



**Royal Medical Services**

**Professional Training Division**

**Logbook for clinical Pathology/ Hematology  
Residents**

**Personal details:**

Full Name in Arabic:

Full name in English:

National number:

Start date of your residency program:

Your signature: \_\_\_\_\_

Head of the Department: \_\_\_\_\_

Signature & Stamp: \_\_\_\_\_ Date: \_\_\_\_\_

## Training Posts Held

| Post Number      | Division | Residency Year | Start Date | Finish Date | Consultant | Consultant signature |
|------------------|----------|----------------|------------|-------------|------------|----------------------|
| 1 <sup>st</sup>  |          |                |            |             |            |                      |
| 2 <sup>nd</sup>  |          |                |            |             |            |                      |
| 3 <sup>rd</sup>  |          |                |            |             |            |                      |
| 4 <sup>th</sup>  |          |                |            |             |            |                      |
| 5 <sup>th</sup>  |          |                |            |             |            |                      |
| 6 <sup>th</sup>  |          |                |            |             |            |                      |
| 7 <sup>th</sup>  |          |                |            |             |            |                      |
| 8 <sup>th</sup>  |          |                |            |             |            |                      |
| 9 <sup>th</sup>  |          |                |            |             |            |                      |
| 10 <sup>th</sup> |          |                |            |             |            |                      |
| 11 <sup>th</sup> |          |                |            |             |            |                      |
| 12 <sup>th</sup> |          |                |            |             |            |                      |
| 13 <sup>th</sup> |          |                |            |             |            |                      |
| 14 <sup>th</sup> |          |                |            |             |            |                      |
| 15 <sup>th</sup> |          |                |            |             |            |                      |
| 16 <sup>th</sup> |          |                |            |             |            |                      |
| 17 <sup>th</sup> |          |                |            |             |            |                      |
| 18 <sup>th</sup> |          |                |            |             |            |                      |
| 19 <sup>th</sup> |          |                |            |             |            |                      |

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|------|--|--|--|--|--|--|
| 20th |  |  |  |  |  |  |
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This form should only be signed by the consultant or trainer at the end of the post, provided that the trainee has finished the period of the training satisfactorily.

**KING HUSSEIN MEDICAL CENTER**  
**PRINCESS IMAN RESEARCH AND LAB SCIENCES CENTER**  
**HEMATOLOGY DEPARTMENT**

Logbook for hematology residents

Name:

Military number:

Level: first year

Duration of training: 3 months

| Date       |   |
|------------|---|
| Two months | 1- General overview of all lab tests in the hematology laboratory.<br><br>2- Performing routine tests done in the hematology department like automated CBC and differential with ESR. |
| Two weeks  | 3- Performing general coagulation tests in coagulation laboratory.  |
| Two weeks  | 4- Performing general blood bank tests like blood grouping and coomb's test.  |

**Note:** 1-Scientific lectures inside hematology department once weekly on Tuesday  
2- Scientific lectures inside Princess Iman Research and Lab Sciences Center  
3-Attending hematology workshops and conferences

**KING HUSSEIN MEDICAL CENTER**  
**PRINCESS IMAN RESEARCH AND LAB SCIENCES CENTER**  
**HEMATOLOGY DEPARTMENT**

Logbook for hematology residents

Name:

Military number:

Level: Second year

Duration of training: 6 months

| Date         |  |
|--------------|--|
| Twenty weeks | 1- Interpretation of peripheral blood smears including cases of anemia, granulocytic disorders, and reactive platelets disorders |
| Two weeks    | 3- Performing and interpretation of routine coagulation tests.   |
| Two weeks    | 5- Performing and interpretation of blood bank testing including cross-matching and coomb's test,                                |

**Note:** 1-Scientific lectures inside hematology department once weekly on Tuesday  
2- Scientific lectures inside Princess Iman Research and Lab Sciences Center  
3-Attending hematology workshops and conferences

**KING HUSSEIN MEDICAL CENTER**  
**PRINCESS IMAN RESEARCH AND LAB SCIENCES CENTER**  
**HEMATOLOGY DEPARTMENT**

Logbook for hematology residents

Name:

Military number:

Level: Third year

Duration of training: 9 months

| Date         |  |
|--------------|--|
| Eight months | 1- Reading and interpretation of peripheral blood and bone marrow smears and diagnosing different types of anemias, acute and chronic leukemias. Seeing related bone marrow biopsies done at the histopathology department.<br>2- Reading flow cytometry results in correlation with morphology. |
| Two weeks    | 3- Performing and interpretation of blood bank tests including routine tests and certain special tests.  |
| One week     | 4- Performing simple routine coagulation tests and interpretation of certain special tests.  |
| One week     | 5- Interpretation of hemoglobin electrophoresis results.   |

