

3. Evaluative Report of the Department of Pathology (January to December 2017)

1. Name of the Department **Post Graduate department of Pathology**
2. Year of establishment **1913**
3. Is the Department part of a college/Faculty of the university? **Yes**
4. Names of programs offered :**UG, PG, Ph.D., Integrated Ph.D., Diploma, PG Diploma, Diploma in Medical Laboratory training, B.Sc Nursing**
5. Interdisciplinary programs and departments involved:

A. Clinical Pathological programs with Departments of General Surgery, Obstetrics & Gynecology, Otolaryngology, Surgical Oncology, Pediatric Surgery, Neurosurgery, Pediatrics and Clinical Hematology every month

B. Training of SGPGIMS Post graduate students for 4 months every year

C. Posting of PG students in Department of Clinical Hematology

6. Courses in collaboration with other universities, industries, foreign institutions, etc. **None**
7. Details of programs discontinued, if any, with reasons **None**
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System **As per University rules**
9. Participation of the department in the courses offered by other departments **Yes**
10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	4+2	4+2
Associate Professor/Reader	9	7	7
Assistant Professor	11	7	7
Lecturer	NA		
Tutor / Clinical Instructor	-		
Senior Resident	-		

11. Faculty profile with name, qualification, designation, area of specialization,

experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Ashutosh Kumar	MD Path & Bact	Professor & Head	Hematology, Lymphoma & Leukemia	38
M M Goel	MD Path & Bact	Professor	Histopathology, Cytopathology, Immunodiagnostics	38
U.S Singh	MD Pathology	Professor	Hematology, Lymphoma & Leukemia	31
Suresh Babu	MD Pathology	Professor	Histopathology, Cytopathology,	24
Ajay Kumar Singh	MD Pathology	Additional Professor	Pathology	14
Rashmi Kushwaha	MD Pathology	Additional Professor	Pathology	13
Atin Singhai	MD Pathology	Associate Professor	Pathology	13
Wahid Ali	MSc, PhD	Associate Professor	Clinical Pathology	10
Riddhi Jaiswal	MD Pathology	Associate Professor	Pathology	12
Mala Sagar	MD Pathology	Associate Professor	Pathology	12
Malti Kumari	MD Pathology	Associate Professor	Pathology	12
Madhu Kumar	MD Pathology	Associate Professor	Pathology	11
Preeti Agarwal	MD Pathology	Associate Professor	Pathology	10
Mili Jain	MD Pathology	Assistant Professor	Pathology	8

Name	Qualification	Designation	Specialization	No. of Years of Experience
Chanchal Rana	MD Pathology	Assistant Professor	Pathology	8
Geeta Yadav	MD Pathology	Assistant Professor	Pathology	9
Shivanjali Raghuvanshi	MD Pathology	Assistant Professor	Pathology	8
Sumaira Qayoom	MD Pathology	Assistant Professor	Pathology	8
Sanjay Mishra	MD Pathology	Assistant Professor	Pathology	8
Shalini Bhalla	MD Pathology	Assistant Professor	Pathology	8

12.List of senior Visiting Fellows, adjunct faculty, emeritus professors

1. Dr Amit Dinda (ISRTP, AIIMS, Guest Speaker, 29.11.15
2. Dr Alok Dhawan (Director, IITR), Guest Speaker, 29.11.15
3. Dr SK Jain (President, Electron Microscopy Society of India), Guest Speaker, 29.11.15
4. Dr Pares Jain (Scientific Advisor, BD Biosciences, India) Guest Speaker, 12.08.16
5. Dr Neelam Varma, Prof & Head, Department of Hematology, PGIMER, Chandigarh, Guest Speaker, 20.8.16
6. Dr. Manoranjan Mahapatra, Professor, Department of Hematology, AIIMS, Guest Speaker, 20.8.16
7. Dr. Sonia Nityanand, Head, Dept of Hematology, SGPGIMS, Guest speaker, 20.8.16
8. Major Gen Dr Vibha Dutta, Commandant (Medical), Central Command Hospital, Lucknow, Guest Speaker, LPG Meet, 6.11.16
9. Dr PD Sarvant, NABL, Lead Accessor & Chief faculty for foundation for Quality, India, 4.11.16-7.11.16

