013**]
6. "Genetic & haemostatic risk factors associated with myocardial infarction in younger individuals of western India" [**Original article Send to MJAFI**]

### **DISSERTATION:**

Submitted a Dissertation titled, "**The effect of repeated freezing & thawing on Vitamin K dependent coagulation factors & fibrinogen levels in Fresh Frozen Plasma**", as part of M.D. (Transfusion Medicine) Examination May, 2012, to Maharashtra University of Health Sciences, Nashik, Maharashtra.

#### **Abstract**

**Background:** Fresh Frozen Plasma (FFP) is considered adequate for transfusion immediately after thawing or for 24hrs if kept at 1-6°C, and is currently used most often to replace deficient clotting factors. If factor levels in refrozen FFP are within normal limits then this component can possibly be transfused, thus avoiding wastage of FFP.

**AIM:** To study the fate of Vitamin K - dependent Coagulation factors (F II, F VII, F IX, F X) and fibrinogen activity levels in repeatedly (twice) frozen & thawed FFP.

**Materials & Methods:** 200 FFP units comprising 50 of each major blood group (A, B, AB, O) were thawed at 37°C and 10-20 ml of FFP transferred in to transfer bags with the help of sterile connecting device (SCD). FFP samples were taken in to the tubes (1st Sampling), and then transfer bags were kept for 24 hrs at 4°C. After 24 hrs repeat samples were taken in tubes from the transfer bag (2<sup>nd</sup> Sampling), and then bags were re-stored at < -18°C. One week later the above procedure was repeated again. Coagulation factor activity & fibrinogen levels were measured by the automated coagulation analyzer.

**Results:** The levels of FII, F VII, F IX, F X and fibrinogen of all 200 FFP units, at all four time points, were above the lower normal value, but well within the normal range.

**Conclusion:** The levels of F II, F VII, F IX, F X & fibrinogen remain stable & adequate for transfusion in twice-thawed-and-refrozen FFP. This component can be safely used for transfusion as a source of vitamin K dependent clotting factors & fibrinogen.

### **TEACHING EXPERIENCES:**

Two & half years experience of teaching in AFMC for various courses, like-

1. *PG residents from various specialties* for their basic training in Transfusion Medicine. Along with theory lectures, practical demonstration & teaching about blood donor screening & bleeding, Blood Bank practices including blood grouping, compatibility testing, DAT/IAT & transfusion reaction workup, component preparation & their optimal storage temperature & shelf life. Demonstration of platelets collection (SDP) by different cell separators (MCS+ & AMICUS). Briefing of other sections like coagulation Lab., screening lab. & stem cell laboratory.
2. *Blood transfusion officer's (BTO) capsule course* – Army officers from various places came for training in Transfusion Medicine at AFMC. Theory lectures & practical demonstrations in various sections for them and at the end of training course seminars by them on important topics likes Recent advances & future trends in TM, stem cells in regenerative medicine & emerging transfusion transmitted pathogens.
3. *MBBS cadets/students* – brief introduction about various sections in dept. Of transfusion medicine at AFMC.
4. *Blood transfusion assistant's (BTA)*, Army technician from various places for their training at AFMC. For them theory lectures as well as practical demonstrations.
5. *Nursing staff's & students* from various departments/wards of military & command hospitals for their basic training in blood transfusion, transfusion reactions, component therapy etc. at dept. of Transfusion Medicine, AFMC.

09 months experience of teaching in Bharati Vidhyapeeth Medical College & Hospitals for various courses, like

1. *PG residents from various specialties* for their basic training in Transfusion Medicine. Along with theory lectures, practical demonstration & teaching about blood donor screening & bleeding, Blood Bank practices include blood grouping, compatibility testing, DAT/IAT & transfusion reaction workup. Theory lectures for component preparation & their optimal storage temperature & shelf life.
2. *MBBS students* – brief introduction of various sections of blood bank, teaching about blood donor screening & bleeding, Blood Bank practices include blood grouping, compatibility testing, DAT/IAT & transfusion

reaction workup. Theory lectures for component preparation & their optimal storage temperature & shelf life.

