

## MSRC Sputum Bowl

### Welcome to the Michigan Society for Respiratory Care (MSRC) SPUTUM BOWL 2023

Congratulations on your team's decision to compete in the exciting MSRC Sputum Bowl 2023. The attached information includes the "rules and tools" you will need to prepare for the competition as follows:

- The Rules of Competition
- The Reference List and Question Requirements
- Due Date for Application Submission (February 17, 2023)
- Due Date for Question Submission (February 27, 2023)
- Due Date for AARC Early Professional Membership (March 20, 2023)
- Due Date for MSRC Conference Registration (March 20, 2023)
- MSRC Sputum Bowl Past Winners List
- Mandatory Captain's Meeting (March 28th, 2023 @ 8:00 am)

**Captain's Meeting:** The team's captain (or a designee) must be present for competition seeding and questions at The Radisson Plaza Hotel & Suites on Tuesday, March 28th, 2023, at 8:00 AM. The competition will begin immediately (approximately 8:30 AM).

We feel the inventor of the game, Ron Koncher, would be pleased with the direction we have taken his game, which is so loved in Michigan and nationally. Again, thank you, Mr. Koncher. We wish you well as you take your first step toward Nashville!

### Let the Games Begin!

Nicholas Prush, Ph.D., MHA, RRT, RRT-ACCS  
2023 Sputum Bowl Coordinator  
(734) 915-7504 or email: [naprush@umich.edu](mailto:naprush@umich.edu)

# Sputum Bowl 2023

## Reminders

The required number of questions for student submission is 20.

1. The categories for student question submission are: Name That (Disease, Drug, Device, etc.), Asthma Guidelines, COPD Guidelines, and Visual.
2. ***Video or audio recording of any competition is prohibited.*** The team will be disqualified if a team member or supporter is found to be video or audio recording of any match.
3. Alcohol consumption by team members during any match is prohibited while competing.

- **Team Composition**

- There is a limit on the number of teams eligible for competition. Sixteen student teams will be accepted for the competition in 2023. Preliminary competition will be held in a bracketed, double-elimination format. Teams can have 4 players with only 3 players competing at one time. Teams will be entered into the competition on a first-come, first-serve basis. A college may reserve a spot by having the Program Director submit an application before the deadline. The rule is in place because some schools have a competition after the application deadline to determine their representatives. Therefore, all teams are encouraged to submit applications as soon as possible.

- **Risk / Reward (Preliminary, Finals, Overtime)**

- This element will exist during preliminary, finals, and overtime games. It will be in effect for the first eight minutes of preliminary matches, the first 16 minutes of finals matches, and the entire overtime period. The moderator will begin to read the question. If a team buzzes in before the completion of the question, the moderator will indicate the team is "At Risk." If the answer is incorrect, the team will lose a point. The reward occurs if the answer is correct, and the team will gain a point (+1). For example, if team A buzzes in and is "At Risk" and loses a (-1) point, the question will be re-read for team B in its entirety, and normal play will continue.

- **Bonus Phase**
  - There will be a Bonus Phase during the final two minutes of preliminary matches and the final four minutes of any Finals match. During the Bonus phase, if team A buzzes in and is correct, they will receive (2) two points. If team A is incorrect, one point is deducted (-1). If team A is incorrect, team B will get a complete reading of the question. If team B is correct, they will receive 1 point. If team B is incorrect, no points will be deducted.
- **Ask the Expert (Preliminary competition only)**
  - In **Preliminary** competition, each team must identify the name of their “Expert” to the Sputum Bowl committee **before** the start of each game if one is being used. The "Expert" must sit in a pre-defined seat. The team may choose whomever they wish, except anyone on the Sputum Bowl Committee or any judge presiding during the round. When a team responds to a question and wishes to use the lifeline, they will announce they want to “Ask the Expert.” The team will have 15 seconds to begin an answer. This lifeline can only be used once during a game and is only available during the first eight (8) minutes of the match. “Risk/Reward” will apply when using your expert. An “Expert” may be disqualified if found to be providing clues, using any form of social media to assist the teams, or otherwise not participating within the spirit of the game.
- **Call the Posse (Finals competition only)**
  - In the **Finals** competition, each team may select up to (6) people to form their Posse before the contest. The “Posse” will sit at reserved tables for the teams near the competition site. The team may choose whomever they wish except anyone on the Sputum Bowl Committee or any judge presiding during the game. When a team responds to a question and wishes to use this lifeline, they will announce they want to “Call the Posse.” This request can only be used once and within the first 16 minutes of the game. One "Posse" member will be responsible for answering the question **without** consultation with the team on stage. The Posse will have 15 seconds to begin an answer. Again, this lifeline can only be used once during the first 16 minutes of the game. “Risk/Reward” will apply when using “Call the Posse.”