13. Percentage of classes taken by temporary faculty – program-wise information **Not applicable**

14. Program-wise Student Teacher Ratio **UG: 12.5:1, PG: 1.4:1**

15. Number of academic support staff (technical) and administrative staff:

sanctioned, filled and actual **65 WORKING**

16. Research thrust areas as recognized by major funding agencies

Cancer, molecular expression and pathways of diseases

17. Number of faculty with ongoing projects from

a) National **9**

- i. "Evaluation of differential expression of CD200 in multiple myeloma and its correlation with clinico-pathological parameters and treatment response" funded by intramural faculty seed grant , KGMU (Dr Mili Jain), Budget sanctioned 1 lac
- ii. "Molecular subtyping of Diffuse Large B Cell Lymphoma (DLBCL) by immunohistochemistry, its prognostic significance and impact on survival" funded by intramural faculty seed grant , KGMU (Dr Geeta Yadav)), Budget sanctioned 1 lac
- iii. "Programmed cell death ligand 1 (PDL 1) expression in tumor infiltrating lymphocytes (TIL) in breast cancer in relation to clinic-pathological variables" funded by intramural faculty seed grant , KGMU (Dr Sumaira Qayoom)), Budget sanctioned 1 lac
- iv. "Study of angiogenesis and expression of FGFR in Urinary Bladder Cancer" funded by intramural faculty seed grant , KGMU (Dr Chanchal Rana)), Budget sanctioned 1 lac
- v. " Cancer stem cell (CSC) CD113, Ki67 and p16 markers in oral premalignant lesions and squamous cell carcinoma" funded by intramural faculty seed grant , KGMU (Dr Shalini Bhalla)), Budget sanctioned 1 lac
- vi. "Stem cell marker CD113 in gliomas" funded by intramural faculty seed grant , KGMU (Dr Shivanjali Raghuvanshi)), Budget sanctioned 1 lac
- vii. Studies of circulating miRNA 126&122 in patients with coronary artery diseases, implications of cholesterol and lipid dynamics & plaque angiogenesis, funded by DRDO, New Delhi (Dr Wahid Ali), Budget upto 26 lac
- viii. "CETP & SRBI Gene Polymorphism on lipid subtypes of LDL and dysfunctional HDL in patient with type II Diabetes Mellitus", Funded by UGC under Moulana Azad Fellowship, (PI- Dr. Wahid Ali), Budget upto 14 lac
- ix. " Putative markers of signal transduction pathways and epigeneticalteration associated with epithelial mesenchymal transition in endometrial intra epithelial neoplasia (EIN) and endometroid endometrial carcinoma" Funded by ICMR (Prof MadhuMati Goel) , Budget upto 34 lac

b) International funding agencies **None** and

c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Mentioned above

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration None

19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

- i. Putative markers of signal transduction pathways and epigenetic alteration associated with epithelial mesenchymal transition in endometrial intra epithelial neoplasia (EIN) and endometroid endometrial carcinoma" Funded by ICMR (Prof Madhu Mati Goel) , Budget upto 34 lac
- ii. Studies of circulating miRNA 126&122 in patients with coronary artery diseases, implications of cholesterol and lipid dynamics & plaque angiogenesis, funded by DRDO, New Delhi (Dr Wahid Ali), Budget upto 26 lac
- iii. "CETP & SRBI Gene Polymorphism on lipid subtypes of LDL and dysfunctional HDL in patient with type II Diabetes Mellitus", Funded by UGC under Moulana Azad Fellowship, (PI- Dr. Wahid Ali), Budget upto 14 lac

20. Research facility / center with

- state recognition
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies : Biochemical laboratory by POCT

22. Publications: Number of papers published in peer reviewed journals (national / international)

1. Jain M, Shukla A, Kumar A, Kushwaha R, Tripathi A K. Anemia in CD5 negative chronic lymphoproliferative disorder: importance of bone marrow examination. J Clin Diagn Res. 2017; 11(4): XL01
2. Pradhan A, Shukla A, Jain M, Mehrotra A, Sethi R. Combined thrombophilia in a young male presenting as life threatening pulmonary embolism. J Clin Diagn Res. 2017; 11(9): OD03-OD04.
3. Singh G, Kumar A, Jain M, Kushwaha R, Kumar A A, Singh DP. Granulocytic sarcoma of epidural mass with acute myeloid leukemia. Int J Case Rep Images. 2017; 8(4): 261-64.
4. Garg RK, Malhotra HS, Jain M, Kumar N, Lachuriya G, Mahajan L. Brain stem infarct as a rare complication of coagulase negative staphylococcus meningitis. Neurology India. 2017; 65(3): 621-3.

