Odisha University of Health Sciences Dhanwantari Bhavan, Bhubaneswar, Odisha

LOG BOOK For POST GRADUATE STUDENTS

| Department of: PATHOL | OGY | |
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| Name of the Institution: | | |

Prepared by: Log book Committee (Broad Specialties) 2023 OUHS, Bhubaneswar

ODISHA UNIVERSITY OF HEALTH SCIENCES, DHANWANTARI BHAVAN, BHUBANESWAR.

LOG BOOK for POST GRADUATE STUDENTS

Department of: PATHOLOGY

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CERTIFICATE

| Th | nis is to cer | tify th | at, this | logbook contai | ns bor | nafide work | of | |
|--------------|---------------|---------|----------|----------------|--------|-------------|--------|-------|
| Dr | | | | | | , | a I | Post- |
| Graduate | student | of | the | Department | of | PATHOLO | OGY | of |
| | | | | | | , Odisha | for | the |
| session | | | _· | | | | | |
| Date: | | | | | | | | |
| Post Graduat | e Guide | | | | | Head of the | Depart | ment |

Dean & Principal

GENERAL INSTRUCTIONS:

This log book is intended to be a record of all the activities of Postgraduate students, as they perform and participate in the course, including training.

- 1. It shall solely be the responsibility of the student to ensure that, the desired entries are made in day-to-day basis and relevant documents if any are kept.
- 2. It shall be the responsibility of the HOD to ensure that, all students maintain their log books in an orderly manner.
- 3. Each student shall enter his/her leave record in the concerned section immediately after returning from leave.
- 4. The learners feedback form should be filled up before submitting the log book for the University Examination. It is expected that, students should give their feedback with all seriousness and help the University in improving and strengthening the Postgraduate education.
- 5. Submission of Logbook: The up-to-date log book is a pre-requisite for fill up of forms for the University Examination and hence the completed Logbook shall be submitted to the department when the same is asked for.
- 6. INSTRUCTIONS FOR FILLING THE LOG BOOK:

| would | Note: All assessments be in Likert's5- ale/score: |
|-------|---|
| Score | Interpretation |
| 0 | Poor |
| 1 | Below average |
| 2 | Average |
| 3 | Good |
| 4 | Very good |

- a. All entries should be properly entered and duly signed from the Supervisor / Unit In charges / Guide / HOD, as required.
- b. Under Instructions from the Head of Department, suitable corrections can be incorporated.
- c. Research participation pertaining to Conferences, Poster / Oral presentation and publication shall be entered directly in a Consolidated form.
- d. At the end of training, it's mandatory to fill up the feedback form and submit it to Postgraduate Office.
- e. It is an integral part of practical evaluation in the University examination.
- f. After the practical examination it shall be returned back to the student.
- g. There would be periodic evaluation regarding maintenance of log book by Postgraduate education office, and in case of any deficiency, the student would be responsible and suitable action may be taken against them for the same.
- h. Additional pages [if required] can be added.

PERSONAL PROFILE OF THE STUDENT:

| Name: Address: E-mail ID: Phone No.: DOB (dd/mm/yy): Blood group: Vaccination status: | | | | | | e your PP size hotograph |
|---|-----------------------|----------|----------|----------|-------|-----------------------------|
| Registration Number: | Name of the Medical C | Council: | | | Valid | d up to: |
| OUHS Registration Notes and Augustification Output Details | College | | Un | iversity | | Month & Year of completion |
| MBBS | | | | | | completion |
| Experience before join Designation | ing: Department | Ins | titution | Fro |)m | То |
| | | | | | | |

Date: Signature of the PG student

COURSE DETAILS:

| Degree / Diploma | |
|------------------|--------------------|
| Date of Joining | Date of completion |

Details of Postings [as per Curriculum by NMC]:

| Unit / Specialty / Section | Year of PGT | From | To | Duration |
|----------------------------|-------------|------|----|----------|
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Participation in Research Methodology training:

| Name of the Institution | From | То | Signature of the Guide / HOD |
|-------------------------|------|----|---------------------------------|
| | | | |

