

The Rotating Anode

SPRING 2020

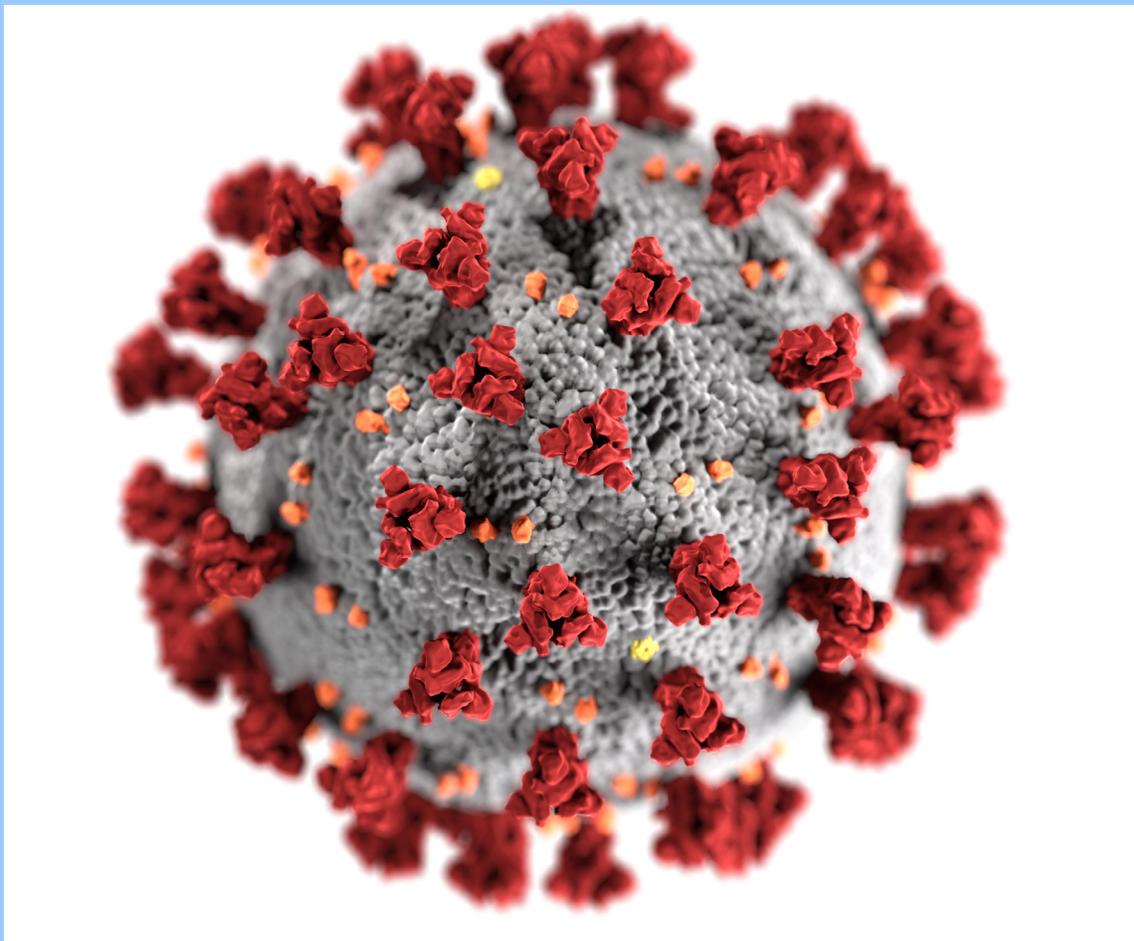


Table of Contents

Board of Directors	2	Echocardiography	5-6
Committees	2	Image Competition Winners	7
Convention Cancellation	3	New Convention Date	8
Board of Directors Minutes	3-4	KSRT Application	9
Executive Committee Minutes ...	4, 7		

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**Interested in contributing to
the *Anode*?**

Contact: Jen Smith

Email:

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**(Please put *Anode* in the subject
line)**

**Official Publication of the
Kansas Society of Radiologic
Technologists**

Denise Orth, Executive Secretary
1702 Mermis Ct.
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CONVENTION CANCELLATION LETTER

To: KSRT Members
From: Megan Rucker, education chair, and Rhonda Sunnenberg, president, on behalf of the KSRT Board of Directors
Date: March 15, 2020
Re: 2020 Annual Convention

Dear KSRT Member,

The KSRT has been closely monitoring the developing COVID-19 situation. At this time and after much discussion, the Board of Directors has made the decision to postpone the Annual KSRT Convention due to the CDC recommendations for the virus.

