

EPUB FREE PROJECT TO IMPROVE UTILIZATION OF RADIOLOGIC MANPOWER PB 253 285 (READ ONLY)

ON AVERAGE BETWEEN 1998 AND 2001 UTILIZATION PER MEDICARE ENROLLEE INCREASED 16 PER YEAR FOR MR IMAGING AND 7.15 PER YEAR FOR CT US INTERVENTIONAL RADIOLOGY AND NUCLEAR MEDICINE WHILE THAT FOR RADIOGRAPHY INCREASED 1 PER YEAR. BENEFITS FROM THE APPROPRIATE UTILIZATION OF RADIOLOGY INCLUDE LOWER TREATMENT COSTS BECAUSE OF EARLY DIAGNOSIS, REDUCTIONS IN UNNECESSARY SURGICAL INTERVENTIONS, HOSPITAL DAYS, AND PER PATIENT COSTS. THE USE OF LESS INVASIVE PROCEDURES WITH FASTER RECOVERY TIMES AND MORE RAPID AND ACCURATE DIAGNOSES. UTILIZATION MANAGEMENT REPRESENTS AN IMPORTANT OPPORTUNITY FOR RADIOLOGISTS TO BE INVOLVED IN THE DECISION MAKING PROCESS, REGULATING THE USE OF THEIR SERVICES, AND PROVIDING FAST FEEDBACK TO OTHER SPECIALTIES THAT RELY ON IMAGING AS A COMPLEMENT TO THEIR CLINICAL PRACTICE. PREVIOUS GROWTH IN THE UTILIZATION OF MEDICAL IMAGING HAS LED TO NUMEROUS EFFORTS TO REDUCE ASSOCIATED SPENDING. ALTHOUGH THESE HAVE HISTORICALLY BEEN DIRECTED TOWARD UNIT COST REDUCTIONS, RECENT INTEREST HAS EMERGED BY VARIOUS STAKEHOLDERS IN CURBING INAPPROPRIATE UTILIZATION. THE ACR APPROPRIATENESS CRITERIA ARE EVIDENCE BASED GUIDELINES TO ASSIST REFERRING PHYSICIANS AND OTHER PROVIDERS IN MAKING THE MOST APPROPRIATE IMAGING OR TREATMENT DECISION FOR A SPECIFIC CLINICAL CONDITION. OUR MAIN GOAL WAS TO REPORT THE UTILIZATION RATES OF NONINVASIVE DIAGNOSTIC IMAGING IN A COMMERCIALLY INSURED POPULATION AND TO COMPARE THEM WITH RATES IN MEDICARE FOR SERVICE ENROLLEES BY USING THE SAME CAREFULLY DEFINED AGGREGATION OF IMAGING CODES. THE HIGHEST RATED CAUSES OF INCREASING USE OF RADIOLOGICAL INVESTIGATIONS WERE A NEW RADIOLOGICAL TECHNOLOGY, B. PEOPLES DEMANDS, C. CLINICIANS INTOLERANCE FOR UNCERTAINTY, D. EXPANDED CLINICAL INDICATIONS, AND E. AVAILABILITY. UTILIZATION MANAGEMENT REPRESENTS AN IMPORTANT OPPORTUNITY FOR RADIOLOGISTS TO BE INVOLVED IN THE DECISION MAKING PROCESS, REGULATING THE USE OF THEIR SERVICES, AND PROVIDING FAST FEEDBACK TO OTHER SPECIALTIES THAT RELY ON IMAGING AS A COMPLEMENT TO THEIR CLINICAL PRACTICE. STRATEGIES FOR MANAGING IMAGING UTILIZATION. IMAGING REPRESENTS A SUBSTANTIAL AND GROWING PORTION OF THE COSTS OF AMERICAN HEALTH CARE WHEN PERFORMED CORRECTLY, AND FOR THE RIGHT REASONS. MEDICAL IMAGING FACILITATES QUALITY MEDICAL CARE THAT BRINGS VALUE TO BOTH PATIENTS AND PAYERS. OVER THE TEN YEAR PERIOD STUDIED, ULTRASOUND INCREASED BY NEARLY 40 PERCENT, CT DOUBLED, AND MRI NEARLY TRIPLED. UTILIZATION OF NM EXAMINATIONS REMAINED STABLE, VARYING BETWEEN THIRTY TWO AND THIRTY FIVE IMAGING TESTS PER THOUSAND PATIENTS PER YEAR, WITH NO TEMPORAL TREND. RADIOLOGY IS THE FIELD OF MEDICINE THAT USES IMAGING TECHNIQUES SUCH AS X RAYS TO