Participation in BCBR Course:

| Name of institute | the | Date of registration | Date the examination | | Signature the HOD | of |
|-------------------|-----|----------------------|----------------------|--|----------------------|----|
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Participation in BCME training:

| Name of the Institution | From | To | Signature of the HOD |
|-------------------------|------|----|----------------------|
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Participation in BCLS / ACLS training:

| Name of the Institution | From | To | Signature of the HOD |
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Leave record:

| Sl. No. | From | То | Reason: | Signature of the Unit Head |
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| Total No. of Leaves | | | | |

Signature & Seal of the Head of Department

| | DETAILS OF PARTICIPATION IN ACADEMIC PROGRAMS: | | | | | | | | | | | |
|------------|--|---------------------------------|--|--------------|--|------------------------|--|--|--|--|--|--|
| SI. No. | Date | Name of the Academic Program | International / National / State / Institutional Event | Organized by | Nature of participation [Delegate / Presentation if any] | Initials of the HOD | | | | | | |
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| | PUBLICATIONs |
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| Title: | |
| Authors: | |
| Name of the journal: | |
| Indexed in [NMC approved agency only]: | |
| Status of publication: | |
| Citation if published: | |
| Title: | |
| Authors: | |
| Name of the journal: | |
| Indexed in [NMC approved agency only]: | |
| Status of publication: | |
| Citation if published: | |
| Title: | |
| Authors: | |
| Name of the journal: | |
| Indexed in [NMC approved agency only]: | |
| Status of publication: | |
| Citation if published: | |
| | |

Internal Assessment Results:

| Year | | Theory [100] | Practical/Clinical/ Oral [100] | Total out of 200 [%] |
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| | III | | | |
| 2^{ND} | I | | | |
| | II | | | |
| | III | | | |
| 3 RD | I | | | |
| | Prelims | | | |

Date:

DETAILS OF THE DRP SCHEDULE [AS PER CURRICULUM BY NMC]:

| Name of the Institution | Year of PGT | From | То | Duration |
|-------------------------|-------------|------|----|----------|
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| Sl. No. | Day / Date | Place work | of | Nature work | of | Activity learn [Should include: 1. Patient care / Diagnostic services as per the subject. 2. Health care Management activities both HR & Logistics, Communication skill. 3. Team work | Level of participation [Observation / Performs under observation / Performs independently] | Signature of the DRPC |
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CERTIFICATE OF COMPLETION OF DISTRICT RESIDENCY PROGRAM

| It is certified that D | r | | | | | | | has |
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| satisfactorily completed | d the | District | Reside | ncy progra | ım w.e.f. | | | _ to |
| | Du | uring | his/her | District | Residency | Program | n training | at |
| : | | his | / her | performa | nce has | been rej | ported to | be |
| Department: | | | | | | | | |
| Date: Place: | | | | | | | | |
| Signature of Guide / Mo | entor | | | | Signatu | re of Head | of Departm | ient |
| Signature of the Distric | t Resider | ncy Pro | gram Co | oordinator | | | | |
| Signature of the Medica | al Superi | ntende | nt | | | | | |
| Signature of the CDM 1 | РНО | | | | | | | |

STRUCTURED TRAINING PROGRAM:

Teaching learning methods:

- 1. Lectures: at least 10 per year.
- 2. Journal club: once in 1-2 weeks.
- 3. Student Seminar [Topic]: once in 1-2 weeks.
- 4. Laboratory work / Interactive slide & gross seminar: once in 1-2 weeks.
- 5. Interdepartmental colloquium [Clinical combined rounds CCR, Clinico-pathologic correlation conferences CPC, Autopsy conferences]: once monthly.
- 6. Student symposium: once quarterly.
- 7. Rotational clinical / community / institutional postings:

| Sl. | Section / Subject | Duration in months |
|-----|---|---------------------------|
| No. | | |
| 1 | Surgical Pathology, Autopsy, Immunohistochemistry | 11 - 16 |
| 2 | Hematology, Laboratory Medicine, and Blood bank | 8 - 10 |
| 3 | Cytopathology | 6 – 9 |
| 4 | Basic Sciences, Immunopathology, Cytogenetics, | 2 - 6 |
| | Electron microscopy, Molecular Biology etc. and | |
| | Research Techniques including Thesis | |
| 5 | Total | 36 |