- **Section VI, C** - The judges shall rule on the moderator's response to any question when so desired and indicate whether they accept or reject a team's answer. All decisions shall be final and not subject to the protest process.
- **Section VIII, E.** If Team A responds to a question before the moderator has read the complete question, then Team A will have to attempt to answer the unfinished question. All questions during the competition, before the Bonus Phase, shall be played under a Risk/Reward policy, whereby if a team responds by buzzing in before the completion of the question being read, the moderator will identify the team is "at risk." If the team answers correctly, one point (+1) is awarded. If the team is incorrect, they lose one point (-1), and the moderator will re-read the complete question for the opposing team.
- **Section VIII, F.** If neither team responds to a question within ten seconds after the moderator has completed its reading, the question will be set aside, and questioning will continue. A team cannot have points taken away, resulting in a negative score.

# MSRC SPUTUM BOWL

March 28 & 29, 2023

## **RULES OF COMPETITION**

*The primary objective of the Sputum Bowl is to stimulate interest in the current knowledge and practice of respiratory care. The competition shall be held in a spirit of professionalism and good sportsmanship. Teams should conduct themselves with this spirit in mind. There are no losers in this contest. All should better understand respiratory care and themselves from this experience.*

### **1. Submission of Teams**

- A. An application must be received by the MSRC by Friday, February 17, 2023.
- B. The Sputum Bowl Committee Representative must receive the required questions from each team by Monday, February 27th, 2023, at 5:00 pm. Please refer to Rule X and Appendices A - D. If questions are not received on time, the team will be subject to disqualification unless previous arrangements have been made.
- C. Membership to the AARC and conference registration must be received by March 20, 2023.

### **2. Team Composition**

- D. A team shall consist of not more than four (4) team members (three players and one alternate)
- E. Team members (herein considered the team) must be current members in good standing of the American Association for Respiratory Care (AARC). Team members who have just recently become AARC members but do not have an AARC number yet will still be able to submit an application for the competition. However, the Sputum Bowl Coordinator must receive new AARC membership numbers from the AARC office before the start of the competition, or the team will be subject to disqualification from the competition.
- F. All team members of the championship student team shall be ineligible to compete in their respective class for one year. The only exception to this rule is a first-year

student team winning may return as a second-year student team the following year.

- G. Team members must be registered for a minimum of one day at the MSRC Annual Spring Conference.

### **3. Format for State Competition**

- H. The State Competition will be held in conjunction with the MSRC Spring Conference.
- I. Preliminaries will be held on the first day of the conference/pre-conference.
- J. A random drawing will determine the initial pairings.
- K. When feasible, first-year students will be placed in a pool separate from second-year students for the initial drawing.
- L. The competition will continue throughout the day until only four (4) teams remain.
- M. Finals will be held on the second evening of the conference.

### **4. Sputum Bowl Coordinator and Committee**

- N. The Sputum Bowl Coordinator is in charge of marketing, managing, and evaluating all phases of the event.
- O. The Sputum Bowl Coordinator shall review the teams' eligibility before and during the competition to determine if any irregularities exist.
- P. The Sputum Bowl Coordinator and Committee shall be responsible for the physical setup of the contest site, the proper functioning of all equipment, questions, and all other necessary arrangements to ensure a smoothly run competition.
- Q. All matches will be recorded. The Sputum Bowl Coordinator's responsibility is to ensure this is undertaken. The video will be made available to the judges upon request.

### **5. Moderator**

- R. The moderator shall be someone familiar with the terminology of the profession and shall be appointed by the Sputum Bowl Coordinator.
- S. The moderator shall have the option to accept or reject an answer without asking for the judge's ruling.
- T. During the game, the moderator is responsible for maintaining order of the match.
- U. Question selection is at the discretion of the moderator.

- V. The moderator shall review all questions before the competition to determine the limits of acceptable alternate responses to each question and determine sets of questions for use during each round of play.

## **6. Judges**

- W. The judges shall be individuals who are qualified within their respective fields.
- X. When feasible, the judges shall not be directly related to teams involved in any specific contest.
- Y. The judges shall rule on the response to any question that the moderator desires and indicate whether they accept or reject a team's answer. All decisions shall be final and not subject to the protest process.
- Z. The judges will keep the official score for each game. Any irregularity in scoring between the official score and the scorekeeper score should be rectified immediately by the judges notifying the moderator.

