

Evaluative Report of the Department

1. Name of the Department: **Department of Pediatrics**
2. Year of Establishment: **Year 1965**
3. Is the Department part of a School/Faculty of the University?
Institute of Medical Sciences, Banaras Hindu University
4. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :
UG (MBBS), PG (MD), Ph.D.
5. Interdisciplinary Programmes and departments involved:
Molecular and Human Genetics, Zoology, Botany, Psychology, Biostatistics, Microbiology, Biochemistry, Biophysics, Ayurveda, Home Science and allied departments of IMS.
6. Courses in collaboration with other universities, industries, foreign institutions, etc.
Nil
7. Details of programmes discontinued, if any, with reasons: **None**
8. Examination system: Annual/Semester/Trimester/ Choice Based Credit System:
UG: Semester based evaluation
PG: Three monthly evaluation
Ph.D. as per BHU ordinance
9. Participation of the Department in the courses offered by other departments:
 - **M.Sc. (Molecular and Human Genetics)**
 - **Diploma course (Ayurveda)**
 - **B. Sc. Nursing**
10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	01	4
Associate Professors	07	06	3
Asst. Professors	06	00	0

11. Faculty profile with name, qualification, designation, area and specialisation, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil/M.D. students guided for the last 4 years
Dr BK Das	MBBS, MD	Professor	Pediatrics	27 years	5
Dr SK Upadhyay	MA, PhD	Professor	Child Psychology	29 years	3
Dr OP Mishra	MBBS, MD	Professor	Pediatrics	22 years	5
Dr Ashok Kumar	MBBS, MD	Professor	Pediatrics	22 years	5 (M.D.) 1 (Ph.D.)
Dr Vineeta Gupta	MBBS, MD	Associate Professor	Pediatrics	09 years	4 (M.D.) 2 (Ph.D.)
Dr Rajniti Prasad	MBBS, MD	Associate Professor	Pediatrics	10 years	5
Dr Sriparna Basu	MBBS, MD	Associate Professor	Pediatrics	10 years	5

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

1. Dr Deepak Singhal, Hematologist, Adelaide, Australia
2. Dr Piyush Gupta, Editor in Chief, Indian Pediatrics, New Delhi

13. Percentage of classes taken by temporary faculty – programme-wise information

Nil

14. Programme-wise Student Teacher Ratio:

UG: 12 students per teacher per year

PG: 1.2 students per teacher per year

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Post	Sanctioned	Filled	Actual
Technical	9	7	7
Administrative Staff	1	1	1
Total	10	8	8

16. Research thrust areas recognized by funding agencies:

- Neonatal Hyperbilirubinemia
- Childhood malignancies
- Pediatric Aplastic anemia

17. Number of faculty with ongoing projects from (a) national (b) international funding agencies and (c) Total grants received. Give the names of the funding agencies and grants received project-wise.

Sl. No.	Project Title	Funding Agency	Amount (approx)
Completed			
1.	Mutational Analysis of Bilirubin Uridine Diphosphate Glucuronosyl Transferase Gene in Neonatal Hyperbilirubinemia	Department of Biotechnology	Rs. 12,00,000
Ongoing			
1.	Role of Immunological Responses in the Outcome of Sepsis in Low Birth Weight Infants	Department of Biotechnology	Rs. 17,00,000
2.	Capacity building for management of pediatric oncology patients	Jiv Daya Foundation, Texas, USA	Rs. 10,00,000
3.	Study of clinical, hematological & cytogenetic profile of children with aplastic anemia	Uttar Pradesh Council for Science & Technology	Rs. 5,00,000
4.	Applying genomic technology to health problems in India	MRC, UK	-

18. Inter-institutional collaborative projects and grants received

- a) All India collaboration : Nil
- b) International: Nil

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

Sl. No.	Project Title	Funding Agency	Amount (approx)
1.	Mutational Analysis of Bilirubin Uridine Diphosphate Glucuronosyl Transferase Gene in Neonatal Hyperbilirubinemia	Department of Biotechnology	Rs 12,00,000

20. Research Facility/centre with

- State recognition **Nil**
- National recognition **Nil**
- International recognition **Nil**

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

Nil

22. Publications:

- Number of papers published in peer reviewed journals (national / International)

International - 77

National - 36

- Monographs: **0**

- Chapters in Books

International - 1

National - 18

Edited Books - 5

- Books with ISBN with details of publishers

S.No	Title with page no.	Book title & Publisher	ISSN/ ISBN No.
1.	Hematology & Oncology	Textbook of Pediatrics Ane Books Pvt. Ltd.	978-81-8052-171-3
2.	Dyskeratosis congenita	Diseases of DNA Repair	978-1-4419-6447-2
3.	Poisoning in children		81-8061-798-X
4.	Mother and Child Care		81-8061-197-3
5.	Infectious Diseases and Immunization		81-7179-798-9