8. UG Teaching:

| | | DENTS SEMINAR PRESENTATION: nation of Seminar Presentation | | | | |
|------------|--------------|--|-----------------------------|-------------------|-----------------------|------------------------------|
| SI. No. | Points t | o be considered | | | | |
| 1 | Whether | r other relevant publications consulted | | | | |
| 2 | | r cross references have been consulted | | | | |
| 3 | Comple | teness of preparation | | | | |
| 1 | Clarity | of Presentation | | | | |
| 5 | Underst | anding of subject | | | | |
| 5 | Ability | to answer questions | | | | |
| Corollary | y Grading in | all checklists: Poor-0, Satisfactory-1, Average-2, G | ood-3, Very Good | 1-4. | | |
| SI. No. | Date | Seminar Topic | Presented / Participated | Average Grade* | Name of the Moderator | Initials of the Moderator |
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| | | | RNAL REVIEW PRESENTATION: | | | | | |
|---------------------------------|---|--|--|--------------------------|-------------------|-----------------------|------------------------------|--|
| | | | nation of Journal Review Presentation | | | | | |
| SI. No. Points to be considered | | | | | | | | |
| 1 | | Article chosen is relevant and appropriate | | | | | | |
| 2 | | | of understanding of scope & objectives of the paper | | | | | |
| 3 | | Whethe | er understood the Material, Methods, Observation ar | nd statistical ana | lysis | | | |
| 4 | | Whethe | er cross references have been consulted | | | | | |
| 5 | | Ability | to respond to questions on the paper / subject | | | | | |
| 6 | | Ability | to analyse the paper and co-relate with the existing | knowledge | | | | |
| 7 | | | to defend the paper | | | | | |
| 8 | | | of presentation | | | | | |
| | | | all checklists: Poor-0, Satisfactory-1, Average-2, G | ood-3. Very Go | od-4. | | | |
| SI. No. | | ate | Journal Topic | Presented / Participated | Average Grade* | Name of the Moderator | Initials of the Moderator | |
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| | | ORATORY WORK / INTERACTIVE SLI | | AR: | | | | |
|------------|----------------|--|-----------------------------|-------------------|-----------------------|------------------------------|--|--|
| SI. No. | | uation of Laboratory work / Interactive slice to be considered | ie & gross seminar | | | | | |
| 1 | | Clarity of Presentation | | | | | | |
| 2 | | teness of history | | | | | | |
| 3 | | to arrive at a differential diagnosis & diagnosis | | | | | | |
| 4 | Ability | to defend the diagnosis | | | | | | |
| 5 | Ability | to answer questions | | | | | | |
| 6 | Underst | anding of subject | | | | | | |
| Coroll | ary Grading ir | all checklists: Poor-0, Satisfactory-1, Averag | e-2, Good-3, Very Goo | d-4. | | | | |
| SI. No. | Date | Торіс | Presented / Participated | Average Grade* | Name of the Moderator | Initials of the Moderator | | |
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| Evalua | ation of STU | DENTS SYMPOSIUM: | | | | |
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| | | uation of Students symposium | | | | |
| SI. No. | | to be considered | | | | |
| 1 | Whethe | er other relevant publications consulted | | | | |
| 2 | | er cross references have been consulted | | | | |
| 3 | | eteness of preparation | | | | |
| 4 | | of Presentation | | | | |
| 5 | | tanding of subject | | | | |
| 6 | | to answer questions | | | | |
| | ary Grading in | all checklists: Poor-0, Satisfactory-1, Average-2, C | | 1 | | |
| SI. No. | Date | Торіс | Presented / Participated | Average Grade* | Name of the Moderator | Initials of the Moderator |
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| Guidelin | es for evalua | tion: | | | | | | | | |
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| SI. No. | Points to | Points to be considered | | | | | | | | |
| 1 | | Completeness of history | | | | | | | | |
| 2 | Clarity of | presentation | | | | | | | | |
| 3 | Logical or | | | | | | | | | |
| 4 | | of general physical examination | | | | | | | | |
| 5 | Diagnosis | | | | | | | | | |
| 6 | | defend diagnosis | | | | | | | | |
| 7 | | justify differential diagnosis | | | | | | | | |
| 8 | | plan management of the case | | | | | | | | |
| Corollary | Grading in a | ll checklists: Poor-0, Satisfactory-1, Average-2, Goo | d-3, Very Good-4. | | | | | | | |
| SI. No. | Date | Case History | Diagnosis | Presentation / Participation | Initial of the Guide / HOD | | | | | |
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| Evaluation | Evaluation of UG Teaching Skills: | | | | | | |
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| Guidelin | Guidelines for evaluation of UG Teaching skills: | | | | | | |
| SI. No. | Points to be considered | | | | | | |
| 1 | Communication of the purpose of the talk | | | | | | |
| 2 | Evokes the interest of audience in the subject | | | | | | |
| 3 | Introduction & Sequence of ideas | | | | | | |
| 4 | Speaking style [enjoyable / monotonous etc., specify] | | | | | | |
| 5 | Attempts audience participation | | | | | | |
| 6 | Answer the questions asked by the audience | | | | | | |
| 7 | Summary of the main points at the end | | | | | | |
| 8 | Rapport of speaker with his audience | | | | | | |
| 9 | Effectiveness of the talk | | | | | | |
| 10 | Use of AV aids appropriately | | | | | | |
| C 11 | | | | | | | |

Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.

| SI. No. | Date | Topic of teaching | Class / Practical / Clincs / Demos | Average Grade* | Name of the Supervising faculty | Initials of Guide/ Faculty |
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THESIS

| (To be submitted | for registration | of the | Thesis | topic | within | SIX | months | from | the c | late | of joining | the the |
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| course.) | | | | | | | | | | | | |
| Title of the Topic: | | | | | | | | | | | | |
| _ | | | | | | | | | | | | |
| Name of the Guid | e: | | | | | | | | | | | |

Name of the Co-guide(s) if any:

| Guideli | nes for e | valuation | of Thesis [Synopsis] | |
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| SI. No. | | to be consid | · · · · · · | |
| 1 | Interest | shown in | selecting a topic | |
| 2 | Approp | riate revie | w of literature | |
| 3 | Discuss | sion with g | uide and other faculty | |
| 4 | Quality | of protoco | 01 | |
| 5 | Prepara | tion of pro | forma | |
| Corolla | ry Gradin | g in all che | ecklists: Poor-0, Satisfactory-1, Average-2 | 2, Good-3, Very Good-4. |
| | - | | Evaluation of Thesis [Synopsis]: | - |
| SI. No. | Date | Average Grade* | Name of the Faculty & Designation | Initials of the Faculty |
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Signature of the Candidate: Signature of the Guide Signature of the HoD:

| (7 | Γo be filled b | efore submitting the dissertation to the University | & retained in this book) |
|-----------------------|---------------------|---|--------------------------|
| Name of | the Topic: | | |
| Name of | the Guide(s) | : | |
| Date of F | Registration o | of Thesis Topic: | |
| Date of a | pproval of th | e Thesis: | |
| Date of S | Submission o | f Thesis: | |
| | | PERIODIC EVALUATION OF THESIS W | ORK |
| Guidelin | es for period | lic evaluation of Thesis | |
| SI. No. | Points to be | | |
| 1 | Periodic cor | nsultation with guide / co-guide | |
| 2 | Regular coll | ection of case material | |
| 3 | Discussion | with guide / co-guide | |
| 4 | Department | al presentation of progress of work | |
| 5 | Assessment | of final output | |
| 6 | Others | | |
| Corollary | Grading in | all checklists: Poor-0, Satisfactory-1, Average-2, | Good-3, Very Good-4. |
| - | | Evaluation of Thesis: | - |
| Date of the review | e Average Grade* | Name of the members of the review committee | Initials of the Guide |
| 12 th mont | h | | |
| 18 th mont | h | | |
| 24 th mont | h | | |
| 30 th mont | h | | |
| Signatur | re of the Can | didate: Signature of the Guide | Signature of the HoD: |