The Board absolutely feels the health and safety of our members and the patients we serve warrant this postponement. Many colleges

have closed campuses for an extended period of time and many healthcare facilities are taking strict precautions and advising against employee travel.

The society will be working with the venue to ensure the convention will be held at a later date and time. Information will be distributed once the Board of Directors meets and has the opportunity to discuss potential dates.

The Board of Directors has authorized a full refund to those who have already registered. Please bear with us as we process these reimbursements. Contact ksrt.exsec@gmail.com with any questions regarding refunds. If you have already made a hotel reservation using the KSRT code, the hotel will allow you to can-

cel your reservation without penalty. Additional information regarding conference exhibits, essays, competitions, and scholarships will be coming in the near future.

We are truly sorry for the inconvenience you will incur from this decision; however, the health and safety of our members and the communities we serve is our priority. Providing continuing education, advocating, and your support is very important to the KSRT.

Best Regards,

KSRT Board of Directors

Editor's note: The annual convention has been rescheduled to Sept. 11-12.

JANUARY BOARD OF DIRECTORS MEETING MINUTES

10:15 a.m. Jan. 18

Manhattan Public Library

Call to order: Ronda Sunnenberg called the meeting to order at 10:25 a.m.

Quorum: Jen Smith established a quorum.

Voting members present: Ronda Sunnenberg, president; Toni Caldwell, immediate past president and legislative chair; Harmony Ibarra, president-elect; Jen Smith, secretary-treasurer and editor of *The Rotating Anode*; Kenny Rounkles, vice president; Megan Rucker, education chair; Katilyn Slaton, professional development chair; Denise Orth, ASRT senior delegate and executive secretary. Attending via Zoom teleconference: Brian Ralph, chair of the board; Alexa Ritter, director at large; Judy Lynch, outgoing western area representative; Kelly Denton, incoming western area representative; Caitlin Burns, student representative.

Non-voting members present: Susan Dumler, professional development vice chair; Kyle Ibarra, nominations co-chair; Lisa Eddy, secretary-treasurer student mentee.

Approval of minutes: The minutes were approved without discussion.

Consent agenda: The consent agenda was approved without discussion.

Secretary-treasurer: Nothing to report.

Professional development: Since the last meeting, Katilyn has sent out emails about convention competition to all program directors, prepared the image voting ballots,

received competition entries from Washburn, and prepped the essays to be delivered to judges. She also reached out via email to individuals about speaking to the students for convention.

ASRT senior delegate: Since the HOD last summer, Denise has reviewed the Standing Rules and Delegate Handbook for the upcoming HOD meeting. She currently is reviewing the proposed changes to the Practice Standards and will update the board at the pre-convention board meeting.

Legislative: Toni has gone to Kansas Board of Healing Arts meetings, met several times and emailed with Hein Law concerning the increase in licensure fees, developed a letter to send to the Kansas Board of Healing Arts about the licensure fee increase, worked with Hein Law to develop a timeline for legislation about radiologist assistants and statues revision as well as a day in the capital, appeared before the Kansas Board of Healing Arts as a witness for a student in a licensure hearing, had a conference call with the Board of Healing Arts concerning licensure for students and working rights as a student, emailed some imaging directors and university faculty about student licensure and students working in their facilities, signed a response to Hein Law to continue monitoring while they transition ownership, helped look for conference speakers, secured items

Continued on Page 4

for conference door prizes and silent auction, and filled out paperwork to be an alternate delegate to the ASRT House of Delegates.

The Rotating Anode editor: Deadline for the next issue of the *Anode* is Feb. 3.

Financial report: Denise presented the financial report. The society has received \$2,000 from ASRT for the Affiliate Development Program and \$1,000 from Radiology and Nuclear Medicine for two scholarships. Our CD investments are doing well, and we have received \$541 from the Job Target job listings on our website, a big increase from last year. Megan moved to approve the report, Toni seconded, motion passed.

