

Radiography Positioning Guide

Brought to you by IDEXX Diagnostic Imaging and IDEXX Telemedicine Consultants



Tips

- Take at least two views of each anatomic region—remember, you're capturing a three-dimensional object.
- Center the x-ray beam directly over the area of interest.
- Visualize how the image would look on a monitor. Move the patient and position the area of interest along the long axis of your collimated field, rather than rotating the extremity.

- Collimate to the area of interest to reduce scatter radiation and improve image quality.
- Be safe—always use protective lead gloves, aprons, and thyroid shields to protect yourself from scatter radiation, stay as far away as possible from the primary x-ray beam, and use positioning devices.
- Use a well-defined system of exposure determination, such as a technique chart based on published exposure values, for accurate, repeatable, and optimal exposures. Include lateral markers.

Thorax



Lateral thorax

Position animal in lateral recumbency. Rotate thorax dorsally. Extend head limbs, but do not rotate patient. Collimate collimator centrally to top of last rib. Place extremity of paw over chest.

Abdomen



Lateral abdomen

Position animal as for lateral thorax, but center on middle of last rib. Exception: For cats and brachycephals, last 2 ribs past last rib.

Key

- Anesthesia required
- Anesthesia or heavy sedation suggested

Skull



Lateral skull



Dorsocentral skull



Buccal, open mouth



Temporomandibular oblique



Ventrodorsal maxilla, open mouth
Skull is opened, with horizontal maxilla table surface. Put mandible caudally and center it. Secure anteroposterior tubes anteriorly to center of maxilla or just the tube and output caudally to one side of the maxilla. Angle x-ray beam 30° from perpendicular (if possible).

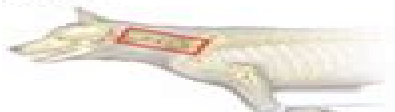


Frontal sinus view
Position mandible perpendicular to table surface with maxilla pointing straight up.



Buccal/other oblique
Rotate the mandible up or down depending on the area of interest. The larger image depicts positioning for buccal and maxilla. The smaller image indicates positioning for frontal bone and maxilla.

Spine



Lateral cervical spine



Lateral thoracic spine



Ventrodorsal cervical spine



Lateral lumbar spine

Shoulder and front limbs



Lateral shoulder
Limb to be imaged must be down and extension complete and vertical. Put opposite limb caudally and ventrally just over the back.

Lateral elbow

Lateral carpus



Craniocaudal elbow

Dorsopalmar carpus



Caudocranial shoulder

Pelvis and hind limbs



Ventrodorsal pelvis



Caudocranial stifle



Lateral stifle

Lateral tarsus



Oblique lateral digits

Positioning In Radiography

**Richard R. Carlton, Arlene McKenna
Adler, Eugene D. Frank**

Positioning In Radiography:

Clark's Positioning in Radiography 13E A. Stewart Whitley, Gail Jefferson, Ken Holmes, Charles Sloane, Craig Anderson, Graham Hoadley, 2015-07-28 First published in 1939 Clark's Positioning in Radiography is the preeminent text on positioning technique for diagnostic radiographers Whilst retaining the clear and easy to follow structure of the previous edition the thirteenth edition includes a number of changes and innovations in radiographic technique The text has been extensively updated

Clark's Positioning in Radiography 12Ed A. Stewart Whitley, Charles Sloane, Graham Hoadley, Adrian D. Moore, 2005-08-26 First published in 1939 this is the definitive text on patient positioning for the diagnostic radiography student and practitioner The experienced author team appreciates that there is no substitute for a good understanding of basic skills in patient positioning and an accurate knowledge of anatomy to ensure good radiographic practice This 12th edition retains the book's pre-eminence in the field with hundreds of positioning photographs and explanatory line diagrams a clearly defined and easy to follow structure and international applicability The book presents the essentials of radiographic techniques in a practical way avoiding unnecessary technical complexity and ensuring that the student and practitioner can find quickly the information that they require regarding particular positions All the standard positioning is included accompanied by supplementary positions where relevant and illustrations of pathology where appropriate Common errors in positioning are also discussed