COMPETENCIES TO BE LEARNT:

| Sr. N | o. Competency | Perform under supervision/perfor m Independently/Observation only |
|-------|---|---|
| I. | HISTOPATHOLOGY (SURGICAL PATHOLOGY) | |
| 1. | Given the clinical and operative data, identify and systematically and accurately describe the chief gross anatomic alterations in the surgically removed specimens and be able to correctly diagnose common lesions received on an average day from the surgical service of an average teaching hospital | Independently |
| 2. | Perform a systematic gross examination of the tissues including the taking of appropriate tissue sections and in special cases as in intestinal mucosal biopsies, muscle biopsies and nerve biopsies, demonstrate the orientation of tissues in paraffin blocks. | Independently |
| 3 | Identify and systematically and accurately describe the chief histomorphological alterations in the tissue received in the surgical pathology service. He/she should also correctly interpret and correlate with clinical data to diagnose routine surgical material received on an average day. | Independently |
| 4. | Identify common problems in histopathology processing techniques (poor fixation, delayed fixation, poor staining, etc.,) including automated tissue processing machine troubleshooting and rectify common problems | Independently |
| 5. | Operate and maintain common equipment in the histopathology laboratory such as microtome, water bath, cryostat, tissue processor, auto Stainer, etc. | Perform under supervision |
| 6. | Process a tissue, make a paraffin block and cut sections of good quality on a rotary microtome | Perform under supervision |
| 7. | Stain paraffin sections with hematoxylin and eosin stain and common special stains needed for diagnosis | Independently |
| 8. | Cut a frozen section, stain and interpret the slide in correlation with the clinical data provided | Independently |
| 9. | Standardize and validate new antibodies for immunohistochemistry with understanding of controls, clones, and dilutions | Independently |
| 10. | Perform immunohistochemistry on paraffin sections using manual method | Independently |
| 11. | Identify common problems in immunohistochemistry procedure (artifacts, inadequate retrieval, section floating, IHC failure, etc.,) and rectify such problems | Independently |
| 12. | Decide on the appropriate immunohistochemical panels for diagnosis, prognosis and predictive purposes in common disease conditions based on standard recommendations and interpret their results | Independently |
| 13. | Write histopathology reports, including synoptic reports, wherever needed, following protocols and international standards. The reports should be succinct and lucid, with clinical notes and advice, as necessary. | Independently |
| II | CYTOPATHOLOGY | |

| 1. | Perform FNAC of superficial lumps and make good quality smears including collection of material for cell block preparation and decide on the type of fixative and stain in a given case. | Independently |
|-----|---|----------------------------|
| 2. | Prepare and stain good quality smears for cytopathological examination | Independently |
| 3. | Provide appropriate guidance to colleagues performing procedure such as a biopsy or an imaging guided biopsy including on-site microscopic assessment of specimen adequacy. | Independently |
| 4. | Decide on the technique of collection, preservation, transport and concentration of various exfoliative cytology specimens (such as filters, centrifuge, liquid-based cytology, cytospin, etc.) | Independently |
| 5. | Perform on-site adequacy assessment in image guided sampling procedures and decide on sample triage for routine diagnosis (type of preparation, stain, etc.) and ancillary tests including microbiological and molecular tests | Independently |
| 6. | Diagnose common cases received in a routine cytopathology laboratory and categorize them into negative, inconclusive and positive, using the correct technique of screening and dotting the slides for suspicious cells, correctly identify the type of tumor, if present, and the presence of organisms, fungi and parasites, if present | Independently |
| 7. | Perform preparations (cytospin smears, liquid-based cytology, cell blocks, etc.) of common cytological samples using equipment such as centrifuge, cytocentrifuge and liquid based cytology apparatus | Observation only |
| III | HEMATOLOGY | |
| 1. | Perform venipuncture for peripheral blood collection and decide on appropriate collection tubes, storage, and anticoagulant based on indication | Independently |
| 2. | Prepare good quality peripheral blood smears, stain and report peripheral blood counts and other findings including reticulocyte and platelet counts on cell counter and manually | Independently |
| 3. | Perform bone marrow aspirates and biopsy, prepare good quality smears and imprints | Perform under supervision |
| 4. | Perform bone marrow aspirate staining including stain for iron | Independently |
| 5. | Perform cytochemical characterization of leukemia with special stains on bone marrow aspirates | Performs under observation |
| 6. | Perform and interpret coagulation profile including PT, APTT and FDP | Independently |
| 7. | Perform and interpret sickling test and osmotic fragility test | Independently |
| 8. | Describe accurately the morphologic findings in the peripheral and bone marrow smears, identifying and quantitating the morphologic abnormalities in disease states and arriving at a correct diagnosis in at least common cases referred to the Hematology clinic, given the relevant clinical data | Independently |
| 9. | Given the clinical data, interpret the results of i. Red cell indices ii. Plasma hemoglobin iii. Hemosiderin in urine | Independently |