5. Jain M, Oberoi G, Kumar R, Kumar A. Erthyrovirus B 19 induced persistent bicytopenia in a healthy child. *Rev Bras Hematol Hemoter.* 2017; 39(3):278-280.
6. Jain M, Kushwaha R, Verma SP, Singh US, Tripathi AK, Goel MM, Kumar A. CD8 expression in B chronic lymphocytic leukemia: A case of immunophenotypic aberrancy. *Cytometry B Clin Cytom.* 2017. Doi: 10.1002/cyto.b.21535. [Epub ahead of print]
7. Jain M, Kumar A, Singh US, Kushwaha R, Singh AS, Dikshit M, Tripathi AK. Cellular and plasma nitrite levels in myeloid leukemia- a pathogenetic decrease. *Biol Chem.* 2017; 398(11):1259-1265. Doi: 10.1515/hsz-2017-0143.
8. Jain M, Mittal P, Shukla A, Kumar A. Osteopetrosis in twin infants mimicking leukemia. *Rev Bras Hematol Hemoter.* 2017; 39(4):372-374.
9. Jain M, Tripathi AK. ICUS/CCUS/CHIP: Basics & beyond. Expert review of Hematology. 2017; 10(10): 915-20. <https://doi.org/10.1080/17474086.2017.1371588>.
10. Jain M, Kumar A, Mishra S, Verma N, Goel MM. Circulating tumor cells in neuroblastoma. *Turk J Haematol.* 2017; 34: 369. doi: 10.4274/tjh.2017.0199.
11. Garg RK, Rizvi I, Malhotra HS, Mehta MM, Jain M, Goel MM, Uniyal R, Kumar N. A patient with multiple cranial nerve palsies and areflexic paraparesis. *Neurology.* Accepted for publication.ID#: NEUROLOGY/2018/873976
12. Kushwaha R, Kumar A, Mishra KL, Sankhwar PL, Singh R. Haemostatic Disorder in Women with Unexplained Menorrhagia: A Tertiary Care Centre Experience from Northern India. *J Clin Diagn Res.* 2017; 11(5): EC46-EC49.
13. Kumar M, Kushwaha R, Maurya M, Singh G, Kumari R. Knowledge, Awareness and Attitude regarding Biomedical Waste Management among Medical Students in a tertiary health Care centre: A Cross Sectional Study. *Indian Journal of Research* 2017; 6(4): 611-14.
14. Maurya MK, Maurya RP, Kushwaha R, Kumar M, Kumari M. Knowledge, awareness and practices regarding sharp injuries among health care workers of pathology lab in a tertiary care hospital. *Journal of Diagnostic Pathology and Oncology* 2017;2(2):20-5.
15. Shweta Katiyar, Madhu Kumar, Madhu Mati Goel, Ashutosh Kumar, Veerendra Verma a, H.P. Singh. Comparison of cytomorphological details in liquid based cytology and conventional cytology in fine needle aspirates of pleomorphic adenoma. *International Journal of Current Research* Vol. 10, Issue, 03, pp.66460-66462, March 2018. Index Copernicus value. Index Copernicus
16. Mayank Anand, Malti Kumari Maurya, Madhu Mati Goel, Madhu Kumar, Ajay Kumar Singh, Preeti Agarwal, Vishal Gupta, Annu Makker. CDX-2 Protein Expression in Premalignant and Malignant Lesions of Gallbladder. *Journal of Clinical and Diagnostic Research.* 2018;12:10-14. DOI: 10.7860/JCDR/2018/30934.11206 Index Copernicus
17. Kumar Madhu, Goel Madhu M, Kushwaha Ram A S and Garg Rajiv. Liquid Based Cytology versus Conventional Bronchial Wash and Bronchial brush Cytology for the diagnosis of Lung cancer. *International Journal of Current Advanced Research* 2018;7: 9680-9684. Impact Factor: SJIF: 5.995