Radiographic Positioning Ronald L. Eisenberg, Cynthia A. Dennis, Chris R. May, 1995 This is a guide to positioning the patient for x ray It is organized by body part and features photographs of the patient in the x ray position the x rays themselves and anatomic line drawings of the body part featured The text highlights important aspects of each procedure and includes hints to assist the radiographer in achieving the best results

Positioning in Radiography Kathleen Clara Clark, 1973

Textbook of Radiographic Positioning and Related Anatomy - E-Book Kenneth L. Bontrager, John Lampignano, 2013-08-07 Focusing on one projection per page Textbook of Radiographic Positioning and Related Anatomy 8th Edition includes all of the positioning and projection information you need to know in a clear bulleted format Positioning photos radiographs and anatomical images along with projection and positioning information help you visualize anatomy and produce the most accurate images With over 200 of the most commonly requested projections this text includes all of the essential information for clinical practice Lists and definitions of the most common pathologies likely to be encountered during specific procedures helps you understand the whole patient and produce radiographs that will make diagnosis easier for the physician Labeled radiographs identify key radiographic anatomy and landmarks to help you determine if you have captured the correct diagnostic information on your images Evaluation Criteria for each projection provide standards for evaluating the quality of each radiograph and help you produce the highest quality images Clinical Indications sections explain why a projection is needed or what pathology is demonstrated to give you a better understanding of the reasoning behind each projection Increased emphasis on digital radiography keeps

you up to date with the most recent advances in technology Completely updated content offers expanded coverage of important concepts such as digital imaging systems updated CT information and AART exam requirements More CT procedures with related sectional images especially for areas such as skull and facial bones reflect the shift in the field from conventional radiography to CT Updated art visually demonstrates the latest concepts and procedures with approximately 500 new positioning photos and 150 updated radiographic images Additional critique images provide valuable experience analyzing images to prepare you to evaluate your own images in the practice environment Updated Technique and Dose boxes reflect the higher kV now recommended for computed and digital radiography Imaging Wisely program information from ASRT provides protocols to minimize radiation exposure during digital procedures The latest standards for computed radiography and digital radiography CR DR from the American Association of Physicists in Medicine ensures you are current with today s procedures and modalities [Textbook of Radiographic Positioning & Related Anatomy - Pageburst E-Book on VitalSource](#) Kenneth L Bontrager,John Lampignano,2013-02-08 Lists and definitions of the most common pathologies likely to be encountered during specific procedures helps you understand the whole patient and produce radiographs that will make diagnosis easier for the physician Labeled radiographs identify key radiographic anatomy and landmarks to help you determine if you have captured the correct diagnostic information on your images Evaluation Criteria for each projection provide standards for evaluating the quality of each radiograph and help you produce the highest quality images Clinical Indications sections explain why a projection is needed or what pathology is demonstrated to give you a better understanding of the reasoning behind each projection Increased emphasis on digital radiography keeps you up to date with the most recent advances in technology Completely updated content offers expanded coverage of important concepts such as digital imaging systems updated CT information and AART exam requirements More CT procedures with related sectional images especially for areas such as skull and facial bones reflect the shift in the field from conventional radiography to CT Updated art visually demonstrates the latest concepts and procedures with approximately 500 new positioning photos and 150 updated radiographic images Additional critique images provide valuable experience analyzing images to prepare you to evaluate your own images in the practice environment Updated Technique and Dose boxes reflect the higher kV now recommended for computed and digital radiography Imaging Wisely program information from ASRT provides protocols to minimize radiation exposure during digital procedures The latest standards for computed radiography and digital radiography CR DR from the American Association of Physicists in Medicine ensures you are current with today s procedures and modalities [Clark's Positioning in Radiography](#) Kathleen Clara Clark,R. A. Swallow,1986 [Principles of Radiographic Imaging](#) Richard R. Carlton,Arlene McKenna Adler,Eugene D. Frank,2006 Accompanied CD ROM provides review and practice through quizzes and games such as concentration hangman crossword puzzles and more **Radiographic Positioning** Olive Peart,2021-05-03 This text offers a comprehensive overview of routine imaging procedures and positioning terminology