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| | iv. Hemolytic anemia profile including HPLC, Hb | |
| | electrophoresis etc. | |
| | v. Hemoglobin and serum protein electrophoresis | |
| | vi. Clotting time and other point of care tests for bleeding vii. G6PD enzyme estimation | |
| | vii. G6PD enzyme estimation viii. Platelet function tests including platelet aggregation and | |
| | adhesion and PF3 release | |
| | ix. Russell's viper venom time (RVVT) | |
| | x. Coagulation Factor assays | |
| | xi. Serum Fibrinogen | |
| | xii. Screening for coagulation factor inhibitor, Bethesda Assay, | |
| | xiii. Fibrin Degradation Products (FDP), D-Dimers | |
| | xiv. Monitoring of anti-coagulant therapy | |
| | xv. Thrombophilia profile (Lupus anticoagulant (LAC), | |
| | Anticardiolipin Antibody (ACA), Activated Protein C | |
| | Resistance (APCR), Protein C (Pr C), Protein S (Pr S) and | |
| | Antithrombin III (AT III)) | |
| | xvi. Serum ferritin, Serum iron and total iron binding capacity | |
| 10. | Interpret flow cytometry findings in the immunophenotyping of | Independently |
| | leukemia, CD34 enumeration, CD3/CD19 enumeration, PNH work | |
| | up, etc. | |
| 11. | Interpret results of cytogenetics and molecular diagnostics in the | Independently |
| | work up of hematological diseases | |
| 12. | Prepare samples as appropriate for the indication, and operate | Observation only |
| | equipment such as automated cell counter, flow cytometry, | |
| | coagulometers, HPLC and electrophoresis apparatus | |
| IV | LABORATORY MEDICINE | |
| 1. | Plan a strategy of laboratory investigation of a given case, given | Independently |
| | the relevant clinical history and physical findings in a logical | |
| | sequence, with a rational explanation of each step; be able to | |
| | correctly interpret the laboratory data of such studies, and discuss | |
| 2 | their significance with a view to arrive at a diagnosis. | T., 1., 1.,41 |
| 2. | Perform urine analysis including physical, chemical and | Independently |
| | microscopic, examination of the sediment as well as by Dipstick methods. | |
| 2 | | Indonandantly |
| 3. | Perform macroscopic and microscopic examination of feces and identify the ova and cysts of common parasites. | Independently |
| 4. | Perform a complete examination: physical, chemical and cell | Independently |
| 4. | content of Cerebrospinal Fluid (C.S.F), pleural and peritoneal fluid | macpendentity |
| 5. | Perform semen analysis and interpret results in the context of | Independently |
| 5. | clinical and hormone findings | macpondentry |
| 6. | Perform quantitative estimation of blood/serum by automated | Independently |
| " | techniques for common biochemical tests | |
| 7. | Prepare standard solutions and reagents relevant to common | Independently |
| | biochemical tests including the preparation of normal solution, | <i></i> |
| | molar solution and buffers | |
| 8. | Interpret and report common laboratory biochemical tests (LFT, | Independently |
| | KFT, endocrine function tests) with understanding of clinical | |