DIAGNOSE, CHARACTERIZE, OR MONITOR DISEASE. MEDICAL DOCTORS WHO SPECIALIZE IN RADIOLOGY ARE CALLED RADIOLOGISTS. RADIOLOGY CAN PROVIDE EVIDENCE OF AN INJURY, INFECTION, OR DISEASE THAT CANNOT BE SEEN WITHOUT AN INVASIVE PROCEDURE. IMAGING HAS CONTRIBUTED SIGNIFICANTLY TO MEDICAL PRACTICE BY HELPING TO DIAGNOSE AND TREAT DISEASE, BUT THERE IS GROWING CONCERN ABOUT OVERUTILIZATION AND INAPPROPRIATE USE OF IMAGING, CREATING WASTE AND POTENTIAL HARM, SUCH AS EXPOSING PATIENTS TO UNNECESSARY IONIZING RADIATION.^{3, 4} WHICH HAS BEEN SHOWN TO BE ASSOCIATED WITH CANCER.⁵ ALTHOUGH SCIENTISTS HAVE ONLY KNOWN ABOUT RADIATION SINCE THE 1890S, THEY HAVE DEVELOPED A WIDE VARIETY OF USES FOR THIS NATURAL FORCE. TODAY TO BENEFIT HUMANKIND, RADIATION IS USED IN MEDICINE, ACADEMICS, AND INDUSTRY, AS WELL AS FOR GENERATING ELECTRICITY. INCREASED UTILIZATION OF MEDICAL IMAGING IN THE EARLY PART OF THE LAST DECADE HAS RESULTED IN NUMEROUS EFFORTS TO REDUCE ASSOCIATED SPENDING. RECENT INITIATIVES HAVE FOCUSED ON MANAGING UTILIZATION WITH RADIOLOGY. BENEFITS MANAGERS AND REAL TIME ORDER ENTRY DECISION SUPPORT SYSTEMS. CT INDICATES COMPUTED TOMOGRAPHY, MRI MAGNETIC RESONANCE IMAGING. ALL US DATA ARE SHOWN AS SOLID CURVES, ONTARIO DATA ARE SHOWN AS DASHED CURVES. CHILDREN ARE AGED 18 YEARS, ADULTS 18 TO 64 YEARS, AND OLDER ADULTS 65 YEARS. SEE TABLE 3 FOR RELATIVE RATES OF IMAGING FOR UNITED STATES COMPARED WITH ONTARIO. FIGURE 3 ABSTRACT. PREVIOUS GROWTH IN THE UTILIZATION OF MEDICAL IMAGING HAS LED TO NUMEROUS EFFORTS TO REDUCE ASSOCIATED SPENDING. ALTHOUGH THESE HAVE HISTORICALLY BEEN DIRECTED TOWARD UNIT COST REDUCTIONS, RECENT INTEREST HAS EMERGED BY VARIOUS STAKEHOLDERS IN CURBING INAPPROPRIATE UTILIZATION. TODAY THANKS TO HIGH TECH DEVICES LIKE COMPUTER TOMOGRAPHY, CT, MAGNETIC RESONANCE IMAGING, MRI, AND ULTRASOUND, A NONINVASIVE GLIMPSE INTO THE HUMAN INTERIOR HAS BEEN MADE POSSIBLE. THESE RECENT DEVELOPMENTS HAVE REVOLUTIONIZED HOW DOCTORS SEE ANATOMY. WHEN USING DIGITAL RADIOGRAPHY, PROCEDURES SHOULD BE ESTABLISHED FOR IDENTIFYING AND ANALYZING ALL IMAGES THAT WERE REPEATED BECAUSE OF PROBLEMS WITH QUALITY POSITIONING, ETC. THIS INFORMATION SHOULD BE USED FOR TRAINING AND GUIDANCE TO REDUCE THE NEED FOR REPEATED EXPOSURES. RADIO THERAPY. IONISING RADIATION IS USED IN MEDICINE IN 3 WAYS. DIAGNOSTIC RADIOLOGY WHICH USES X RAY MACHINES TO OBTAIN IMAGES OF THE INSIDE OF THE PATIENT'S BODY. NUCLEAR MEDICINE WHICH USES RADIATION THERAPY. KILLS CANCER CELLS, SHRINKS TUMORS, AND RELIEVES CANCER SYMPTOMS. IT MAY BE YOUR ONLY TREATMENT OR IT MAY BE USED TO SHRINK TUMORS BEFORE OTHER CANCER TREATMENTS LIKE SURGERY. NEO ADJUVANT THERAPY DESTROY ANY REMAINING CANCER CELLS AFTER SURGERY. ADJUVANT THERAPY KILL CANCER CELLS THAT RETURN AFTER PREVIOUS TREATMENT.