in diagnostic imaging Also included is a summary of patient care in radiology infection control patient communication and digital technology Each projection file includes an image of the actual position with the corresponding labeled radiograph plus technical information on patient positioning shielding body part position and rotation central ray angulation point of entry structures demonstrated and image evaluation Great for use by student technologists during ARRT registry review or as a refresher for practicing x ray technologist

Basic Radiographic Positioning and Anatomy Geoffrey A. Bell, David B. L. Finlay, 1986 Provides fundamental knowledge of positioning for the production of skeletal radiographs as well as an understanding of related anatomy Well designed the book consists of radiographs of the entire body presented in double page spreads

Dennis, C.A., Posiciones radiográficas ©1996 Últ. Reimpr. 2005 Cynthia A. Dennis, Chris R. May, Ronald L. Eisenberg, 2002

Pocketbook of Radiographic Positioning Ruth Sutherland, Gary Bown, 2003 This pocketbook is a practical guide to the wide variety of radiographic projections that are commonly encountered in a clinical environment It provides clear and concise advice on how to approach radiographic positioning and technique both efficiently and effectively Particular emphasis is placed on the importance of achieving the best possible image with the minimum exposure The routine examinations are dealt with by region in a systematic way and have the same easy to use format throughout For each projection there is a patient position photograph and an accompanying radiograph to ensure that the required result of the examination has been achieved New size and layout to assist easy reference Includes over 200 quality photographs and radiographs Gives simple hints to aid positioning Highlights common errors to be avoided both in the examination and radiological assessments Indicates susceptible areas of trauma or pathology

Bontrager's Handbook of Radiographic Positioning and Techniques - E-BOOK John Lampignano, Leslie E. Kendrick, 2017-02-10 This pocket sized Handbook for Lampignano and Kendrick s text has it all new radiographic images revised critiques and more Bontrager s Handbook of Radiographic Positioning and Techniques 9th Edition provides bulleted instructions along with photos of properly positioned patients to help you safely and confidently position for the most commonly requested radiographic studies Suggested techniques and critique points offer a quick reference for evaluating your own radiographs making it an invaluable tool for learning radiographic positioning in clinical settings Positioning chapters organized with one projection per page to present a snapshot of information in an easily accessible and portable format Unique page layout positioning photos and radiographic images are presented on the same page with the text explanation of each procedure to show you how the patient should be positioned and what the image should look like Page number references for the text are included at the bottom of each positioning page so you can easily refer to the text for greater detail and explanation concerning a particular position 217 projections positions and 4 conversion charts provide the essential information needed for quick reference Positioning presentations include positioning instructions as well as Collimation guidelines for each projection Suggested starting exposure factors including kVp mAs SID source image receptor distance type and speed of film and

screens use of grids and large or small focal spot Suggested AEC automatic exposure control pick up cell location when photo timed equipment can be used Space for writing in exposure factors techniques for specific equipment being used This quick review of information before beginning a procedure helps assure you that the exam is being correctly performed with the least possible patient dose Appendices offer additional quick reference information on patient dose abbreviations and acronyms and various conversion charts enabling you to locate important information quickly NEW Technique chart updates reflect the latest recommendations for computed and digital radiography UPDATED New positioning photos reflect the latest equipment and demonstrate proper positioning UPDATED New radiographic images and revised critiques provide examples using the latest technology and ensure that you are ready to evaluate your own images EXPANDED New position added on Apical AP axial give you information and photographs on this position