| | implications | |
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| 9. | Operate, maintain and troubleshoot common equipment used such as photoelectric colorimeter, Spectrophotometer, pH meter, Centrifuge, Electrophoresis apparatus, ELISA Reader, PCR, chemiluminescence, etc. | Perform under supervision |
| V | TRANSFUSION MEDICINE | |
| 1. | Perform selection and bleeding of donors, ABO & Rh grouping and cross match, antibody screening and titer, selection of blood for exchange transfusion | Independently |
| 2. | Resolve ABO grouping problems and outline measures for investigation of transfusion medicine | Independently |
| 3. | Perform and interpret anti-globulin test in antenatal and neonatal work up | Independently |
| 4. | Prepare blood components such as cryoprecipitates, platelet concentrates, fresh frozen plasma, single donor plasma, red blood cell concentrates, etc. and test blood for presence of pathogens including HBV, HCV, HIV, VDRL, Malaria, etc. | Observation only |
| VI | AUTOPSY | |
| 1. | Perform an autopsy, dissect various organ complexes, and display the gross findings (Note: An improvised autopsy may also be arranged in places where full autopsy is not possible. Relevant organs from wet specimens in the museum with appropriate clinical history may be arranged for a detailed description and diagnosis. At least ten such improvised autopsies may be discussed by each candidate during the entire duration of the course) | Independently (see Note) |
| 2. | Provide Provisional and Final Anatomic Diagnosis report, major findings correctly and systematically at autopsy, and the Autopsy Protocol as per prescribed instructions. | Independently |
| VII | MOLECULAR BIOLOGY | |
| 1. | Interpret results of Polymerase Chain Reaction (PCR), real time PCR, Sanger Sequencing in a given clinical context. | Independently |
| 2. | Interpret results of in-situ hybridization (fluorescent and chromogenic) in a given clinical context | Independently |
| 3. | Prepare sample by appropriate methods and perform Polymerase Chain Reaction (PCR), real time PCR, Sanger Sequencing, and in- situ hybridization including troubleshooting | Observation only |
| VIII | IMMUNOPATHOLOGY | |
| 1. | Interpret direct / indirect immunofluorescence result in the context of common diseases of the skin, medical renal diseases and autoimmune diseases | Independently |
| 2. | Prepare sample by appropriate methods and perform indirect immunofluorescence on a frozen section from skin/ renal biopsy | Perform under supervision |
| IX | ELECTRON MICROSCOPY | |
| 1. | Interpret transmission electron microscopy results in common nonneoplastic and neoplastic diseases | Independently |
| 2. | Prepare specimen by appropriate methods and process tissue for electron microscopy, interpret semi-thin sections and view ultrathin sections under electron microscope | Observation only |

| X. | DIGITAL PATHOLOGY | |
|------|---|------------------|
| 1. | Navigate and annotate whole slide scanned images | Independently |
| 2. | Select and scan slides for digitalization and perform basic image | Observation only |
| | analysis functions such as length measurements, enumeration, etc. | |
| XI. | TEACHING | |
| 1. | Demonstrate different methods of teaching-learning and | Independently |
| | assessments | |
| 2. | Engage and teach undergraduates and paramedical staff in the form | Independently |
| | of small group teaching and demonstrations | |
| 3. | Engage in peer teaching in the form of presenting seminars and | Independently |
| | journal clubs and be able to use different modes of teaching | |
| | including | |
| | PowerPoint projections and charts | |
| XII. | RESEARCH | |
| 1. | Write the thesis (and/or a scientific paper) in accordance with the | Independently |
| | prescribed instructions, as expected of international standards | |

| Sl. | Competency addressed | Nature of | Lev | el of comp achieved | Signature of the | | | | |
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| No. | | Activity | 0 | PS | PI | Faculty | | | |
| | O – Observed, PUS – Performed under supervision, PI – Performed independently | | | | | | | | |
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FEEDBACK BY THE STUDENT

(To be filled up at the time of filling up of forms for University Examination. The filled up form is to be sent in a sealed envelope addressed to the Vice-Chancellor, OUHS, Bhubaneswar. It will be opened only after the student has passed.)