18. Neeta Verma, Madhu Kumar, Mala Sagar, Suresh Babu, Atin Singhai, Nisha Singh, Sujata Dev, Vijay Kumar. Expression of estrogen receptor, progesterone receptor, and human epidermal growth factor receptor type 2/neu in surface epithelial ovarian tumors and its clinicohistopathological correlation. *Indian Journal of Health Sciences and Biomedical Research KLEU* 2018;11:19-24.
19. Kusha Gupta ,Malti Kumari Maurya,Raj Mehrotra,Madhu Mati Goel,Madhu Kumar Riddhi Jaiswal, Shalini Gupta. Utility of E-Cadherin as a Prognostic Marker in Oral and Cervical Squamous Cell Neoplastic Lesions. *Journal of Clinical and Diagnostic Research* 2018;12(1):10-13.
20. Madhu Kumar, Rashmi Kushwaha, Malti Kumari, Geeta Singh, .Reema Kumari. Knowledge, Awareness and Attitude regarding Biomedical Waste Management among Medical Students in a tertiary health Care centre: A Cross Sectional Study. *Paripex - Indian Journal of current Research* 2017;6:611-614.
21. Sonal Verma, Madhu Kumar, Malti Kumari, Raj Mehrotra, R A S Kushwaha , Madhu Mati Goel, Ashutosh Kumar, Surya Kant. An Immunohistochemical Study of Anaplastic Lymphoma Kinase and Epidermal Growth Factor Receptor Mutation in Non-Small Cell Lung Carcinoma. *Journal of Clinical and Diagnostic Research*. 2017; 11: 22-25. *Index Copernicus* 2016: Impact factor :132.37. Online : ISSN - 0973-709X . PUBMED
22. Madhu Kumar,S.N. Kureel.Cysticercosis presented with nodules diagnosed on fine-needle aspiration cytology . *Parasitologists United Journal* 2017; 9:106-108.
23. Madhu Kumar, Yatendra Parashar, Anju Bharti. Primary hydatid cyst in the deeper plane of the sternocleidomastoid muscle of the neck diagnosed on fine needle aspiration cytology: a case report. *Parasitologists United Journal* 2017, 9:109-111.
24. Malti Kumari Maurya, Rana Pratap Maurya, Rashmi Kushwaha, Madhu Kumar, Reema Kumari. Knowledge, awareness and practices regarding sharp injuries among health care workers of pathology lab in a tertiary care hospital. *Journal of Diagnostic Pathology and Oncology* 2017;2:20-25. *Index Copernicus*
25. Garima Singh, Preeti Agarwal, Madhu Mati Goel, Madhu Kumar and Durg Pratap Singh. Conventional vs. Liquid Based Cytology in Fine Needle Aspirates of Lung and Mediastinal Masses. *J Pulm Respir Med* 2017; 7:2.
26. Serum HE4 detects ovarian cancer recurrence earlier than CA125: Indian study. Naseem Akhtar, Shiv Rajan, Vijay Kumar, Sonali Sharma, Sumaira Qayoom, Sourabh Mukherjee, Wahid Ali, Arun Chaturvedi. *Journal of clinical and diagnostic research*. 2018 May, Vol-12(5):XC01-XC03
27. Blastic plasmacytoid dendritic cell neoplasm (BPDCN) presenting as leukemia without cutaneous lesion. Namrata Punit Awasthi, Sumaira Qayoom, Sunil Dabadghao. *Journal of cancer research and therapeutics*. 2017;13:1056-8.
28. Significant plasmacytosis in an early induction marrow of acute myeloid leukemia: Diagnostic and therapeutic implications. Namrata Punit Awasthi, Sumaira Qayoom, Ankita Jaiswal, Sunil Dabadghao. *April Journal of Cancer Research and Therapeutics* 2017. 13(2):2442

29. CD24 and Nanog expression in Stem Cells in Glioblastoma: Correlation with Response to Chemoradiation and Overall Survival. Priyanka Soni, Sumaira Qayoom, Nuzhat Husain, Praveen Kumar, Anil Chandra, Bal Krishan Ojha, Rakesh Kumar Gupta. *Asian Pac J Cancer Prev*, 18 (8), 2215-2219
30. A Preeti, G Sameer, S Kulranjan, AS Arun, R Preeti, Y Sunita, MG Madhu. Intra-Operative Frozen Sections: Experience at A Tertiary Care Centre. *Asian Pacific journal of cancer prevention: APJCP* 17 (12), 5057-5061
31. Maurya MK, Goel MM, Wakhlu A. Nodular lymphoid hyperplasia of lung masquerading as tuberculosis. *Journal of Diagnostic Pathology and Oncology*. 2017;2(3):69-71.
32. Singhai A, Babu S, Singh V, Varma N. Mature benign lipoblastoma: a rare case. *J MGIMS* 2017;22(1):54
33. Dwivedi S, Jaiswal R, Singh N, et al. Prospective Study on Comparison of Intraoperative Frozen Section and Cytological Techniques as Diagnostic Modalities of Ovarian Mass Lesions. *J Evolution Med Dent Sci* 2017;6(42): 3347-54, DOI: 10.14260/Jemds/2017/725
34. Singh M, Singh Ajay Kr, Shubham S, Maan P, Chauhan U. Malignant granular cell tumour presenting as a paravertebral mass in an adolescent male- a rare presentation of an uncommon tumour. *Journal of clinical and diagnostic Research*. 2017;11(2):ED08-09.