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)

- Citation Index – range / average : 13-160 / 73.25

- SNIP

- SJR

- Impact Factor – range / average : 0.5- 14.093 / 2

- H-index : 5.75

23. Details of patents and income generated:

Not applicable

24. Areas of consultancy and income generated: **Revolving Fund & Evening paid clinics**

25. Faculty selected nationally / internationally to visit other laboratories in India and abroad:

- **Prof. B.K.Das**
- **Prof. O P Mishra**
- **Prof. Ashok Kumar**
- **Dr. Vineeta Gupta**
- **Dr. Sriparna Basu**

26. Faculty serving in

a) National committees:

Assessors MCI for UG and PG classes: 4

b) International committees: **2**

c) Editorial Boards:

- **International Advisory Board Member, Journal of Tropical Pediatrics, Oxford University**
- **National Advisory Board, Journal of Neonatology**
- **National Advisory Board, Indian Pediatrics**

d) Any other (please Specify)

27. Faculty recharging strategies (UGC, ASC, Refreshers/Orientation programs, workshop, training programs and similar programs) : **Nil**

28. Student Projects

- Percentage of students who have done in-house projects including inter-departmental projects: **All (100%) MD students**
- Percentage of students doing projects in collaboration with other universities / industry / institute: **Nil**

29. Awards / recognitions received at the national and international level by

Faculty

International

- **ICMR International Fellowship for Senior Biomedical Scientists, Norway 2008**
- **India Giani Fund Scholarship of American Academy of Pediatrics, USA 2008**

- International Society of Pediatric Oncology travelling fellowship, Berlin 2008
- DAAD Fellowship, Germany 2008
- INSA Visiting Fellowship, Germany 2010
- Royal College of Pediatrics and Child Health Fellowship, UK 2010
- Royal College of Physicians Fellowship, Ireland, 2010
- International Network for Cancer Treatment and Research Fellowship, Brussels 2011
- Singapore Cooperation Programme Training award, Singapore 2011
- Royal College of Pediatrics and Child Health Visiting Fellowship, UK 2012
- Indo American Cancer Association Fellowship, USA 2012
- American Academy of Pediatrics & India Giani Fund Scholarship, USA, 2013

National

- Fellow of the National Academy of Medical Sciences (FAMS): One
- Fellowships of Indian Academy of Pediatrics (FIAP): Three
- NNF UP Chapter Gold Medal for best research paper: One
- Member National Academy of Medical Sciences (MNAMS): Four
- Fellowship of National Neonatology Forum (FNNF): One
- IAP Best Poster award: 2012
- NNF Best Poster Award: One

Doctoral / postdoctoral fellows: Travel grant of ISHTM : One

Students:

Postgraduates:

- Winner Divisional Round NNF Quiz 2009, 2010
- Winner Divisional Round NNF Quiz 2011
- Winner Zonal Round NNF Quiz 2011
- Winner Divisional Round IAP Quiz for 2012

Undergraduates:

- Winner National Round IAP Quiz 2008
 - Winner Divisional Round IAP Quiz 2009
30. Seminars / Conferences / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Organised International/national CME/Updates/Conferences:

- PALS 2008
 - IMNCI Training programme for medical officers of government of Uttar Pradesh: Funding UNICEF: 2010
 - Continuing Medical Education: 2010, 2011, 2012
 - Neonatal Resuscitation Program, 2013
31. Code of ethics for research followed by the departments –

Department follows the ICMR guidelines for human research.

32. Student profile program-wise: **Not applicable**

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph.D.	-	-	-	-	-

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
MD(Pediatrics)	50%	25%	25%	-
PhD	25%	50%	25%	-

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give Details category wise

CSIR NET	ICMR NET	GATE	UGC NET
One	-	-	One

35. Student progression

Student progression	Percentage against enrolled
UG to PG	100%
PG to M.Phil.	NA
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	All MD students who have passed out from this department are working either in government or private hospitals, or are self-employed
Entrepreneurs	Nil

36. Diversity of staff

Percentage of faculty who are graduates	
Of the same university	6 (75%)
From other universities within the State	Nil
From the universities from other states	2 (25%)
From the universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

None

38. Present details of departmental infrastructural facilities with regard to

- | | | |
|----|--|--------------------------|
| a) | Library : | 1 |
| b) | Internet facilities for staff and students : | Yes |
| c) | Total number of class rooms : | 4 |
| d) | Class rooms with ICT facility : | 1 |
| e) | Students' laboratories: | 1 (Size: 20 x 20 Sq.Ft) |
| f) | Research laboratories: | 1 (Size: 20 x 20 Sq. Ft) |