| Name of Student: | |
|--|--|
| Department: Period of study: From to | |
| Teriod of study. Troni to | |
| Due date of examination: | |
| Date of submission of Thesis/Topic: | |
| Name of Guide: | |
| Name of H.O.D.: | |
| i. Do you think that, your goal of pursuing post-graduate educa | ation in the subject is achieved: Yes/No |
| ii. Do you think that, you have been trained adequately by the d | • |
| a. Professional experience | Yes/No |
| b. Academic teaching | Yes/No |
| c. Recent advances | Yes/No |
| d. Exposure to specialist from outside the institution | Yes/No |
| e. Interaction with the patients | Yes/No |
| f. Interaction with the colleagues | Yes/No |
| g. Interaction with seniors | Yes/No |
| h. Thesis/Research | Yes/No |
| i. Article preparation | Yes/No |
| j. Workshop | Yes/No |
| k. Conferences | Yes/No |
| 1. CME | Yes/No |
| iii. Do you think that, you have been trained as a fairly competer | nt consultant: Yes/No |

- iii
- Were you harassed by your guide during the training period: Yes/No, if yes Name &Type: iv.
- What was the attitude of HOD?: v.

| vi. | What was attitude of other staff members: |
|------|---|
| vii. | Were you forced for anything by anybody: Money/Tuition/Gifts/Other/None, if yes then by Whom: |

viii. Any comment about interaction with other depts./colleague:

- ix. Hostel:
- x. Extra-curricular activity
 - a. Sports
 - b. Cultural
- xi. Teaching aids:
- xii. Library:
 - a. Central
 - b. Department
- xiii. Work place safety:
- xiv. Deficiencies you would like to point out particularly:
- xv. Brief comments:

Signature & Date

| | Student appraisal form for MD in Pathology | | | | | | | | | | |
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| Less than Satisfactory Satisfactory Satisfactory Comme | | | | | | | | Comments | | | |
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| | Scholastic aptitude | | | | | |
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| | appropriate for | | | | | |
| 1.1 | level of training | | | | | |
| 1.1 | Participation and | | | | | |
| | contribution to | | | | | |
| 1, | | | | | | |
| 1.2 | learning activity | | | | | |
| | (e.g., Journal Club, | | | | | |
| | Seminars, CME etc) | | | | | |
| | Conduct of | | | | | |
| | research and other | | | | | |
| 1.3 | scholarly activity | | | | | |
| | assigned (e.g | | | | | |
| | Posters, | | | | | |
| 1 4 | publications etc) Documentation of | | | | | |
| 1.4 | | | | | | |
| | acquisition of | | | | | |
| | competence | | | | | |
| | (eg Log book) | | | | | |
| 1.5 | Performance in work | | | | | |
| | based assessments | | | | | |
| 1.6 | Self-directed Learning | | | | | |
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| | Work related to | | | | | |
| 2 | training | | | | | |
| | Practical skills that | | | | | |
| 2.1 | are appropriate for | | | | | |
| | the level of training | | | | | |
| | Respect for | | | | | |
| | processes and | | | | | |
| | procedures in the | | | | | |
| 2.2 | work space | | | | | |
| | Ability to work with | | | | | |
| 2.3 | other members of the | | | | | |
| | team | | | | | |
| | Participation and | | | | | |
| | compliance with | | | | | |
| | the quality | | | | | |
| | improvement | | | | | |
| | process at the work | | | | | |
| 2.4 | environment | | | | | |
| | Ability to record | | | | | |
| | and document work | | | | | |
| | accurately and | | | | | |
| | appropriate for | | | | | |
| 2.5 | level of training | | | | | |
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| 3 | Professional attributes | | | | | | |
|-----|---|---------|----|--|--|--|--|
| 3.1 | Responsibility and accountability | | | | | | |
| 3.2 | Contribution to growth of learning of the team | | | | | | |
| 3.3 | Conduct that is ethically appropriate and respectful at all times | | | | | | |
| | | | | | | | |
| 4 | Space for additional comments | | | | | | |
| | | | | | | | |
| 5 | Disposition | | | | | | |
| | Has this assessment pattern been discussed with the trainee? | Ye s | No | | | | |
| | If not explain. | | | | | | |
| | | | | | | | |
| | Name and Signature of the assesse | | | | | | |
| | Name and Signature of the assessor | | | | | | |
| | Date | | | | | | |