

Goals and Objectives
Nuclear Medicine Rotation
First Year Residents

Patient Care

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Use of effective communication and caring and respectful behavior when interacting with patients and their families.

Shows initiative and ability to gather essential and accurate information about patients (from chart, old films, lab, referring physician)

Ability to work with other health care professionals to provide patient focused care in the Nuclear Medicine Department , including technologists in the scan room, nurses in the stress test area, obtaining consent for sedation and invasive tests, access the PACS system to locate films, appropriate consultation in the reading room, answering the phone, calling referring physicians.

Recognition of physics, physiology, and radiation biology in daily nuclear medicine practice as it relates to the test being ordered.

Skills Based Objectives

By the final rotation in Nuclear Medicine as first year Radiology Resident, the resident will demonstrate:

Ability to use the PACS system to review correlative films.

Ability to operate the internal Nuclear Medicine Computers to retrieve that day's studies.

Ability to retrieve previous reports from the Computerized Data Systems.

Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical , and cognate (e. g. epidemiological and social –behavior) sciences and the application of this knowledge to patient care.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Understand the anatomy and the physiology necessary to perform and interpret gated studies, bone scans, hepatobiliary studies, ventilation and perfusion scans, and GI Bleeding studies.

Recognition of importance of obtaining all relevant information before interpretation or performance of exam, and be able to discuss the indications for the study.

Recognition of limitations in personal knowledge and not make decisions beyond level of personal competence.

Skill Based Objectives

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Recognition of normal and abnormal findings on the primary studies performed on call (ventilation perfusion studies, hepatobiliary studies, and GI Bleeding studies).

Ability to act as principal interpreter of routine whole body bone scans and gated blood pool studies.

Practiced Based Learning and Improvement

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Evidence of independent study using textbooks from suggested reading list

Appropriate follow-up of selected cases (obtains path reports, cardiac catheterization reports, discusses case with clinical team).

Discusses articles in Radiology Literature dealing with Nuclear Medicine.

Skill Based Objectives:

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Operation of use of UH/VA's PACs system and dictation systems.

Interpersonal and Communication Skills

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange with patients, patient's families, and all levels of professional associates.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Ability to work as an effective member of the imaging team and contribute to the clinical care of patients when appropriate.

Skills Based Objectives:

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Ability to dictate written reports of routine bone, gated blood pool, ventilation perfusion studies, hepatobiliary studies, and GI Bleeding studies.

Ability to report to the Emergency Room and referring physicians the results of exams performed on their patients.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Discussion of routine nuclear medicine procedures with patients and their families with sensitivity to cultural differences.

Professional dress, demeanor, and attitude in the reading room and patient care areas.

System Based Practice

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a first year Radiology Resident, the resident will demonstrate:

Knowledge of how their image interpretation and communication affect patient care

Initial awareness of effective management of time, supplies, scheduling, and personnel in the Nuclear Medicine Department.

Use of timely performance and interpretation of studies to decrease length of hospital stay for in-patients.

Concern for assisting patients with the complexities of the health care system whenever possible.

Goals and Objectives
Nuclear Medicine Rotation
Second Year Residents

Patient Care

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Use of effective communication and caring and respectful behavior when interacting with patients and their families.

Shows initiative and ability to gather essential and accurate information about patients (from chart, old films, lab, referring physician)

Ability to work with other health care professionals to provide patient focused care in the Nuclear Medicine Department , including technologists in the scan room, nurses in the stress test area, obtaining consent for sedation and invasive tests, access the PACS system to locate films, appropriate consultation in the reading room, answering the phone, calling referring physicians.

Application of physics, physiology, and radiation biology in daily nuclear medicine practice as it relates to the test being ordered.

Skills Based Objectives

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Ability to use the PACS system to review correlative films.

Ability to operate the internal Nuclear Medicine Computers to retrieve that day's studies.

Ability to retrieve previous reports from the Computerized Data Systems.

Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e. g. epidemiological and social –behavior) sciences and the application of this knowledge to patient care.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Understand the anatomy and the physiology necessary to perform and interpret renal studies, liver spleen scans, GI tract functional and imaging studies, tumor and abscess imaging, and give definitive interpretation of ventilation perfusion scans, and cardiac stress tests.

Analysis of all relevant information before interpretation or performance of exam, and be able to discuss the indications for the study.

Understanding of the advantages and disadvantages of available modalities especially as they relate to Nuclear Medicine.

Recognition of limitations in personal knowledge and not make decisions beyond level of personal competence.

Skill Based Objectives

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Further competence in understanding the normal and abnormal findings on the primary studies performed on call (ventilation perfusion studies, hepatobiliary studies, and GI Bleeding studies).