## **7. The Competition**

### **AA. Preliminaries**

1. A game will consist of two teams in the competition.
2. Each game will be ten (10) minutes in length. The team scoring the most points at the end of ten minutes is the winner of the match.
3. Pairings of teams for the first round of competition are to be done by random draw.
4. Team pairings will use bracket methodology.
5. When a team fails to take their seats within one minute of being called at the time of their match, they shall forfeit the match.

### **BB. Finals**

1. A match will consist of two teams in the competition. There will be one championship match.
2. The match will be twenty (20) minutes in length. The team scoring the most points at the end of regulation time is the winner of the match.
3. The winner of the championship match will be awarded first place. The runner-up will be awarded second place.

## 8. General Rules

- CC. The moderator shall signal the beginning of each match.
- DD. The Score/Timekeeper shall time the length of play and announce the end of the match. The score/timekeeper shall maintain a running score, which is visible to all participants and the audience.
- EE. The moderator will ask the pre-selected questions, indicate the team that responded first, and await the answer. Then, the moderator will judge the first answer given as to its correctness, and if correct, indicate it to the scorekeeper.
- FF. Each team, after buzzing in to answer a question, shall have ten (10) seconds to begin an answer. Failure to start answering within ten seconds will result in a missed question and allow the opposing team to answer. An attempt to stall by saying, "The answer is..."(or any other phrase that is not a part of the answer) will not be judged as the beginning of an answer. Team members have the liberty to confer during this time.
- GG. If Team A responds to a question before the moderator has read the complete question, then Team A will have to attempt to answer the unfinished question. All questions during the competition before the Bonus Phase shall be played under a Risk/Reward policy. If a team responds by buzzing in before the completion of the question being read, the moderator will identify they are "at risk." If the team answers correctly, one point is awarded (+1). If the team does not answer correctly, one point is deducted (-1), and the moderator will re-read the complete question for the opposing team.
- HH. There will be a Bonus Phase during the last two minutes of preliminary matches and the last four minutes of Finals matches. During the Bonus phase, if team A buzzes in and is correct, they will receive (+2) two points. If team A is incorrect, one point is deducted (-1). If team A is incorrect, team B will get a complete



- reading of the question. If team B is correct, they will receive one (+1) point; if incorrect, (0) points will be deducted.
- II. If neither team responds to a question within ten seconds after the moderator has completed its reading, the question will be set aside, and questioning will continue. A team cannot have points taken away that result in a negative score.
- JJ. ***Video or audio recording of any competition is prohibited.*** If a team member or supporter is found to be video or audio recording of any match, that team will be disqualified.
- KK. If, due to moderator error, a question must be thrown out after Team A has already missed it and before Team B has had a chance to answer the question, the next question will be read to Team B, who will have ten seconds to respond. Any points lost by Team A on the first question shall stand. Team B shall earn points on the following question based on a correct answer. The moderator shall have the freedom to select questions in any order and throw out questions at any time.
- LL. Risk/Reward – All questions before the bonus phase during the competition shall be played under a Risk/Reward policy, whereby if a team responds by buzzing in before the completion of the question being read, the moderator will identify the team as “at risk.” If the team answers correctly, the team will be rewarded with one point (+1). Conversely, if the team does not answer correctly, one point is deducted (-1), and the moderator will re-read the complete question for the opposing team.
- MM. Ask the Expert Lifeline – This is for the Preliminary matches only. Each team can choose an expert as a lifeline used once during a match. The team can use this lifeline if they want assistance with a question. The expert can consult with the team, and either the expert or any team member must answer the question within 15 seconds after the team has requested to use the lifeline. The expert must be identified before the match to the moderator and will be seated in proximity to the teams. The Sputum Bowl Committee Chair has the right to disqualify any expert that is either providing the teams with clues or is otherwise not participating within the spirit of the game.
- NN. Call the Posse Lifeline – This is for the Final matches and can only be used once during the match. Each team will have a designated table at the beginning of the

match. This table would have their team's Posse, which may include up to 6 people. The team can use this lifeline if they want assistance with a question. The Posse must answer the question within 15 seconds after the team has requested to use the lifeline. **Risk / Reward remains in effect during this time.**

- OO. A sudden-death playoff shall resolve tie games at the end of regulation play with no time limit. The first team to score three (3) points shall be declared the winner. **Risk / Reward remains in effect during this time.**
- PP. If a question is asked and a team commits to answer as the time clock runs out (00.00), they will be allowed to complete their answer. If not answered correctly, the opposing team will have the opportunity to answer the question in accordance with the above rules.
- QQ. Alcohol consumption by team members while on stage during any match is prohibited.
- RR. The winning team(s) at the state competition must be able to field a team in accordance with the AARC rules for all eligible matches at the National level. In addition, the winning student team must be enrolled in a Respiratory Therapy

program during state competition. If the team cannot do so, the 2<sup>nd</sup> place team will be offered the opportunity to compete at nationals.