3. Technicians (Blood Bank & Lab.) - For them theory lectures as well as practical demonstrations. Regular monthly internal assessment (theory & practical)
4. DMLT students – Theory lectures, practical demonstration & teaching about blood donor screening & bleeding, Blood Bank practices include blood grouping, compatibility testing, DAT/IAT & transfusion reaction workup

### **WORK EXPERIENCE IN DIFFERENT AREAS OF TRANSFUSION MEDICINE:**

1. Blood donor's motivation, counseling, registration, physical examination, deferral/rejection, phlebotomy & post donation care.
2. *Components preparation* from whole blood by either PRP method or Buffy coat method i.e. PRBC, RDP, FFP & Cryoprecipitate.
3. *Preparation of leukoreduced & irradiated blood products* used in different conditions.
4. In *Immunohaematology & blood bank* - resolution of difficult cases of incompatible cross match & antibody screening/identification, transfusion reaction work-up, antenatal cases work-up, & work-up for DAT positive cases i.e. elution.
5. In coagulation lab. - Coagulation screen, mixing studies, test for PNH by gel card & other factor assays.
6. *Plateletpheresis* on different cell separators (>100 procedures on MCS<sup>+</sup> & Amicus)
7. *Therapeutic Plasma exchange (TPE)* for pt's like in cases of GBS & MG at Dept. of Transfusion Medicine, AFMC & Medical ICU, command Hospital, pune. More than 20 procedures in 07 cases done with great outcomes.
8. *Granulocyte collection* by apheresis machines for sepsis cases (ANC <500/ $\mu$ l) in haemato-oncology & posttransplantation.
9. *Peripheral blood stem cells (PBSC) collection* by Apheresis machines for Autologous Stem Cell Transplantation in cases of MM, NHL & HL. More than 15 procedures done in 05 cases with 01 relapse.
10. *Umbilical Cord blood collection* from mothers for their sibling in cases of CML & Thalassemia. 09 procedures done.
11. Preparation of PRBC for IUT procedures & witness all the procedures.
12. *Therapeutic phlebotomy* in cases of Polycythemia Vera & 2<sup>o</sup> erythrocytosis. More than 20 procedures done.



### **Work Experience in stem cell transplantation/Stem cell Isolation & culture:**

1. Bone Marrow Stem Cell Transplantation – Bone marrow collection & processing in cases of Myocardial infarction and stroke.
2. Peripheral Blood Stem Cell Transplantation – PBSC collection after pt's mobilization on 5<sup>th</sup> days with the help of cell separator, then processing of product & cryopreserved with 10% DMSO.
3. Umbilical cord blood stem cell Transplantation – UCBSC collection, processing with 6% HES, and then cryopreserved with 10% DMSO.
4. Flow Cytometer Characterization of Stem Cells.
5. Haematopoietic Stem Cell Culture.

### **BLOOD DONATION CAMPS EXPERIENCE:**

- More than 25 outdoor & indoor blood donation camps in Pune and outside Pune also like, Ahmednagar, Lonawala & dehu road.
- As a Transfusion medical officer Motivation of donors, instructions to donors about donations, observation during camp, donor deferral/rejection, management of donor adverse events, if any.
- Post donation care of donors & instructions to them for next 24 hrs.

### **SPORTS:**

1. Won 1<sup>st</sup> prize in Cricket at Medical College in MBBS.
2. Won 2<sup>nd</sup> prize in Badminton at Medical College in MBBS.

### **Reference:**

1. Brig R S Sarkar  
Former HOD & Prof  
Dept of Transfusion Medicine  
AFMC, Pune -40.
2. Colonel Joseph Philip  
Assoc Prof  
Dept of Transfusion Medicine  
AFMC, Pune -40.
3. Lt Col Satish Kumar  
Assoc Prof  
INHS Aswini  
Mumbai

**PERSONAL DETAILS:**

**Name** : Dr. Amardeep Pathak  
**Wife's Name** : Dr Manushri Sharma (Resident, MD  
Biochemistry, AFMC)  
**Father's Name** : Mr. A. R. Pathak  
**Mother's Name** : Mrs. Anjali Pathak  
**Date of birth** : 12<sup>th</sup> May 1980  
**Date of Anniversary** : 14<sup>th</sup> May 2011  
**Sex** : Male  
**Marital Status** : Married  
**Nationality** : Indian  
**Languages known** : Hindi, English  
**Hobbies** : Music, Badminton, Cricket, & Cooking

The details furnished above are true to the best of my knowledge.

Place: Pune, INDIA

Date: March 2013

(Dr. Amardeep Pathak)