Ability to act as initial interpreter of renal studies, liver spleen scans, GI tract functional and imaging studies, tumor and abscess imaging, and ventilation perfusion imaging and myocardial perfusion studies..

Practiced Based Learning and Improvement

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Knowledge Based Objectives

Evidence of independent study using textbooks from suggested reading list, journal articles, and web based learning.

Appropriate follow-up of selected cases (obtains path reports, cardiac catheterization reports, discusses case with clinical team).

Discusses articles in Radiology Literature dealing with Nuclear Medicine.

Interest in teaching medical students, other service resident teams, nuclear medicine technologists and RN's about interesting cases in reading room including participation in team rounds.

Skill Based Objectives:

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Ability to do a web based literature search pertinent to Nuclear Medicine.

Operation of use of UH/VA's PACs system and dictation systems.

Interpersonal and Communication Skills

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange with patients, patient's families, and all levels of professional associates.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Ability to work as an effective member of the imaging team and contribute to the clinical care of patients when appropriate.

Discuss imaging results with residents and medical students on telephone and in reading room .

Skills Based Objectives:

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Ability to dictate correct and concise written reports for all studies, after review with staff.

Ability to report to the Emergency Room and referring physicians the results of exams performed on their patients.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Discussion of routine nuclear medicine procedures with patients and their families with sensitivity to cultural differences.

Professional dress, demeanor, and attitude in the reading room and patient care areas.

System Based Practice

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a second year Radiology Resident, the resident will demonstrate:

Knowledge of how the timeliness and content of their image interpretation and communication affect patient care

Practice of techniques of effective management of time, supplies, scheduling, and personnel in the Nuclear Medicine Department.

Use of timely performance and interpretation of studies to decrease length of hospital stay for in-patients.

Assisting patients with the complexities of the health care system whenever possible.

Goals and Objectives
Nuclear Medicine Rotation
Third Year Residents

Patient Care

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Use of effective communication and caring and respectful behavior when interacting with patients and their families.

Shows initiative and ability to gather essential and accurate information about patients (from chart, old films, lab, referring physician)

Ability to work with other health care professionals to provide patient focused care in the Nuclear Medicine Department , including technologists in the scan room, nurses in the stress test area, obtaining consent for sedation and invasive tests, access the PACS system to locate films, appropriate consultation in the reading room, answering the phone, calling referring physicians.

Application of physics, physiology, and radiation biology in daily nuclear medicine practice as it relates to the test being ordered.

Skills Based Objectives

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Ability to use the PACS system to review correlative films.

Ability to operate the internal Nuclear Medicine Computers to retrieve that day's studies.

Ability to retrieve previous reports from the Computerized Data Systems.

Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e. g. epidemiological and social –behavior) sciences and the application of this knowledge to patient care.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Understand the anatomy and the physiology necessary to perform and interpret renal studies, liver spleen scans, GI tract functional and imaging studies, tumor and abscess imaging, and give definitive interpretation of ventilation perfusion scans, and cardiac stress tests.

Analysis of all relevant information before interpretation or performance of exam, and be able to discuss the indications for the study.

Understanding of the advantages and disadvantages of available modalities especially as they relate to Nuclear Medicine.

Recognition of limitations in personal knowledge and not make decisions beyond level of personal competence.

Skill Based Objectives

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Further competence in understanding the normal and abnormal findings on the primary studies performed on call (ventilation perfusion studies, hepatobiliary studies, and GI Bleeding studies).

Ability to act as initial interpreter of renal studies, liver spleen scans, GI tract functional and imaging studies, tumor and abscess imaging, and ventilation perfusion imaging and myocardial perfusion studies..

Practiced Based Learning and Improvement

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Knowledge Based Objectives

Evidence of independent study using textbooks from suggested reading list, journal articles, and web based learning.

Appropriate follow-up of selected cases (obtains path reports, cardiac catheterization reports, discusses case with clinical team).

Discusses articles in Radiology Literature dealing with Nuclear Medicine.

Interest in teaching medical students, other service resident teams, nuclear medicine technologists and RN's about interesting cases in reading room including participation in team rounds.

Skill Based Objectives:

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Ability to do a web based literature search pertinent to Nuclear Medicine.

Operation of use of UH/VA's PACs system and dictation systems.

Interpersonal and Communication Skills

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange with patients, patient's families, and all levels of professional associates.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Ability to work as an effective member of the imaging team and contribute to the clinical care of patients when appropriate.

Discuss imaging results with residents and medical students on telephone and in reading room .

Skills Based Objectives:

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Ability to dictate correct and concise written reports for all studies, after review with staff.