UTILIZATION OF RADIOLOGY SERVICES IN THE UNITED STATES

MAY 13 2024

ON AVERAGE BETWEEN 1998 AND 2001 UTILIZATION PER MEDICARE ENROLLEE INCREASED 16 PER YEAR FOR MR IMAGING AND 7.15 PER YEAR FOR CT US INTERVENTIONAL RADIOLOGY AND NUCLEAR MEDICINE WHILE THAT FOR RADIOGRAPHY INCREASED 1 PER YEAR

UTILIZATION MANAGEMENT IN RADIOLOGY BASIC CONCEPTS AND

APR 12 2024

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MAR 11 2024

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UTILIZATION MANAGEMENT IN RADIOLOGY PART 1 RATIONALE

FEB 10 2024

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ACR APPROPRIATENESS CRITERIA AMERICAN COLLEGE OF RADIOLOGY

JAN 09 2024

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TRENDS IN DIAGNOSTIC IMAGING UTILIZATION AMONG MEDICARE AND

DEC 08 2023

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WHAT CAUSES INCREASING AND UNNECESSARY USE OF RADIOLOGICAL

Nov 07 2023

THE HIGHEST RATED CAUSES OF INCREASING USE OF RADIOLOGICAL INVESTIGATIONS WERE A NEW RADIOLOGICAL TECHNOLOGY B PEOPLES DEMANDS C CLINICIANS INTOLERANCE FOR UNCERTAINTY D EXPANDED CLINICAL INDICATIONS AND E AVAILABILITY

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Oct 06 2023

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STRATEGIES FOR MANAGING IMAGING UTILIZATION JOURNAL OF THE

SEP 05 2023

STRATEGIES FOR MANAGING IMAGING UTILIZATION IMAGING REPRESENTS A SUBSTANTIAL AND GROWING PORTION OF THE COSTS OF AMERICAN HEALTH CARE WHEN PERFORMED CORRECTLY AND FOR THE RIGHT REASONS MEDICAL IMAGING FACILITATES QUALITY MEDICAL CARE THAT BRINGS VALUE TO BOTH PATIENTS AND PAYERS

RISING USE OF DIAGNOSTIC MEDICAL IMAGING IN A LARGE

AUG 04 2023

OVER THE TEN YEAR PERIOD STUDIED ULTRASOUND INCREASED BY NEARLY 40 PERCENT CT DOUBLED AND MRI NEARLY TRIPLED UTILIZATION OF NM EXAMINATIONS REMAINED STABLE VARYING BETWEEN THIRTY TWO AND THIRTY FIVE IMAGING TESTS PER THOUSAND PATIENTS PER YEAR WITH NO TEMPORAL TREND

RADIOLOGY TYPES USES PROCEDURES AND MORE VERYWELL HEALTH

JUL 03 2023

RADIOLOGY IS THE FIELD OF MEDICINE THAT USES IMAGING TECHNIQUES SUCH AS X RAYS TO DIAGNOSE CHARACTERIZE OR MONITOR DISEASE MEDICAL DOCTORS WHO SPECIALIZE IN RADIOLOGY ARE CALLED RADIOLOGISTS RADIOLOGY CAN PROVIDE EVIDENCE OF AN INJURY INFECTION OR DISEASE THAT CANNOT BE SEEN WITHOUT AN INVASIVE PROCEDURE