**9. Questions / Requirements for Student Teams**

- SS. All student teams must submit 20 questions from the following list.
- TT. The Sputum Bowl Committee (SBC) believes the game will benefit from more clinically relevant questions.
- UU. The question matrix is listed below.
- VV. The number indicates the maximum number of questions from each question group. Any combination of question types may be used if they do not exceed the maximum number in each category and the total number of questions equal 20.

<b>Question Type</b>	<b>Max. #</b>
Name That (Disease, Drug, Device, etc.)	5
Respiratory Care Journal (2020 – 2022)	5
Asthma Guidelines	5
COPD Guidelines	5
Visual Question	5

- WW. The questions shall represent the level of didactic and clinical proficiency a therapist is expected to possess.
- XX. All questions shall be referenced to the list in Appendix A.
- YY. All traditional questions shall pertain to one of the categories in Appendix B.
- ZZ. Questions shall be submitted following the required format:
  - 1. Questions should be entered into the Excel spreadsheet (Appendix G) and sent via e-mail to the MSRC to Keeli Baker (kbaker@mhsa.com)
  - 2. Questions will include the category, question, answer, reference and page number, and team name (See example in Appendix C).
- AAA. The following types of questions are **UNACCEPTABLE**:
  - 1. True/False and Yes/No questions
  - 2. Multiple choice questions
  - 3. Fill-in-the-blank questions
- BBB. All questions shall be reviewed before the competition.

CCC. Those questions not written in accordance with the above rules will be returned to the submitting team for revision. Teams that have to revise their questions will be given a one-week extension on the deadline mentioned above.

DDD. Questions pertaining to clinical practice are preferred.

EEE. Visual questions shall follow the format outlined in Appendix C.

## **10. Challenging the Competition**

FFF. Teams are asked to wait at the contest site for five minutes after the completion of a game to learn of any protests relative to the contest.

GGG. All competitions will be video recorded to provide a record of the proceedings.

HHH. The team captain must submit a written protest (Appendix F) to challenge any portion of the competition within five minutes after the completion of the game in which the protest is claimed.

III. All Sputum Bowl Competition references are onsite for the Review Committee only (Review Committee consists of):

1. Sputum Bowl Coordinator
2. Moderator
3. Timekeeper / Scorekeeper
4. Judges

JJJ. The review shall consist of the following:

1. Protesting team captain stating discrepancy and any supporting material (limited to three minutes).
2. Any rebuttal from the opposing team captain (limited to three minutes).
3. The committee reviews all material pertinent to the proceedings.
4. The final decision voted upon and decided by the majority of the Review Committee shall be completed before the next match. A member of the Review Committee shall announce the final decision and rationale.

KKK. A special limiting provision to a challenge is that a team cannot win a game solely based on a protest decision. In other words, the only outcome of a decision in favor of the protest is the possibility of a tie game and, therefore, a chance to win in a sudden death playoff. If the losing team is behind by only one or two points, a favorable decision may bring the team's score up to that of the winning team (i.e., a tie). Challenges are moot if the teams are tied anyway at the end of regulation

play (since the best outcome is a tie score via a protest decision). This eliminates the possibility of a losing team defeating the winning team based solely on the decision of the Review Committee.

## **11. Electronics System**

LLL. In the case of an electronic malfunction, the moderator will stop the match. The clock will be reset to the time when the malfunction was first noticed. The question in progress will be thrown out. The moderator shall signal the resumption of the game and begin with a new question. No points will be awarded on the question thrown out, nor may they be deducted if the team answering was at risk. Before restarting play, the moderator shall ensure all systems are operational and clear.

## **12. The Trophy**

MMM. To safeguard the trophy, it will be kept by the MSRC Sputum Bowl Committee.

NNN. Team plaques will go home with the winners.