Clark's Positioning in Radiography Kathleen Clara Clark, 1979 [Pocket Atlas of Radiographic Positioning](#) Torsten Bert Moeller, Emil Reif, 2011-01-01 Praise for this book Remarkable a valuable easy to use desk or pocket reference for medical imaging professionals at every level ADVANCE for Imaging Radiation Oncology Now in its second edition Pocket Atlas of Radiographic Positioning is a practical how to guide that provides the detailed information you need to reproducibly obtain high quality radiographic images for optimal evaluation and interpretation of normal abnormal and pathological anatomic findings It shows positioning techniques for all standard examinations in conventional radiology with and without contrast as well as basic positioning for CT and MRI For each type of study a double page spread features an exemplary radiograph positioning sketches and helpful information on imaging technique and parameters criteria for the best radiographic view and patient preparation Clearly organized to be used in day to day practice the atlas serves as an ideal companion to Moeller and Reif s Pocket Atlas of Radiographic Anatomy and their three volume Pocket Atlas of Cross Sectional Anatomy Highlights of the second edition New chapters on positioning in MRI and CT including multislice CT A greatly expanded section on mammography Special features including information on the advantages of a specific view variations of positions and practical tips and tricks Nearly 500 excellent radiographs and drawings demonstrating the relationship between correct patient positioning and effective diagnostic images Pocket Atlas of Radiographic Positioning Second Edition is an excellent desk or pocket reference for radiologists radiology residents and for radiologic technologists

Merrill's Atlas of Radiographic Positioning and Procedures - E-Book Eugene D. Frank, Bruce W. Long, Barbara J. Smith, 2013-08-13 With more than 400 projections presented Merrill s Atlas of Radiographic Positioning and Procedures remains the gold standard of radiographic positioning texts Authors Eugene Frank Bruce Long and Barbara Smith have designed this comprehensive resource to be both an excellent textbook and also a superb clinical reference for practicing radiographers and physicians You ll learn how to properly position the patient so that the resulting radiograph provides the information needed to reach an accurate diagnosis Complete information is included for the most common projections as well as for those less commonly requested Comprehensive

coverage of anatomy and positioning makes Merrill's Atlas the most in depth text and reference available for radiography students and practitioners. Essential projections that are frequently performed are identified with a special icon to help you focus on what you need to know as an entry level radiographer. Full color presentation helps visually clarify key concepts. Summaries of pathology are grouped in tables in positioning chapters for quick access to the likely pathologies for each bone group or body system. Special chapters including trauma, surgical radiography, geriatrics, pediatrics, and bone densitometry help prepare you for the full scope of situations you will encounter. Exposure technique charts outline technique factors to use for the various projections in the positioning chapters. Projection summary tables at the beginning of each procedural chapter offer general chapter overviews and serve as handy study guides. Bulleted lists provide clear instructions on how to correctly position the patient and body part. Anatomy summary tables at the beginning of each positioning chapter describe and identify the anatomy you need to know in order to properly position the patient, set exposures, and take high quality radiographs. Anatomy and positioning information is presented in separate chapters for each bone group or organ system, all heavily illustrated in full color and augmented with CT scans and MRI images to help you learn both traditional and cross sectional anatomy. Includes a unique new section on working with and positioning obese patients. Offers coverage of one new compensating filter. Provides collimation sizes and other key information for each relevant projection. Features more CT and MRI images to enhance your understanding of cross sectional anatomy and prepare you for the Registry exam. Offers additional digital images in each chapter including stitching for long length images of the spine and lower limb. Standardized image receptor sizes use English measurements with metric in parentheses. Depicts the newest equipment with updated photographs and images.

Textbook of Radiographic Positioning and Related Anatomy Kenneth L. Bontrager, 1993

Bontrager's Handbook of Radiographic Positioning and Techniques John Lampignano, MEd, RT(R) (CT), Leslie E. Kendrick, 2020-11-02. Get on the spot guidance for all the types of positioning you'll need to perform during clinicals with Bontrager's Handbook of Radiographic Positioning and Techniques 10th Edition. With bulleted instructions and photos of properly positioned patients, this portable and pocket sized reference can help you safely, quickly, and confidently position for the most commonly requested radiographic studies. Plus, this must-have radiographic positioning and anatomy handbook also provides suggested techniques and critique points to help you quickly and easily evaluate your own radiographs as you produce them in clinicals. 217 projections provide a snapshot of essential information in an easily accessible and portable format. Standard radiographic image and evaluation criteria are presented on each positioning page, demonstrating critical anatomy and a list for critique. Page number references for the text are included at the bottom of each positioning page to help you easily move back and forth between the text for greater detail and explanation concerning a particular position. Positioning presentations include positioning instructions, collimation field size, CR location and CR angle, suggested kVp ranges, space for writing in exposure factors, and more. Appendices offer additional quick reference information on patient

dose abbreviations and acronyms and various conversion charts enabling you to locate important information quickly NEW Updated photographs visually demonstrate the latest digital technology used in radiography with new radiographs positioning and equipment images NEW Updated content reflecting the latest ARRT competencies prepares you for boards and clinical practice NEW Additional Bernageau and Zanca projections offer guidance on these important projections performed for shoulder pathology and trauma *Merrill's Atlas of Radiographic Positioning and Procedures* Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-02-25 More than 400 projections make it easier to learn anatomy properly position the patient set exposures and take high quality radiographs With Merrill's Atlas of Radiographic Positioning Procedures 13th Edition you will develop the skills to produce clear radiographic images to help physicians make accurate diagnoses It separates anatomy and positioning information by bone groups or organ systems using full color illustrations to show anatomical anatomy and CT scans and MRI images to help you learn cross section anatomy Written by radiologic imaging experts Bruce Long Jeannean Hall Rollins and Barbara Smith Merrill's Atlas is not just the gold standard in radiographic positioning references and the most widely used but also an excellent review in preparing for ARRT and certification exams UNIQUE Collimation sizes and other key information are provided for each relevant projection Comprehensive full color coverage of anatomy and positioning makes Merrill's Atlas the most in depth text and reference available for radiography students and practitioners Coverage of common and unique positioning procedures includes special chapters on trauma surgical radiography geriatrics pediatrics and bone densitometry to help prepare you for the full scope of situations you will encounter Numerous CT and MRI images enhance your comprehension of cross sectional anatomy and help you prepare for the Registry examination Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures Summary tables provide quick access to projection overviews guides to anatomy pathology tables for bone groups and body systems and exposure technique charts Frequently performed projections are identified with a special icon to help you focus on what you need to know as an entry level radiographer NEW Coverage of the latest advances in digital imaging also includes more digital radiographs with greater contrast resolution of pertinent anatomy NEW positioning photos show current digital imaging equipment and technology UPDATED coverage addresses contrast arthrography procedures trauma radiography practices plus current patient preparation contrast media used and the influence of digital technologies UPDATED Pediatric Imaging chapter addresses care for the patient with autism strategies for visit preparation appropriate communication and environmental considerations UPDATED Mammography chapter reflects the evolution to digital mammography as well as innovations in breast biopsy procedures UPDATED Geriatric Radiography chapter describes how to care for the patient with Alzheimer's Disease and other related conditions *Lange Radiographic Positioning Flashcards* Olive Peart, 2014-06-24 A comprehensive carry anywhere review of routine imaging procedures projections and positioning terminology Each two sided card includes a high quality photograph

of correct patient positioning with details of the projection and the corresponding X ray technical information and image evaluation criteria Most cards include a high resolution radiographic image and photographs demonstrating each position projection Great for use as a radiography procedures course review or as a clinical refresher prior to taking a patient s X ray

Positioning In Radiography Book Review: Unveiling the Power of Words

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