**Note:** 1-Scientific lectures inside hematology department once weekly on Tuesday  
2- Scientific lectures inside Princess Iman Research and Lab Sciences Center  
3-Attending hematology workshops and conferences

**KING HUSSEIN MEDICAL CENTER**  
**PRINCESS IMAN RESEARCH AND LAB SCIENCES CENTER**  
**HEMATOLOGY DEPARTMENT**

Logbook for hematology residents

Name:

Military number:

Level: fourth year

Duration: 12 month

| Date       |  |
|------------|--|
| Ten months | 1- Reading and interpretation of all bone marrow aspirate smears and seeing stained bone marrow biopsies for the same cases done at histopathology department.<br><br>2-Reading and interpretation of all flow cytometry results |
| Two weeks  | 3-Reading and interpretation of results related to all types of leukemias and lymphomas at molecular and cytogenetic department.   |
| Two weeks  | 4- Performing and interpretation of routine and special blood bank tests.  |
| Two weeks  | 5- Interpretation of hemoglobin electrophoresis results  |
| Two weeks  | 6- Interpretation special coagulation tests.   |

- Note:** 1-Scientific lectures inside hematology department once weekly on Tuesday  
2- Scientific lectures inside Princess Iman Research and Lab Sciences Center  
3-Attending hematology workshops and conferences



**Hematology resident program in others clinical pathology departments: clinical chemistry, immunology, microbiology and blood bank.**

**First year**

**Duration of training: 3 months in each division**

**Immunology department**

| Date      |   |
|-----------|---|
| One month | <p>1- General overview of all lab tests in the immunology laboratory.</p> <p>2-Performing routine tests and latex agglutination tests( RF, CRP, ASOT, Brucella screening and titer , monospot test for EBV, pregnancy test and Bence- Jones proteins)</p> <p>3- interpretation of routine test and latex agglutination tests</p>  |
| One month | <p>1- To learn how to setup, evaluate and interpret clinical immunology procedures</p> <p>2- Observe serology tests with attention to methodology principles, QC, safety, troubleshooting problems.</p> <p>3-Performing ELISA tests and interpretation of results</p>   |
| One month | <p>1-Interpretation of blood bank results including hepatitis HBsAg, HCV Ab, HIV Ab, RPR.</p> <p>2- Performing and reading indirect immunofluorescence slides (ANA, AMA, ASMA, Anti- dsDNA, LKM1, ANCA)</p> <p>3-Analysis of SPE and immunofixation results and correlation with clinical picture.</p> <p>4- Review the abnormal results daily, check for discrepant results.</p> |

## **Microbiology**

**Basic Bacteriology** Culture Media ,Sterilization and Disinfection-(The Autoclave) Handling of specimens, Microscopy, Bacterial Morphology (Gram,ZN and Albert staining), Cultivation of Bacteria (The growth Curve),Bacterial Identification Methods, Antibiotic Sensitivity Testing.

### **Identification of microorganisms:**

- 1-Select appropriate media and methods for identification
- 2-Intrepret results
- 3- Distinguish between normal flora and pathogens
- 4- Perform susceptibility tests and interpret results

## **Clinical chemistry**

### 1- Reception and specimen separation

- Identify all types of tests and the nature of the sample required for each test
- Identify all kinds of tubes and components and what tests can work for each type
- Identify all kinds of specimen separation and distribution of samples on different Sections
- Identify errors associated with the samples (errors pre-analysis) and ways to Dispose of the samples violation.

### 2- Division of Special tests

- Identify all the chemical methods of analysis and its applications and advantages of each method
- Identifying the special tests and methods of work
- Identify the available devices and the principle of its work
- Follow-up errors that may occur in the patient samples or their results
- The study of diseases that require these tests.
- Supervising the test results.

### 3- Automated tests Division

- Identify the available devices and ways of working and calibrated

- Identify the different working methods of the tests
- Identify errors that may occur for different samples and methods of solution.
- Recognize the results of various medical tests and their suitability for the diagnosis of patients.

#### 4- Division of hormonal tests

- Identify the available devices and ways of working and calibrated
- Identify ways the work of the various tests and errors that may get the Samples and methods of solution.
- Identify the tumor markers and drugs and appropriateness of the results With diagnosis.

#### 5- Division of genetic tests

- Identify the available devices and ways of working and calibrated.
- Identify errors that may get the samples and methods of solution.