Ability to report to the Emergency Room and referring physicians the results of exams performed on their patients.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Discussion of routine nuclear medicine procedures with patients and their families with sensitivity to cultural differences.

Professional dress, demeanor, and attitude in the reading room and patient care areas.

System Based Practice

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a third year Radiology Resident, the resident will demonstrate:

Knowledge of how the timeliness and content of their image interpretation and communication affect patient care

Practice of techniques of effective management of time, supplies, scheduling, and personnel in the Nuclear Medicine Department.

Use of timely performance and interpretation of studies to decrease length of hospital stay for in-patients.

Assisting patients with the complexities of the health care system whenever possible.

Goals and Objectives
Nuclear Medicine Rotation
Fourth Year Residents

Patient Care

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Effective communication and caring and respectful behavior when interacting with patients and their families.

Ability to collect and analyze information about patients in order to optimize choice of imaging modality, and select protocols to maximize information needed for diagnosis and treatment.

Ability to work with other health care professionals to provide patient focused care in the Nuclear Medicine Department , including technologists in the scan room, nurses in the stress test area, obtaining consent for sedation and invasive tests, access the PACS system to locate films, appropriate consultation in the reading room, answering the phone, calling referring physicians.

Application of physics, physiology, and radiation biology in daily nuclear medicine practice as it relates to the test being ordered, including appropriate precautions/protocols when imaging pregnant patients and nursing mothers.

Skills Based Objectives

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Ability to use the PACS system to review correlative films, and appropriate e-chart to obtain relevant clinical information.

Ability to operate the internal Nuclear Medicine Computers to retrieve that day's studies.

Ability to interpret all imaging studies to the level expected of the community diagnostic radiologists with staff oversight and consultation.

Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e. g. epidemiological and social –behavior) sciences and the application of this knowledge to patient care.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Recognition of normal and abnormal anatomy and physiology necessary to interpret all imaging studies to the level expected of the community diagnostic radiologists.

Formulate (with staff oversight) the treatment plan for ablation of thyroid remnants and therapy of thyroid metastases with radioiodine.

Analysis of all relevant information before interpretation or performance of exam, and to suggest additional or more appropriate examinations if indicated.

Understanding of the advantages and disadvantages of available modalities especially as they relate to Nuclear Medicine.

Recognition of limitations in personal knowledge and not make decisions beyond level of personal competence.

Skill Based Objectives

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Recognition of normal and abnormal findings on all Nuclear Medicine imaging studies and assessment of their implications for diagnosis and treatment.

Practiced Based Learning and Improvement

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Knowledge Based Objectives

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Evidence of independent study using textbooks from suggested reading list, journal articles, and web based learning, including information needed for difficult case management.

Appropriate follow-up of selected cases (obtains path reports, cardiac catheterization reports, discusses case with clinical team).

Discusses articles in Radiology Literature dealing with Nuclear Medicine.

Interest in teaching medical students, other service resident teams, nuclear medicine technologists and RN's about interesting cases in reading room including participation in team rounds.

Skill Based Objectives:

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Ability to do a web based literature search pertinent to Nuclear Medicine.

Operation of use of UH/VA's PACs system and dictation systems.

Interpersonal and Communication Skills

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange with patients, patient's families, and all levels of professional associates.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Ability to work as an effective member of the imaging team with the goal of optimizing contribution to diagnosis and clinical care of patients.

Ability to provide consultation with clinical team members on telephone and in reading room and formulate plans for further imaging of patients when needed.

Skills Based Objectives:

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Ability to dictate correct and concise written reports for all studies to the level expected of community diagnostic radiologist with minimal input/correction by staff.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Ability to explain all routine nuclear medicine procedures with patients and their families with sensitivity to cultural differences.

Professional dress, demeanor, and attitude in the reading room and patient care areas.

Interpretive skills and non-interpretive behaviors which are known to be assets in group practice such as reliability, availability, sharing in all work to be done, voluntarily assisting in times of crisis, composure at all times including stressful situations, minimizing influence of personal problems on professional duties.

System Based Practice

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Knowledge Based Objectives:

By the final rotation in Nuclear Medicine as a fourth year Radiology Resident, the resident will demonstrate:

Timely and accurate image interpretation (with staff oversight) to maximize efficient and medically appropriate patient care.

Ability to recognize and offer constructive criticism of inefficient or ineffective departmental activities.

Assisting patients with the complexities of the health care system including anticipation and proactive intervention to prevent likely problems.

Skills Based Objectives:

Prompt, accurate, and concise dictation to minimize transcription time and diagnostic decision making.

Prompt verification of reports.