39. List of doctoral, post-doctoral students and Research Associates

a) *from the host institution / university*

Doctoral	-	Nil
Post doctoral	-	Nil
Research associate	-	Nil

b) *from other universities*

Doctoral	-	Four
Research Associates	-	One

40. Number of post graduate students getting financial assistance from the university:

None

41. Was any need assessment exercise undertaken before the development of new program (s)? If so, highlight the methodology. **Nil**

42. Does the department obtain feedback from:

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, Faculty members are regularly consulted on the content and relevance of UG and PG curriculum as well as the methods employed for teaching the students. After obtaining feedback from faculty appropriate changes are made in the teaching methodology and learning evaluation.

b) Students of staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Students are asked to give their feedback on teaching and learning methods and then changes are made accordingly. The topics for seminars, journal clubs, short talks are decided in consultation with students keeping in mind their needs and relevance.

- c) Alumni and employers on the programmes offered and how does the department utilize the feedback? **Nil**

43. List the distinguished alumni of the department (maximum 10)

International

- Dr Nirupama Laroia, USA
- Dr Shobha Cherian, UK
- Dr Ajay Sinha, UK
- Dr Mithilesh Lal, UK
- Dr. Deepak Singhal, Australia

National

- Prof Piyush Gupta
- Prof Arvind Salli
- Prof Pankaj Abrol
- Prof Vikram Dutta
- Dr A K Jaiswal

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Students often get opportunity to listen to and interact with external faculty through lectures, workshops, and seminars at the departmental and Institute level.

45. List the teaching methods adopted by the faculty for different programmes.

Didactic lectures, Case discussions, Bedside teaching, Grand rounds, Demonstration, Brain-storming, Group discussions and Tutorials

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The students are required to fill up log books which are checked by the faculty for its completeness. Students are periodically assessed after completion of lecture series by theory examination consisting of short answer-questions and MCQs. The clinical skills of students are evaluated by faculty members during daily bedside teaching, and again at the end of their clinical rotation. Students lacking in certain clinical skills are given more attention during daily bedside teaching.

Postgraduate students are assessed for their knowledge and clinical skills on daily ward rounds. Regular sessional examinations are held to evaluate their theoretical knowledge. Students are also given feedback on their performance ward rounds and other presentations such as seminars, case discussions.

47. Highlight the participation of students and faculty in extension activities.

Department is participating in providing health care services to children at Rajiv Gandhi South Campus of BHU at Barkachha, Mirzapur.

48. Give details of "beyond syllabus scholarly activities" of the department.

Faculty and students are encouraged to participate in various CME programs, workshops, conferences etc to keep themselves updated on current controversies and areas of knowledge. The faculty members of the department are regularly participating in updating the knowledge and clinical skills of the paediatricians of Varanasi and nearby districts through CMEs and workshops organized by the Varanasi branch of Indian Academy of Pediatrics. They are also contributing to dissemination of health information to general public on various issues affecting children through vernacular newspapers, radio talks and local TV channels.

49. State whether the programme / department is accredited / graded by other agencies? If yes, give details.

The department is accredited as a part of the university accreditation system.

The degree of MD (Pediatrics) awarded by the department is recognised by Medical Council of India (MCI).

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

Department of Pediatrics has been pioneer in developing growth charts for assessing physical and sexual growth of Indian children. These charts are extensively used in India. The department has also contributed significantly in areas like maternal-fetal nutrition, oxidative stress, infectious diseases, hematological disorders, renal disorders, childhood epilepsies and genetics of neonatal hyperbilirubinemia.

51. Detail any five strengths, weaknesses, opportunities and challenges (SWOC) of the department.

Strength:

- 1. Dedicated and committed faculty**
- 2. Research publications in journals of high impact factor**
- 3. Excellent UG and PG teaching programmes**
- 4. Opportunities for interdisciplinary collaboration within the university system**
- 5. Academic freedom**

Weaknesses:

1. Lack of adequate funding for research
2. No timely promotions and unfilled vacant posts
3. Insufficient funding for attending international conferences
4. Inadequate space for patient care
5. Very few posts of senior residents

Opportunities:

1. Better scope of funding for research
2. More facilities for interdisciplinary research
3. Potential for international collaboration
4. Research and generation of new knowledge being recognized as an important pursuit of teaching profession
5. More academia-industry interaction

Challenges:

- a. Attracting and retaining good faculty
- b. Attaining excellence in research
- c. Carrying out research with limited resources
- d. Strengthening of patient care services and meeting people's expectations
- e. Improving work culture

52. Future plans of the department:

The Department is very keen to develop a state-of-art 10 bedded Pediatric Intensive Care Unit (PICU) to improve the quality of care. Strengthening the existing specialities which include Neonatal Intensive Care Unit (NICU), Hematology-Oncology, Nephrology, Neurology are other priorities of the department.