## **Second year**

**Duration of training: 2 months in each division**

### **Immunology department**

| Date      |  |
|-----------|--|
| One month | 1- General overview of all lab tests in the immunology laboratory.<br>2-Performing routine tests and latex agglutination tests( RF, CRP, ASOT, Brucella screening and titer , monospot test for EBV, pregnancy test and Bence- Jones proteins)<br>3- interpretation of routine test and latex agglutination tests<br>4- Observe serology tests with attention to methodology principles, QC, safety, troubleshooting problems. |
| One month | 1- To learn how to setup, evaluate and interpret clinical immunology procedures<br>2- Performing and reading indirect immunofluorescence slides (ANA, AMA, ASMA, Anti- dsDNA, LKM1, ANCA)<br>3-Analysis of SPE and immunofixation results and correlation with   |

|  |   |
|--|---|
|  | <p>clinical picture.</p> <p>4-Performing ELISA tests and interpretation of results</p> <p>5- Review the abnormal results daily, check for discrepant results.</p> <p>6- Analysis of SPE and immunofixation results and correlation with clinical picture.</p> |
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### **Microbiology**

**Basic Bacteriology** Culture Media ,Sterilization and Disinfection-(The Autoclave) Handling of specimens, Microscopy, Bacterial Morphology (Gram,ZN and Albert staining), Cultivation of Bacteria (The growth Curve),Bacterial Identification Methods, Antibiotic Sensitivity Testing.

#### **Identification of microorganisms:**

- 1-Select appropriate media and methods for identification
- 2-Intrepret results
- 3- Distinguish between normal flora and pathogens
- 4- Perform susceptibility tests and interpret results

### **Clinical chemistry**

- 1- Automated tests division
  - Study of the working methods of automated analysis equipment, review and work on these devices.
  - Study of the working methods of the laboratory tests.
  - Study results of the tests and work to confirm it.
- 2- Special tests division
  - study devices used in manual analysis and principles of work and work on it.
  - Study the required tests and their suitability for the diagnosis of patients.
  - Study tests for organ transplant patients and their applications (cyclosporine, prograf, rapamune, methotrexate)
- 3- Division of hormonal tests
  - Study of the working methods of automated analysis equipment and reviewed and work on these devices.
  - Interpretation results of hormonal tests and confirmation.

- 4- Division of genetic chemistry tests
- Identify how to work on these devices.
  - Identify the different ways to prepare the tests.

### **Third year**

**Duration of training: 1 month in each division**

#### **IMMUNOLOGY DEPARTMENT**

| Date      |   |
|-----------|---|
| One month | <p>1- General overview of all lab tests in the immunology laboratory.</p> <p>2- To learn how to setup, evaluate and interpret clinical immunology procedures</p> <p>3-Performing routine tests and latex agglutination tests( RF, CRP, ASOT, Brucella screening and titer , monospot test for EBV, pregnancy test and Bence- Jones proteins)</p> <p>4- interpretation of routine test and latex agglutination tests</p> <p>5- Observe serology tests with attention to methodology principles, QC, safety, troubleshooting problems.</p> <p>6- - Performing and reading indirect immunofluorescence slides (ANA, AMA, ASMA, Anti- dsDNA, LKM1, ANCA)</p> <p>7- Performing ELISA tests and interpretation of results</p> <p>8- Review the abnormal results daily, check for discrepant results.</p> <p>9- Analysis of SPE and immunofixation results and correlation with clinical picture.</p> <p>10- Observe HLA typing and interpretation</p> |

**Microbiology department**

| ROTATION  | DURATION |
|---|----------|
| Reading and processing of culture and antibiotic susceptibility |          |
| Blood and CSF culture   | 1 week   |
| Urine ,genitourinary and gastrointestinal specimens             | 1 week   |
| Wound ,respiratory specimens, mycology                          | 1 week   |
| Isolation and identification of mycobacteria                    | 1 week   |

**Clinical chemistry**

1- Reading and interpretation of results: automated general test, special tests, hormonal tests, genetic chemistry test.

2- Confirmation of the results











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**BLOOD BANK TESTS**

| Year of residency    | HBsAg   |           | HBcAb   |           | HCV-Ab  |           | HIV-Ab  |           |
|----------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
|                      | Perform | Interpret | Perform | Interpret | Perform | Interpret | Perform | Interpret |
| 1 <sup>st</sup> year |         |           |         |           |         |           |         |           |
| 2d year              |         |           |         |           |         |           |         |           |
| 3d year              |         |           |         |           |         |           |         |           |
| 4 <sup>th</sup> year |         |           |         |           |         |           |         |           |

| Year of residency    | CMV-Ab  |           | VDRL(RPR) |           |
|----------------------|---------|-----------|-----------|-----------|
|                      | Perform | Interpret | Perform   | Interpret |
| 1 <sup>st</sup> year |         |           |           |           |
| 2d year              |         |           |           |           |
| 3d year              |         |           |           |           |
| 4 <sup>th</sup> year |         |           |           |           |