Old business:

Affiliate Development Program update: The society received \$2,000 from ASRT for the program and plan to use some of it toward engaging a professional marketing/social media company. Megan will look into pricing. The board discussed having ASRT send email blasts about upcoming legislative issues, convention, and a membership drive during radiologic technologist week in November.

Radiologic Technologist Council member: Brian has applied to be on the council. The current open position is the one appointed by the governor. Kyle will see what else needs to be done during the next council meeting.

Hein Law (1861 Consulting, LLC.): The company is transitioning leadership, and the KSRT will continue the agreement with it for now.

Radiologic technologist week for 2020: We plan to do another quiz and giveaway again this year.

Convention: Megan updated the board on convention plans, including catering and speakers. Judy moved to keep the convention registration fees the same as last year, Denise seconded, motion passed. Susan moved that this year's service project benefit the Lawrence Humane Society, Harmony seconded, motion passed. Jen will be the emcee for the convention. The script for the convention business meetings has been updated.

Fellows ad hoc committee: Denise and Linda have been working on this and will have an update at the pre-convention board meeting.

New business:

Kansas Hospital Association president's retreat: Toni attended the retreat in December. Other members have similar difficulties as the KSRT does, such as declining membership numbers.

Western area representative: Kelly Denton applied to be the western area representative on the board. The board held an email vote in January to approve her.

ASRT Educational Symposium and Annual Governance and House of Delegates meeting: The meeting will be June 24-28 in Albuquerque. Denise is the senior delegate, Harmony is the junior delegate, and Kyle and Toni are alternate delegates. Jen will attend as a CT chapter delegate. Toni moved that the board approve purchasing 600 pins for the ASRT pin exchange, Katilyn seconded, motion passed.

ASRT Student Leadership Development Program: Lisa Eddy, from Hutchinson Community College, and Lauren Whittington, from Fort Hays, were selected as the Kansas representatives. The SLDP program is part of the ASRT Annual Governance and House of Delegates Meeting in Albuquerque.

Proposed budget: Megan moved to accept the proposed budget as presented, Jen seconded, motion passed.

Board recommendation: The proposed budget is the only board recommendation for the annual convention.

2021 convention: Megan is researching prices for the 2021 convention. At this moment, there are not adequate facilities in western Kansas, so she is looking at Wichita again or possibly Salina or Newton. Hays is being considered for 2022.

Announcements:

Board reports for convention packets need to be sent to Denise by March 22.

Deadline for next issue of *The Rotating Anode* was Feb. 3.

The next board meeting was scheduled for April 2 at the DoubleTree in Lawrence.

Adjournment: Toni moved to adjourn the meeting, Megan seconded. The meeting was adjourned at 1:09 p.m.

Editor's note: After this meeting, the KSRT Annual Convention was postponed, and the ASRT Educational Symposium and Annual Governance and House of Delegates meeting has been cancelled.

JANUARY EXECUTIVE COMMITTEE MEETING MINUTES

10 a.m. Jan. 18
Manhattan Public Library and Zoom
meeting

Call to order: Brian Ralph called the meeting to order at 10:06 a.m.

Quorum: Toni Caldwell, immediate past president; Ronda Sunnenberg, president; and Brian Ralph, chair of the board via Zoom.

Approval of minutes: Approved without change.

Financial report: Executive Sec-

retary Denise Orth presented the year-end financial report through Jan. 11. The report showed income of \$11,039.42 and expenses of \$10,566.03. The net worth report showed a checking account balance of \$11,530.84 and certificates of

Continued on Page 7

HARMLESS ECHOCARDIOGRAPHY

By Emilee Giliam, Washburn University
First-place essay

Abstract

An echocardiogram (echo) is a medical test that uses sound waves to produce images of the heart. The high-frequency sound waves provide a visual of the heart's valves and chambers. These images then are used to evaluate the organ's structure and make sure it is functioning properly. Echocardiography also is used to determine the presence of heart disease. In some cases it is a superior form of medical imaging because it does not expose patients or technologists to ionizing radiation. Because of this harmless feature, echocardiography is being used more to help diagnose cardiac problems.