INPATIENT IMAGING UTILIZATION TRENDS OF THE PAST DECADE AJR

JUN 02 2023

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USES OF RADIATION NRC GOV

MAY 01 2023

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UTILIZATION MANAGEMENT IN RADIOLOGY PART 2 PERSPECTIVES AND

MAR 31 2023

INCREASED UTILIZATION OF MEDICAL IMAGING IN THE EARLY PART OF THE LAST DECADE HAS RESULTED IN NUMEROUS EFFORTS TO REDUCE ASSOCIATED SPENDING RECENT INITIATIVES HAVE FOCUSED ON MANAGING UTILIZATION WITH RADIOLOGY BENEFITS MANAGERS AND REAL TIME ORDER ENTRY DECISION SUPPORT SYSTEMS

TRENDS IN USE OF MEDICAL IMAGING IN US HEALTH CARE SYSTEMS

FEB 27 2023

CT INDICATES COMPUTED TOMOGRAPHY MRI MAGNETIC RESONANCE IMAGING ALL US DATA ARE SHOWN AS SOLID CURVES ONTARIO DATA ARE SHOWN AS DASHED CURVES CHILDREN ARE AGED 18 YEARS ADULTS 18 TO 64 YEARS AND OLDER ADULTS 65 YEARS SEE TABLE 3 FOR RELATIVE RATES OF IMAGING FOR UNITED STATES COMPARED WITH ONTARIO FIGURE 3

UTILIZATION MANAGEMENT IN RADIOLOGY PART 1 RATIONALE

JAN 29 2023

ABSTRACT PREVIOUS GROWTH IN THE UTILIZATION OF MEDICAL IMAGING HAS LED TO NUMEROUS EFFORTS TO REDUCE ASSOCIATED SPENDING ALTHOUGH THESE HAVE HISTORICALLY BEEN DIRECTED TOWARD UNIT COST REDUCTIONS RECENT INTEREST HAS EMERGED BY VARIOUS STAKEHOLDERS IN CURBING INAPPROPRIATE UTILIZATION

EXTENT OF UTILIZATION OF RADIOLOGIC IMAGES IN GROSS ANATOMY

DEC 28 2022

TODAY THANKS TO HIGH TECH DEVICES LIKE COMPUTER TOMOGRAPHY CT MAGNETIC RESONANCE IMAGING MRI AND ULTRASOUND A NONINVASIVE GLIMPSE INTO THE HUMAN INTERIOR HAS BEEN MADE POSSIBLE THESE RECENT DEVELOPMENTS HAVE REVOLUTIONIZED HOW DOCTORS SEE ANATOMY

GOOD PRACTICES IN RADIOGRAPHY IAEA

Nov 26 2022

WHEN USING DIGITAL RADIOGRAPHY PROCEDURES SHOULD BE ESTABLISHED FOR IDENTIFYING AND ANALYZING ALL IMAGES THAT WERE REPEATED BECAUSE OF PROBLEMS WITH QUALITY POSITIONING ETC THIS INFORMATION SHOULD BE USED FOR TRAINING AND GUIDANCE TO REDUCE THE NEED FOR REPEATED EXPOSURES

MEDICAL RADIATION USES DOSE MEASUREMENTS AND SAFETY ADVICE

OCT 26 2022

RADIOTHERAPY IONISING RADIATION IS USED IN MEDICINE IN 3 WAYS DIAGNOSTIC RADIOLOGY WHICH USES X RAY MACHINES TO OBTAIN IMAGES OF THE INSIDE OF THE PATIENT S BODY NUCLEAR MEDICINE WHICH USES

RADIATION THERAPY FOR CANCER HOW DOES IT WORK

SEP 24 2022

RADIATION THERAPY KILLS CANCER CELLS SHRINKS TUMORS AND RELIEVES CANCER SYMPTOMS IT MAY BE YOUR ONLY TREATMENT OR IT MAY BE USED TO SHRINK TUMORS BEFORE OTHER CANCER TREATMENTS LIKE SURGERY NEO ADJUVANT THERAPY DESTROY ANY REMAINING CANCER CELLS AFTER SURGERY ADJUVANT THERAPY KILL CANCER CELLS THAT RETURN AFTER PREVIOUS TREATMENT

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