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**IMMUNOGLOBULIN CLASSES AND COMPLEMENT**

| Year of residency    | IgA     |           | IgM     |           | IgG     |           | IgD     |           |
|----------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
|                      | Perform | Interpret | Perform | Interpret | Perform | Interpret | Perform | Interpret |
| 1 <sup>st</sup> year |         |           |         |           |         |           |         |           |
| 2d year              |         |           |         |           |         |           |         |           |
| 3d year              |         |           |         |           |         |           |         |           |
| 4 <sup>th</sup> year |         |           |         |           |         |           |         |           |

| Year of residency    | IgE     |           | C 3     |           | C4      |           | CH 100 complement |           |
|----------------------|---------|-----------|---------|-----------|---------|-----------|-------------------|-----------|
|                      | Perform | Interpret | Perform | Interpret | Perform | Interpret | Perform           | Interpret |
| 1 <sup>st</sup> year |         |           |         |           |         |           |                   |           |
| 2d year              |         |           |         |           |         |           |                   |           |
| 3d year              |         |           |         |           |         |           |                   |           |
| 4 <sup>th</sup> year |         |           |         |           |         |           |                   |           |

| Year of residency    | CH 50 complement |           | C1 esterase inhibitor |           | C1q inhibitor level |           |         |           |
|----------------------|------------------|-----------|-----------------------|-----------|---------------------|-----------|---------|-----------|
|                      | Perform          | Interpret | Perform               | Interpret | Perform             | Interpret | Perform | Interpret |
| 1 <sup>st</sup> year |                  |           |                       |           |                     |           |         |           |
| 2d year              |                  |           |                       |           |                     |           |         |           |
| 3d year              |                  |           |                       |           |                     |           |         |           |
| 4 <sup>th</sup> year |                  |           |                       |           |                     |           |         |           |

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**Microbiology department rotation**

**Stain techniques :**

| Year of residency    | Wet mount preparation |           | (Gram stain) |           | Methylene blue stain |           | Ziehl–Neelsen stain |           |
|----------------------|-----------------------|-----------|--------------|-----------|----------------------|-----------|---------------------|-----------|
|                      | Perform               | Interpret | Perform      | Interpret | Perform              | Interpret | Perform             | Interpret |
| 1 <sup>st</sup> year |                       |           |              |           |                      |           |                     |           |
| 2d year              |                       |           |              |           |                      |           |                     |           |
| 3d year              |                       |           |              |           |                      |           |                     |           |
| 4 <sup>th</sup> year |                       |           |              |           |                      |           |                     |           |

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**Media preparation:**

| Year of residency    | Blood medium prepared | Chocolate medium prepared | MacConkey media prepared | Sabouraud medium prepared |
|----------------------|-----------------------|---------------------------|--------------------------|---------------------------|
| 1 <sup>st</sup> year |                       |                           |                          |                           |
| 2d year              |                       |                           |                          |                           |
| 3d year              |                       |                           |                          |                           |
| 4 <sup>th</sup> year |                       |                           |                          |                           |

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## **Urine culture :**

| Year of residency    | specimen processing performed | negative growth cultures seen | Positive Growth cultures seen | Identification and sensitivity performed |             |
|----------------------|-------------------------------|-------------------------------|-------------------------------|--|-------------|
|                      |                               |                               |                               | identification                           | sensitivity |
| 1 <sup>st</sup> year |                               |                               |                               |  |             |
| 2d year              |                               |                               |                               |  |             |
| 3d year              |                               |                               |                               |  |             |
| 4 <sup>th</sup> year |                               |                               |                               |  |             |
|                      |                               |                               |                               |  |             |

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## **Stool culture :**

| Year of residency    | specimen processing performed | negative growth cultures seen | Positive Growth cultures seen | Identification and sensitivity performed |             |
|----------------------|-------------------------------|-------------------------------|-------------------------------|--|-------------|
|                      |                               |                               |                               | identification                           | sensitivity |
| 1 <sup>st</sup> year |                               |                               |                               |  |             |
| 2d year              |                               |                               |                               |  |             |
| 3d year              |                               |                               |                               |  |             |
| 4 <sup>th</sup> year |                               |                               |                               |  |             |

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## **Cerebrospinal fluid culture:**

| Year of residency    | specimen processing performed | negative growth cultures seen | Positive Growth cultures seen | Identification and sensitivity performed |             |
|----------------------|-------------------------------|-------------------------------|-------------------------------|--|-------------|
|                      |                               |                               |                               | identification                           | sensitivity |
| 1 <sup>st</sup> year |                               |                               |                               |  |             |
| 2d year              |                               |                               |                               |  |             |
| 3d year              |                               |                               |                               |  |             |
| 4 <sup>th</sup> year |                               |                               |                               |  |             |