-
- * Monographs **Nil**
 - * Chapters in Books **Nil**
 - * Books edited **Nil**
 - * Books with ISBN with details of publishers **Nil**
 - * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)
 - * Citation Index – range / average
 - * SNIP
 - * SJR
 - * Impact Factor – range / average
 - * h-index

23. Details of patents and income generated **None**

24. Areas of consultancy and income generated **None**

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad **Prof. Ashutosh Kumar, Prof. Madhumati Goel, Prof. US Singh, Prof. Suresh Babu, Dr. Atin Singhai, Dr. Riddhi Jaiswal**
26. Faculty serving in
a) National committees b) International committees c) Editorial Boards d) any other (specify) **Prof. Ashutosh Kumar, Prof. Madhumati Goel, Prof. US Singh, Prof. Suresh Babu**
27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).
Active participation in the major State, National, International conferences and CMEs
Medical Education training, Evidence based training, ATCOM training
28. Student projects
• percentage of students doing projects in collaboration with other universities / industry / institute **None**
29. Awards / recognitions received at the national and international level by
• Faculty
• Doctoral / post doctoral fellows
• Students
30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.
• Hematology update and state level ISHBT quiz, 20.8.17
• Quarterly academic LPG meet, Nov, 2017
• UPPATHCON, Oct,2017
31. Code of ethics for research followed by the departments **As per University rules**

32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
	7.3%	75.6%	17%	None

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

35. Student progression

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil, DM / M Ch / DNB	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed <ul style="list-style-type: none"> Campus selection Other than campus recruitment 	
Entrepreneurs	

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	45%
from other universities within the State	35%
from universities from other States	20%
from universities outside the country	none

37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period **None**

38. Present details of departmental infrastructural facilities with regard to

a) Library **Yes**

b) Internet facilities for staff and students **Yes**

c) Total number of class rooms **4 in Department+2 in Kalam centre**

d) Class rooms with ICT facility and 'smart' class rooms at Kalam centre

e) Students' laboratories **1**

f) Research laboratories **None**

39. List of doctoral, post-doctoral students and Research Associates
- a) from the host institution/university
Dr Akanksha Agarwal Post MD Phd, year of enrollment 2016
 - b) from other institutions/universities
40. Number of post graduate students getting financial assistance from the university. **ALL**
41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology. **NONE**
42. Does the department obtain feedback from
- a. faculty on curriculum as well as teaching-learning-evaluation? **Yes**
If yes, how does the department utilize the feedback?
 - b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? **Yes**
 - c. alumni and employers on the programs offered and how does the department utilize the feedback? **None**
43. List the distinguished alumni of the department (maximum 10) **Prof . S M Natu, Prof. Raj Mehrotra, Prof. M Kar, Prof. K Agarwal, Prof. MRS Kushwaha, Prof. AN Srivastava, Prof. M Bagchi, Prof. Pramod Nath , Prof. P K Agarwal, Prof. AK Kapoor, Prof. MP Singh**
44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts. **CME and Guest lectures organized from time to time**
45. List the teaching methods adopted by the faculty for different programs including clinical teaching. **Lectures, Group discussions, Case based studies, Integrated teaching schedules with Seminars, Journal club discussions, Slide tests, Formative assessments**
46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored? **Regular formative assessments including MCQ, OSCE and lab leaving tests**
47. Highlight the participation of students and faculty in extension activities. **Active Involvement in Medical education programs, Evidence based learning and extra-curricular activities**
48. Give details of “beyond syllabus scholarly activities” of the department.
49. State whether the program/ department is accredited/ graded by other

agencies? If yes, give details.

The department was upgraded by Government of India

Cytology lab accredited by National agency

NABL Biochemical Lab

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Facilities for Immunohistochemistry, immunocytochemistry, flow cytometry for tumor typing.

Molecular analysis for tumors.

Diagnostic facility for bleeding and thrombotic disorders.

Digital scanner, Electron microscopy, High performance liquid chromatography, Liquid based cytology

Weakness: Shortage of permanent technicians,

Opportunities : Congenial, Motivating environment, approachable Administration, Well equipped modern laboratories

52. Future plans of the department. **Development of better diagnostic facilities, conduction of national, international conferences**

4. Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the institution

With seal:

Vice Chancellor

King George's Medical University, Uttar Pradesh
Lucknow

Place: Lucknow

Date: