

It has been one year since the sudden death of Dr. Ed Maurer. Dr. Maurer was a man with vision. He was sincerely committed to the registry-from the day he started work on developing it to the day of his passing. He left behind a great legacy. We will all work hard to keep it going. He truly is missed.



Newly appointed Executive Vice President

It is a great pleasure to introduce Dr. Larry Pyzik as the new Executive Vice President of the registry. Since his graduation from the National College of Chiropractic he earned his diplomate to the American Chiropractic Board of Radiology. Dr. Pyzik has been very active in the field of radiology. While serving on the board he served as the secretary-treasurer of the Chiropractic Board of Radiology and later as the Secretary-Treasurer of the Council on Diagnostic Imaging. He has also been active in the Chiropractic profession serving as the American Chiropractic Association's Northern Illinois delegate. He currently serves as an officer and chairman of several committees in the Illinois Chiropractic Society. Since becoming the Executive Vice President of the ACRRT he has worked hard to re-organize various aspects and up date the tests and SIRS. When he is not busy with his vast involvement in Chiropractic Dr. Pyzik has been known to go fishing and hunting. His enthusiasm will bring new life and many changes to the registry.

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Quality Control

Quality control involves the regular monitoring of x-ray and processing equipment as well as ancillary equipment.

The objectives of quality control are as follows:

1. To decrease the dose to the patient so that as much as possible the potential benefit outweighs the potential risk. (ALARA)
2. To increase the quality of the diagnostic information obtained.
3. To minimize repeat films which saves film, chemicals and time- in other words its SAVES MONEY.

At minimum, a quality control program involves doing the following:

1. Proper care and storage of film (upright not flat).
2. Checking the darkroom for light leaks.
3. Maintaining the automatic processor as the manufacturer recommends and monitoring its function.
4. Regular cleaning of screens.
5. Checking screen-film contact.
6. Checking beam alignment.
7. Timer accuracy.
8. kVp accuracy.
9. mA accuracy.
10. Beam quality.

Technology Tidbits

Virtual Colonoscopy Not As Sensitive As Originally Thought

When it comes to detecting colorectal polyps, virtual colonoscopy is no substitute for a standard colonoscopy.

Virtual colonoscopy, also known as CT colonography, produces 2-D and 3-D images of the entire colorectal region and has shown good sensitivity in patients with a high number of colorectal lesions. However, when researchers studied the technique in 703 patients with low lesion prevalence, the technique's sensitivity was as low as 32 percent for larger polyps and 29 percent for smaller polyps.

"CT colonography was less sensitive in detecting polyps than would have been predicted from earlier studies in cohorts with a higher prevalence of polyps," said C. Daniel Johnson, M.D. and colleagues at the Mayo Clinic in Rochester, MN. The study appeared in the August issue of *Gastroenterology*. Despite its low sensitivity, Dr. Johnson reported that CT colonography has desirable characteristics as a screening test, including high specificity, or ability to distinguish polyps from other results.

Ultrasound Technique Destroys Uterine Fibroids

A new ultrasound technique destroys uterine fibroids without causing significant pain or side effects in patients.

Focused ultrasound surgery, or FUS, is the first noninvasive technique that can destroy uterine fibroids through ablation, or heat, without damaging surrounding healthy tissue, according to researchers. Magnetic resonance and MR thermal mapping accurately monitor the location and extent of treatment.

Researchers recently tested FUS on 55 women with uterine fibroids and found that patients tolerated the procedure well, with only 14 percent of women reporting pain and abdominal tenderness, according to study author Elizabeth Stewart, M.D.

ACRRT

American Chiropractic Registry of Radiologic Technologists.

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Advertising rates on request

Recertification Program

While prior approval of all programs is required, it is impossible for us to maintain all dates, places and faculty of all program presentations. It is suggested that for information on programs available in your area that you contact the state chiropractic association, or the nearest chiropractic college.

Applications for programs approval are being received nearly on a daily basis. All dates of presentations are subject to change. A partial list is offered here for your perusal.

2004

April 17-18, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

May 1-2, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

May 1-2, 2004 Wisconsin Chiro. Assn.
Madison, WI Rachel Schraufnagel
(TEST)

August 21-22, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

September 11-12, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

September 25-26, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

October 9-10, 2004
Madison, WI Wisconsin Chiro. Assn.
(12 Hours) Rachel Schraufnagel

October 9-10, 2004
Madison, WI Wisconsin Chiro. Assn.
(Test) Rachel Schraufnagel

QUIZ CORNER

1) What is the name of the path over which electric current flows:

- a. Potential
- b. Transmitter
- c. Circuit
- d. Resistance

2) The unit of potential difference is called the:

- a. Coulomb
- b. Watt
- c. Ampere
- d. Volt

3) The portion of the X-ray tube consisting of a metal filament the emits electrons when heated is the:

- a. Housing
- b. Cathode
- c. Anode
- d. Target

4) Rectification refers to the:

- a. Changing of alternating into a direct current
- b. Increase of voltage in a circuit
- c. Control of transformer loss
- d. None of the above

5) Roentgen rays travel at the same constant speed as:

- a. Sound
- b. Air
- c. Light
- d. All the above

6) Technique charts should be formulated:

- a. With awareness of V k limitation of the grid
- b. Are always applicable to any patient
- c. Must be corrected to suit the pathology of the patient
- d. A and C

7) The accuracy of the lateral view of the arm or elbow is shown by superimposition of the:

- a. Epicondyles of the humerus
- b. Tuberosities of the humerus
- c. Olecranon and radial head
- d. Radius and ulna

8) In the AP projection of the cervical spine, the patient's chin should be extended so as to prevent:

- a. Superimposition of the mandible and the mid-cervical segments
- b. Motion
- c. Superimposition of the sternum and the mid-cervical segments
- d. Respiration

9) To better define the intervertebral spaces in the AP projection of the cervical spine, the central ray is angled:

- a. 45 degrees toward the feet
- b. 15-20 degrees toward the feet
- c. 45 degrees toward the head
- d. 75 degrees toward the head

10) To obtain oblique views of the sacroiliac joints, the body is rotated:

- 1) 5 degrees
- 2) 25 degrees
- 3) 60 degrees
- 4) 75 degrees

Blood Test May Spot Breast Cancer

A recent study led jointly by Duke University, the M.D. Anderson Cancer Center in Houston, the U.S. Food and Drug Administration and the National Institutes of Health found that a simple blood-protein test may be nearly as effective as mammograms in spotting breast cancer, reported Health magazine in a recent issue.

The exam is still one and a half to three years away from FDA approval, but it someday may replace routine screening for healthy women and be used alongside mammograms for those at high risk, the magazine reported.

High-risk patients include those who previously have been treated for breast cancer, have a first degree relative with breast cancer, have the BRCA 1 or 2 gene or have been diagnosed with a benign lesion that can be a precursor to breast cancer.

Answers:

1-c, 2-d, 3-b, 4-a, 5-c, 6-d, 7-a, 8-a, 9-d, 10-b

Call for Questions

This year we are implementing a program by which you can earn credit by submitting exam questions. For every five accepted questions you can earn one continuing education credit. Each question must have four answers. All of the above and none of the above cannot be used. A reference must be included. The topics include 1. Physics and equipment. 2. Principle of radiographic exposure. 3. Radiation protection. 4. Anatomy and physiology. 5. Radiographic positioning and procedures.

Send your questions to:

Dr. Larry Pyzik
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Palatine, IL 60067-5048

STUDY GUIDE AVAILABLE

Guides can be purchased for \$44.95 plus \$5.00 for shipping and handling through the ACRRT office (269) 343-6666.



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