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**Blood culture:**

| Year of residency    | specimen processing performed | Wet mount preparation seen | Negative cultures seen | Positive Growth cultures seen | Identification and sensitivity performed |             |
|----------------------|-------------------------------|----------------------------|------------------------|-------------------------------|--|-------------|
|                      |                               |                            |                        |                               | identification                           | sensitivity |
| 1 <sup>st</sup> year |                               |                            |                        |                               |  |             |
| 2d year              |                               |                            |                        |                               |  |             |
| 3d year              |                               |                            |                        |                               |  |             |
| 4 <sup>th</sup> year |                               |                            |                        |                               |  |             |

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## Swab culture:

| Year of residency    | Throat swab |           | Nasal swab |           | Ear swab  |           | Wound swab |           |
|----------------------|-------------|-----------|------------|-----------|-----------|-----------|------------|-----------|
|                      | processed   | Interpret | Processed  | Interpret | Processed | Interpret | processed  | Interpret |
| 1 <sup>st</sup> year |             |           |            |           |           |           |            |           |
| 2d year              |             |           |            |           |           |           |            |           |
| 3d year              |             |           |            |           |           |           |            |           |
| 4 <sup>th</sup> year |             |           |            |           |           |           |            |           |

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| Year of residency    | Axillary's swab |           | High vaginal swab |           | Eye swab  |           | Miscellaneous swabs |           |
|----------------------|-----------------|-----------|-------------------|-----------|-----------|-----------|---------------------|-----------|
|                      | processed       | Interpret | Processed         | Interpret | Processed | Interpret | processed           | Interpret |
| 1 <sup>st</sup> year |                 |           |                   |           |           |           |                     |           |
| 2d year              |                 |           |                   |           |           |           |                     |           |
| 3d year              |                 |           |                   |           |           |           |                     |           |
| 4 <sup>th</sup> year |                 |           |                   |           |           |           |                     |           |

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## **Effusions culture:**

| Year of residency    | Ascitic fluid |           | Pericardial fluid |           | Peritoneal fluid |           | Pleural fluid |           |
|----------------------|---------------|-----------|-------------------|-----------|------------------|-----------|---------------|-----------|
|                      | processed     | Interpret | Processed         | Interpret | Processed        | Interpret | processed     | Interpret |
| 1 <sup>st</sup> year |               |           |                   |           |                  |           |               |           |
| 2d year              |               |           |                   |           |                  |           |               |           |
| 3d year              |               |           |                   |           |                  |           |               |           |
| 4 <sup>th</sup> year |               |           |                   |           |                  |           |               |           |

| Year of residency    | Synovial fluid |           | Pericardial fluid |           | Peritoneal fluid |           | Pleural fluid |           |
|----------------------|----------------|-----------|-------------------|-----------|------------------|-----------|---------------|-----------|
|                      | processed      | Interpret | Processed         | Interpret | Processed        | Interpret | processed     | Interpret |
| 1 <sup>st</sup> year |                |           |                   |           |                  |           |               |           |
| 2d year              |                |           |                   |           |                  |           |               |           |
| 3d year              |                |           |                   |           |                  |           |               |           |
| 4 <sup>th</sup> year |                |           |                   |           |                  |           |               |           |

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## **Pus culture:**

| Year of residency    | Urethral discharge |             |                |           | Brain abscess |             |                |           |
|----------------------|--------------------|-------------|----------------|-----------|---------------|-------------|----------------|-----------|
|                      | Microscopy         | cultivation | interpretation | reporting | Microscopy    | cultivation | interpretation | reporting |
| 1 <sup>st</sup> year |                    |             |                |           |               |             |                |           |
| 2d year              |                    |             |                |           |               |             |                |           |
| 3d year              |                    |             |                |           |               |             |                |           |
| 4 <sup>th</sup> year |                    |             |                |           |               |             |                |           |

| Year of residency    | Liver abscess |             |                |           | Miscellaneous abscess |             |                |           |
|----------------------|---------------|-------------|----------------|-----------|-----------------------|-------------|----------------|-----------|
|                      | Microscopy    | cultivation | interpretation | reporting | Microscopy            | cultivation | interpretation | reporting |
| 1 <sup>st</sup> year |               |             |                |           |                       |             |                |           |
| 2d year              |               |             |                |           |                       |             |                |           |
| 3d year              |               |             |                |           |                       |             |                |           |
| 4 <sup>th</sup> year |               |             |                |           |                       |             |                |           |

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## **Lower respiratory specimens:**

| Year of residency    | Sputum specimens |             |                |           | Brochoalveolar lavage specimens |             |                |           |
|----------------------|------------------|-------------|----------------|-----------|---------------------------------|-------------|----------------|-----------|
|                      | Microscopy       | cultivation | interpretation | reporting | Microscopy                      | cultivation | interpretation | reporting |
| 1 <sup>st</sup> year |                  |             |                |           |                                 |             |                |           |
| 2d year              |                  |             |                |           |                                 |             |                |           |
| 3d year              |                  |             |                |           |                                 |             |                |           |
| 4 <sup>th</sup> year |                  |             |                |           |                                 |             |                |           |

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## **Mycobacterium :**

| Year of residency    | Sample processing | z-n stain for screening |          | Auramine stain |          | Positive cultures |           |
|----------------------|-------------------|-------------------------|----------|----------------|----------|-------------------|-----------|
|                      |                   | prepared                | positive | Prepared       | positive | z-n stain         | reporting |
| 1 <sup>st</sup> year |                   |                         |          |                |          |                   |           |
| 2d year              |                   |                         |          |                |          |                   |           |
| 3d year              |                   |                         |          |                |          |                   |           |
| 4 <sup>th</sup> year |                   |                         |          |                |          |                   |           |

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**Mycology culture:**

| Year of residency    | Specimens processed |           | Wet mount preparation |           | reporting |             |
|----------------------|---------------------|-----------|-----------------------|-----------|-----------|-------------|
|                      | Perform             | Interpret | Perform               | Interpret | identify  | sensitivity |
| 1 <sup>st</sup> year |                     |           |                       |           |           |             |
| 2 <sup>d</sup> year  |                     |           |                       |           |           |             |
| 3 <sup>d</sup> year  |                     |           |                       |           |           |             |
| 4 <sup>th</sup> year |                     |           |                       |           |           |             |

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## **Parasitology:**

| Year of residency    | Specimens processed |         | Normal saline preparation |           | Iodine preparation |           | Reporting |
|----------------------|---------------------|---------|---------------------------|-----------|--------------------|-----------|-----------|
|                      | Stool               | genital | Perform                   | Interpret | Perform            | Interpret |           |
| 1 <sup>st</sup> year |                     |         |                           |           |                    |           |           |
| 2d year              |                     |         |                           |           |                    |           |           |
| 3d year              |                     |         |                           |           |                    |           |           |
| 4 <sup>th</sup> year |                     |         |                           |           |                    |           |           |

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## **Commercial systems:**

| Year of residency    | BACTEC  |           | VITEK   |           |
|----------------------|---------|-----------|---------|-----------|
|                      | process | interpret | Process | Interpret |
| 1 <sup>st</sup> year |         |           |         |           |
| 2d year              |         |           |         |           |
| 3d year              |         |           |         |           |
| 4 <sup>th</sup> year |         |           |         |           |

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**Serology tests:**

| Year of residency    | <i>Salmonella typing</i> |           | <i>Shigella</i> |           | <i>Rotazyme</i> |           | <i>Streptococcus grouping</i> |           |
|----------------------|--------------------------|-----------|-----------------|-----------|-----------------|-----------|-------------------------------|-----------|
|                      | process                  | interpret | Process         | Interpret | Process         | Interpret | Process                       | interpret |
| 1 <sup>st</sup> year |                          |           |                 |           |                 |           |                               |           |
| 2d year              |                          |           |                 |           |                 |           |                               |           |
| 3d year              |                          |           |                 |           |                 |           |                               |           |
| 4 <sup>th</sup> year |                          |           |                 |           |                 |           |                               |           |

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## **Virology :**

| Year of residency    | <i>Cytomegalovirus</i><br><i>In urine</i> |           | <i>Cytomegalovirus</i><br><i>In blood</i> |           | <i>Epstein-Barr Virus</i><br>In blood |           | <i>Herpes simplex virus</i><br>1 |           |
|----------------------|---|-----------|---|-----------|---------------------------------------|-----------|----------------------------------|-----------|
|                      | processed                                 | Interpret | Processed                                 | Interpret | Processed                             | Interpret | processed                        | Interpret |
| 1 <sup>st</sup> year |   |           |   |           |                                       |           |                                  |           |
| 2d year              |   |           |   |           |                                       |           |                                  |           |
| 3d year              |   |           |   |           |                                       |           |                                  |           |
| 4 <sup>th</sup> year |   |           |   |           |                                       |           |                                  |           |

## **Other tests :**

| Year of residency    | <i>Catalase test</i> |           | <i>Coagulase test</i> |         | <i>Oxidase test</i> |           |
|----------------------|----------------------|-----------|-----------------------|---------|---------------------|-----------|
|                      | process              | interpret | Process               | Perform | Perform             | Interpret |
| 1 <sup>st</sup> year |                      |           |                       |         |                     |           |
| 2d year              |                      |           |                       |         |                     |           |
| 3d year              |                      |           |                       |         |                     |           |
| 4 <sup>th</sup> year |                      |           |                       |         |                     |           |



**Clinical chemistry rotation**

| Practical skills<br>year of residency | centrifugation & Specimen separation | Specimen collection |
|---------------------------------------|--------------------------------------|---------------------|
| First year (number)                   |                                      |                     |
| Second year (number)                  |                                      |                     |
| Third year (number)                   |                                      |                     |
| Fourth year (number)                  |                                      |                     |

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## Kidney function panel

| Test                 | Na | K | Creatinine | Urea |
|----------------------|----|---|------------|------|
| year of residency    |    |   |            |      |
| First year (number)  |    |   |            |      |
| Second year (number) |    |   |            |      |
| Third year (number)  |    |   |            |      |
| Fourth year(number)  |    |   |            |      |

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## Lipid profile panel

| Test<br>year of<br>residency | Triglycerides | Cholesterol | HDL | LDL |
|------------------------------|---------------|-------------|-----|-----|
| First year (number)          |               |             |     |     |
| Second year<br>(number)      |               |             |     |     |
| Third year<br>(number)       |               |             |     |     |
| Fourth<br>year(number)       |               |             |     |     |

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| Test<br>year of<br>residency | Insulin | Cortisol | GH | ACTH | LH | FSH | Prolactin | B-HCG |
|------------------------------|---------|----------|----|------|----|-----|-----------|-------|
| First year (number)          |         |          |    |      |    |     |           |       |
| Second year (number)         |         |          |    |      |    |     |           |       |
| Third year (number)          |         |          |    |      |    |     |           |       |
| Fourth year (number)         |         |          |    |      |    |     |           |       |

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### Tumor markers panel

| Test<br>year of<br>residency | CEA | Free<br>PSA | Total<br>PSA | $\alpha$ -<br>Fetoprotein | CA125 | CA19.9 | CA15.3 |
|------------------------------|-----|-------------|--------------|---------------------------|-------|--------|--------|
| First year<br>(number)       |     |             |              |                           |       |        |        |
| Second year<br>(number)      |     |             |              |                           |       |        |        |
| Third year<br>(number)       |     |             |              |                           |       |        |        |
| Fourth<br>year(number)       |     |             |              |                           |       |        |        |







| Test<br>year of<br>residency | <b>METANEPHRINES</b> | <b>METHYLMALONIC<br/>ACID</b> | <b>Norepinephrine</b> | <b>Osmolality</b> | <b>Phosphate</b> |
|------------------------------|----------------------|-------------------------------|-----------------------|-------------------|------------------|
| First year<br>(number)       |                      |                               |                       |                   |                  |
| Second year<br>(number)      |                      |                               |                       |                   |                  |
| Third year<br>(number)       |                      |                               |                       |                   |                  |
| Fourth<br>year(number)       |                      |                               |                       |                   |                  |

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### Drugs and toxic materials

| Test<br>year of<br>residency | Acetaminophen | Amikacin | ANTICONVALESANTS | BARBITURATES | BENZODIAZEPINE |
|------------------------------|---------------|----------|------------------|--------------|----------------|
| First year<br>(number)       |               |          |                  |              |                |
| Second year<br>(number)      |               |          |                  |              |                |
| Third year<br>(number)       |               |          |                  |              |                |
| Fourth<br>year(number)       |               |          |                  |              |                |

| Test<br>year of<br>residency | <b>Cyclosporine</b> | <b>Digoxin</b> | <b>Gentamicin</b> | <b>Heparin</b> | <b>Methotrexate</b> | <b>OPIATES</b> |
|------------------------------|---------------------|----------------|-------------------|----------------|---------------------|----------------|
| First year<br>(number)       |                     |                |                   |                |                     |                |
| Second year<br>(number)      |                     |                |                   |                |                     |                |
| Third year<br>(number)       |                     |                |                   |                |                     |                |
| Fourth<br>year(number)       |                     |                |                   |                |                     |                |