Echocardiograms are noninvasive procedures used to assess the heart's structures and overall functions. This type of medical imaging also is called echocardiography or diagnostic cardiac ultrasound. An echocardiogram looks at the heart's chambers, valves, walls, and blood vessels (Echocardiogram). The heart is a vital muscular organ responsible for pumping blood through the vessels of the circulatory system. Blood provides the body with nutrients and oxygen. An echocardiogram is a common test used to analyze the beating of the heart, its ability to pump blood, and to identify if cardiac disease is present.

Cardiac diseases which can be diagnosed from echocardiograms include, but are not limited to valve disease, myocardial disease, pericardial disease, infective endocarditis, cardiac masses, and congenital heart disease (Harvard). Different health factors, such as lifestyle, age, and family history, all can increase one's risk of heart disease. Features that can represent disease in the heart would be enlargement or thickening of the heart muscle. Thickening of the heart muscles may cause a block of blood flow from the left ventricle and make it harder to pump blood. The two main causes of this thickening is coronary artery

disease or history of a heart attack.

There are four basic types of echocardiograms: transthoracic (TTE), transesophageal (TEE), Doppler, and stress. Transthoracic echocardiograms are the most standard form of echo. During this exam, a technologist spreads gel onto the transducer or probe used to send soundwaves to the body. This device produces sound waves which bounce off the heart's structures to create "echoes" that go back to the probe. By placing the transducer at different angles, different images are recorded. Once the echoes have been sent back to the transducer, the computer converts them into moving images on the monitor. In this specific form of echocardiography, the sonographer presses the transducer firmly against the skin and targets the ultrasound waves through the chest and into the heart to produce the correct images. If the lungs or ribs interfere with the view of the heart, a small amount of an enhancing agent may be injected intravenously. This injection typically is well tolerated and helps the heart's structures show up more clearly (Echocardiogram, 2019).

A transesophageal echocardiogram is used when the doctor needs a more detailed image. During this procedure the patient's throat is numbed and they may be given additional medication to help them relax. The numbing medication is typically a spray or gel. After the numbing medication is administered, a flexible tube that accommodates a transducer is guided down the patient's throat into the esophagus and positioned to obtain images of the heart. The transducer records sound waves from the heart and they then are converted and transferred into images on the monitor. This form of echo may cause a sore throat for a day or two after (Echocardiogram, 2018).

A Doppler echocardiogram uses sound waves that alternate pitches when the waves reflect off blood cells moving through the heart and vessels. These alternating changes are known

as Doppler signals. Doppler signals help measure the speed and direction of blood flow in the heart. On the monitor blood flow can be displayed in color to help indicate problem areas. This is a very useful and beneficial tool for cardiac healthcare providers. It also can be used to check for blood flow problems and blood pressure in the arteries of the heart. This feature may not be visible in traditional sonography. The Doppler technique normally is used during transthoracic and transesophageal echocardiogram procedures (Echocardiogram, 2018).

A stress echocardiogram is used specifically to check for coronary artery problems. During this test images of the heart are captured before and immediately after the patient walks on a treadmill or rides a stationary bike. When the patient is active, the doctor or technologist will monitor and record the blood pressure and heart rhythm. This form of activity will increase heart rate and help physicians create a diagnosis. Stress echocardiograms are used to help determine heart size and how well the heart and blood vessels are functioning. However, this test does not show blockages in the heart's arteries. If the healthcare provider is worried about narrowing or blockage of arteries they typically will order a nuclear stress test (Echocardiogram, 2018).

Posterior-anterior (PA) chest x-rays also can indicate cardiac size. PA chest x-rays often are used to compare with echocardiography. Chest x-rays are easily accessible; however, they expose the patient to radiation and have less diagnostic accuracy regarding heart size. An echocardiogram also produces images with more detailed images than a standard x-ray image (Echocardiogram: MedlinePlus).