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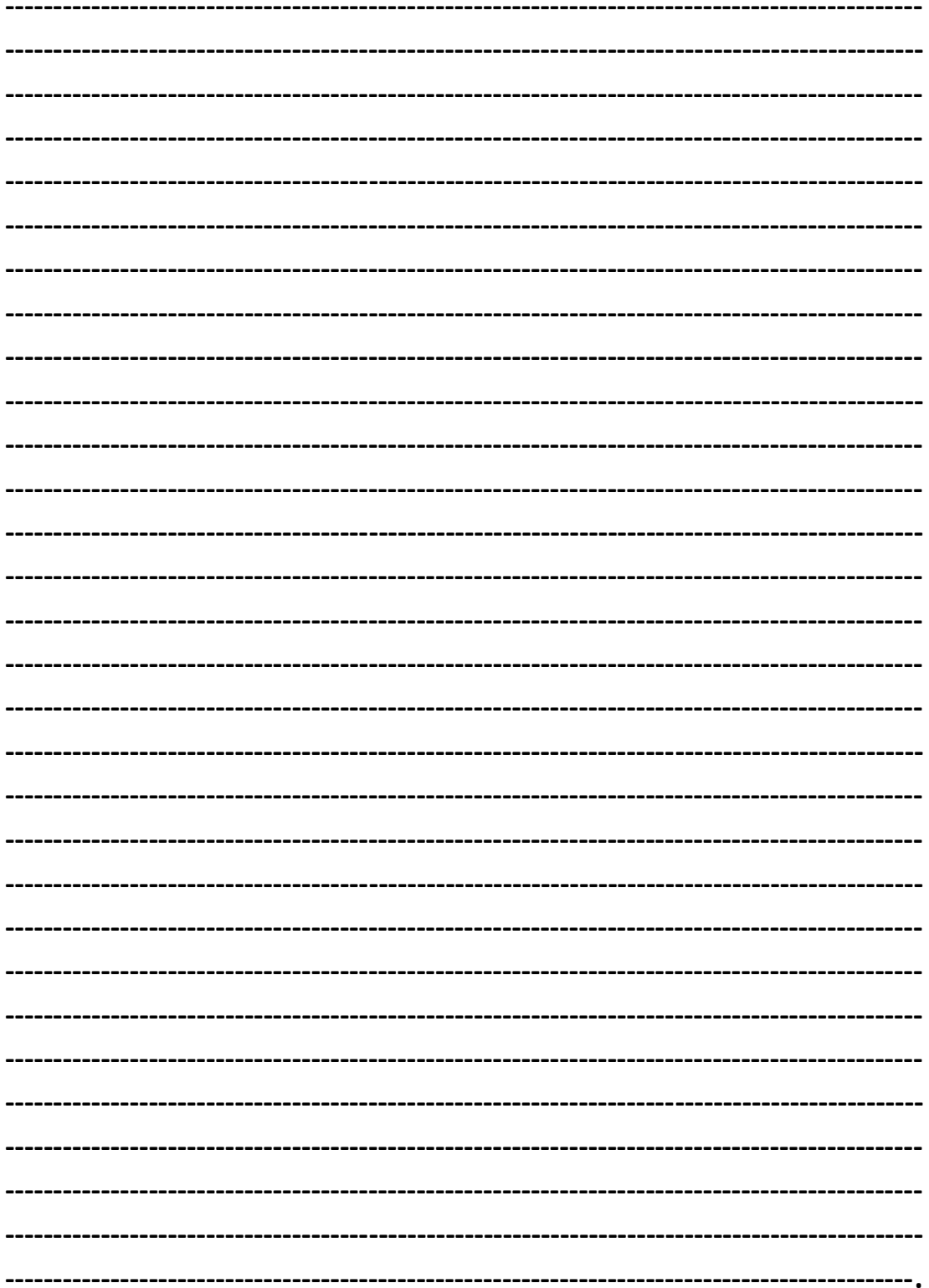
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**Vitamins**

| Test<br>year of<br>residency | <b>Vitamin B 1</b> | <b>Vitamin<br/>B 6</b> | <b>Vitamin B12</b> | <b>Vitamin<br/>B2</b> | <b>Vitamin D,<br/>1,25<br/>Dihydroxy</b> | <b>Vitamin D3</b> |
|------------------------------|--------------------|------------------------|--------------------|-----------------------|--|-------------------|
| First year<br>(number)       |                    |                        |                    |                       |  |                   |
| Second year<br>(number)      |                    |                        |                    |                       |  |                   |
| Third year<br>(number)       |                    |                        |                    |                       |  |                   |
| Fourth<br>year(number)       |                    |                        |                    |                       |  |                   |







**Supervisor name and signature**

**First year: Immunology department:** -----

**Microbiology department:** -----

**Hematology department:** -----

**Clinical chemistry department:** -----

**Second year: Immunology department:** -----

**Microbiology department:** -----

**Hematology department:** -----

**Clinical chemistry department:** -----

**Third year: Immunology department:** -----

**Microbiology department:** -----

**Hematology department:** -----

**Clinical chemistry department:** -----

**Fourth year: Hematology department:** -----

**Program director name and signature**

**First year:** -----

**Second year:** -----

**Third year:** -----

**Fourth year:** -----

**Chief of department name and signature**

**First year:** -----

**Second year:** -----

**Third year:** -----

**Fourth year:** -----