Echocardiograms can be performed in a doctor's office or in a hospital. Most procedures take less than an hour to complete and are relatively

Continued on Page 6

easy on the patient. These tests can show numerous characteristics of the heart. For example, an echocardiogram can show changes in heart size. Weakening or damaged heart valves, high blood pressure, and/or other diseases can cause the chambers of the heart to enlarge. They also can show pumping strength and damage to the heart muscle. During the procedure, measurements are taken that provide the ejection fraction and the cardiac output. The ejection fraction is a percentage of blood that is pumped out of a filled ventricle with each heartbeat, and the cardiac output represents the volume of blood pumped from the heart in one minute. Echoes do a great job in helping assess valve problems by determining if heart valves open enough for adequate blood and close enough to prevent blood leakage. Lastly, an echo can show problems with the chambers, abnormal connections between the heart and major blood vessels, and identify heart defects (Echocardiogram, 2018).

The risks of these procedures are very minimal. For standard echocardiograms the patient's only complaint is typically the amount of pressure from the transducer on the skin. In order to receive the best possible reading, cardiac sonographers need to firmly press the transducer against the patient's chest. This may cause slight discomfort but is necessary to produce high-quality images of the heart. Overall this procedure is harmless and very simple (Echocardiogram, 2018).

Echocardiograms perform efficiently without using ionizing radiation, making them relatively harmless to patients. Ionizing radiation is used in many other diagnostic tests and potentially can damage cells and increase the risk of cancer. The American College of Cardiology Foundation encourages echocardiograms over other studies to reduce radiation exposure people receive. Other appropriate options that pose no radiation risk to the patient are electrocardiograms and

MRI (Harvard).

Echo is available to patients of all ages and sizes, including fetuses and newborns. It is the most common test performed on children with potential heart diseases. It is very important for children to remain still during these examinations to make sure the technologist or doctor can obtain the best possible image for diagnosis (Pediatric Echocardiography).

Before going in for a standard echocardiogram there are typically no special preparations. The patient is allowed to eat, drink, and take medications as normal. Only a transesophageal echo requires preparation. In this case the patient should not eat or drink anything for several hours before the procedure. The patient also should have a ride available for after the appointment because of the medication given to them (Echocardiogram, 2018). It is an important safety precaution.

Most people can resume day-to-day activities immediately after the test, except with a transesophageal echocardiogram. After a TEE, the patient is taken to a recovery room to have their heart rate, blood pressure, and oxygen monitored. When the patient is alert and well, they are free to go home and resume normal activities unless told otherwise by a doctor (Echocardiogram, 2018).

Echocardiograms are cardiac ultrasound test that provide visuals of the heart. They are used to diagnose cardiac problems and also guide heart surgeries and complex cardiac catheterizations, echocardiography is a harmless technique that is very beneficial in diagnosing chronic and acute heart conditions. Even though chest x-rays are more convenient and more accessible, the images of the heart are not as detailed as with echocardiography. Chest x-rays also expose patients to small amounts of radiation not present during echocardiograms. This factor is what makes echocardiograms superior, along with their descriptive images. The most standard form of echocardiograms is the transthoracic echocardiogram. The four main types of echocardiography

help distinguish between different cases and are ordered based on what the physician is looking for. All of these procedures are relatively harmless to the patient and technologist. There are also very few preparations before an echocardiogram examination.

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***KDHE link
for COVID-19
information:
[https://www.
coronavirus.
kdheks.gov](https://www.kdheks.gov)***

KSRT Image Competition 2020

Odontoid

First place – Rhylie Shuff, Labette

Second place – Ashlyn Weilert,
Washburn

Third place – Lauren Stark, Labette

Oblique lumbar spine

First place – Dakota Sanders, Fort Hays

Second place – Brenlee Young, Washburn

Third place – Haley Carr, Washburn

AP oblique “Grashey Method” shoulder

First place – Quinn Holaday, Washburn

Second place – Briley Hollar, Washburn

Third place – Caitlyn Burns, Washburn

Contrast – RAO esophagus

Hannah Michaud, Fort Hays

Most Interesting Case

Alexis Lee, Washburn

Continued from Page 4

deposit worth \$43,732.65 for a total net worth of \$55,263.49. Toni moved to approve the financial report as given. Ronda seconded the motion. Motion approved.

Old business:

Affiliate financial assistance program update: Need to make decisions in full board with how to spend the money that the ASRT gave us.

New business:

Proposed budget: There is a grandfather clause in the state statute that has become a huge problem with other professions using it. The statute needs to include radiologist assistants. Toni is meeting in February with the central region of the ASRT and she is in contact with Christine Lung at ASRT about financial assistance. Day on the Hill to have RAs and RTs recognized and educate legislators on the profession. Derek Hein and Mitch DePriest will own Hein Law (now called 1861 Consulting), so there is a transition period where Ron Hein is taking on a consulting role. The KHA is aware of RAs and is supportive of our efforts. Toni is working on building relationships to get radiologist groups and other people to support our efforts. The ASRT is helping Missouri financially and are pushing for RAs. Toni also will contact the ARRT for assistance.

Day on the Hill: Hold a small reception in the morning and cover talking points. The committee recommended making no changes to the \$8,200 proposed budget line item. All in favor of the proposed budget.

Announcements: None.

Adjournment: The meeting was adjourned at 10:21 a.m.

Save the NEW date!

**The 2020 KSRT Annual Convention
will be Sept. 11-12 at the
DoubleTree by Hilton in Lawrence.**

**And this year we're kicking things off
early! Come join us Thursday evening,
Sept. 10, for an opening reception to
mingle and to find out "I have X-ray
vision. What's your superpower?"
Appetizers and soft drinks will be
provided.**

**Room rate is \$109/night, and reservations
can be made now by calling the hotel at
(785) 841-7077. Discount code is SMERFS.**

APPLICATION FOR MEMBERSHIP

THE KANSAS SOCIETY OF RADIOLOGIC TECHNOLOGISTS

By submitting this form, you are agreeing to abide by the Bylaws of the Kansas Society of Radiologic Technologists. You are also acknowledging the information submitted is correct and accurate. Dues must accompany this application.

FULL NAME _____
First Middle Initial Last Credentials

Street City State Zip

DOB _____ Email _____
Month Day Year

Phone Number () _____ Date of application _____

Check membership category.

ACTIVE MEMBER: DUES \$50.00/Year
Certified by ARRT and Member of ASRT and practicing in the field of radiologic technology.
MUST SUBMIT COPIES OF ARRT AND ASRT CARDS

ASSOCIATE A MEMBER: DUES \$50.00/Year
Certified by ARRT and practicing in the field of radiologic technology.
COPY OF ARRT CARD MUST BE SUBMITTED.

ASSOCIATE B MEMBER: DUES \$50.00/Year
Persons practicing in the field of radiologic technology not certified by the American Registry of Radiologic Technologists and are not registry eligible; or, those persons interested in promoting the purposes and functions of the KSRT, but are not eligible for Active, Associate A, Life, Senior or Student membership.

SENIOR MEMBER: DUES \$25.00/Year
Certified by ARRT and 65 years old or more.
SEND COPIES OF ARRT CARD AND BIRTH CERTIFICATE OR DRIVER'S LICENSE.

STUDENT MEMBER: (STATUS APPLIES TO PRIMARY PROGRAM OF STUDY) DUES \$25.00/Year
Enrolled in an approved school of radiography for a MINIMUM of 24 months.

PRESENT EMPLOYMENT or SCHOOL: _____

STUDENTS ONLY: Date of Enrollment _____ Anticipated Date of Graduation _____

Continuous Renewal _____ New applicant _____ (PLEASE CHECK ONE)

Graduate Bridge Program: Certificate must be returned with membership renewal application and dues stated on certificate. Valid for primary program of study.

The KSRT values our volunteers! Which of the following would you be interested in volunteering for?

Circle all that apply: Committee Officer Speaker

"The Rotating Anode" is available electronically for all new members.

I would like to contribute to the Scholarship Fund for the amount of \$ _____ in addition to my dues. This DOES NOT qualify as a charitable deduction OR professional expense for tax purposes.

PLEASE RETURN TO:

Denise K. Orth Executive Secretary, KSRT 1702 Mermis Court Hays, KS 67601 KSRT.exsec@gmail.com
Pay with PayPal or make checks/money orders payable to the KSRT. No partial dues accepted.
\$25.00 CHARGE FOR ALL CHECKS RETURNED FOR INSUFFICIENT FUNDS!

ADDRESS SERVICE REQUESTED

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