## **Appendix A – Approved Sputum Bowl References**

1.	American Academy of Pediatrics and American Heart Association; John Kattwinkel, MD, FAAP, Editor. <i>Neonatal Resuscitation (NRP) Textbook</i> . 8 <sup>th</sup> ed. American Academy of Pediatrics and American Heart Association; 2016.
2.	American Association for Respiratory Care. <i>AARC Clinical Practice Guidelines</i> . CPG published through December 2022 (available at <a href="http://www.aarc.org">www.aarc.org</a> ).
3.	American Heart Association. 2020 BLS for Health Care Providers Student Manual, 2020.
4.	American Heart Association, Advanced Cardiovascular Life Support (ACLS) Provider Manual; 2020 Guidelines; 2020.
5.	Heuer AJ & Scanlan CL. <i>Wilkins' Clinical Assessment in Respiratory Care</i> . 9 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2021.
6.	Malley WJ <i>Clinical Blood Gases: Assessment and Intervention</i> . 2 <sup>nd</sup> ed. Maryland Heights, MO: Saunders-Elsevier; 2005.
7.	DesJardins T & Burton GG. <i>Clinical Manifestations and Assessment of Respiratory Disease</i> . 8 <sup>th</sup> ed. Philadelphia, PA: Mosby-Elsevier; 2019.
8.	Kacmarek R & Wilkins, R. <i>Egan's Fundamental of Respiratory Care</i> . 12 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2021.
9.	Mottram, C. <i>Ruppel's Manual of Pulmonary Function Testing</i> . 12 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2022.
10.	Cairo JM. <i>Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications</i> . 7 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2019.
11.	Cairo JM. <i>Mosby's Respiratory Care Equipment</i> . 11 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2022.
12.	Gardenhire DS. <i>Rau's Respiratory Care Pharmacology</i> . 10 <sup>th</sup> ed. St. Louis, MO: Mosby-Elsevier; 2020.
13.	Heuer and Rodrigues, C. <i>Comprehensive Respiratory Therapy Exam Preparation Guide</i> . 4th ed. Burlington, MA: Jones and Bartlett Learning, 2021.
14.	<i>Respiratory Care: The Official Journal of the AARC</i> . January 2020 - December 2022.
15.	Desjardins, T. <i>Cardiopulmonary Anatomy &amp; Physiology, Essentials for Respiratory Care</i> , 7 <sup>th</sup> ed. Delmar Cengage Learning; 2020.

16.	Walsh BK. Neonatal and <i>Pediatric Respiratory Care</i> . 6th ed. St. Louis, MO: Saunders-Elsevier 2022.
17.	Focused Update to Asthma Management Guidelines,2021 <a href="https://www.epa.gov/sites/default/files/2021-05/documents/_sites_default_files_publications_asthmamanagementguidelinesreport-2-4-21.pdf">https://www.epa.gov/sites/default/files/2021-05/documents/_sites_default_files_publications_asthmamanagementguidelinesreport-2-4-21.pdf</a>
18.	Global Strategy for the Diagnosis, Management, and Prevention of COPD, Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2022. Pocket Guide <a href="https://staging.goldcopd.org/wp-content/uploads/2021/12/GOLD-POCKET-GUIDE-2022-v1.1-22Nov2021_WMV.pdf">https://staging.goldcopd.org/wp-content/uploads/2021/12/GOLD-POCKET-GUIDE-2022-v1.1-22Nov2021_WMV.pdf</a>
19.	Beachey, W. Respiratory Care Anatomy & Physiology, Foundations for Clinical Practice. 5 <sup>th</sup> ed. Mosby-Elsevier; 2022.

## APPENDIX B: Question Categories and Types

### QUESTION CATEGORIES

- A. Airway Management
- B. Anatomy and Physiology
- C. Bronchial Hygiene
- D. Chemistry/Physics
- E. Diagnostics
- F. Emergency Care
- G. Gas Therapy
- H. History
- I. Humidity/Aerosol
- J. Management/Professional Practice
- K. Mechanical Ventilation
- L. Microbiology
- M. Neonatal/Pediatrics
- N. Pathology
- O. Patient Assessment
- P. Pharmacology
- Q. Pulmonary Rehab/Long-Term Care

### QUESTION TYPES

- A. Traditional Question
- B. Calculate This
- C. Interpret This
- D. Name That (Disease, Drug, Device, etc.)
- E. Visuals



## APPENDIX C: Visual Question Format

### A. Visual Question Criteria

1. Subjects for visual questions should predominantly be items or scenes a typical respiratory care practitioner can reasonably be expected to recognize. The visual questions should require recognition or analysis of the visual image to compose a correct answer and not simply provide a visible background to a traditional oral question.
2. Each visual question shall consist of an image attached in digital format (jpeg preferred) and a numbered question on a PowerPoint slide. The information required for each question is listed below. The images submitted do not have to appear directly in the reference, but the content of the question and answer shall be referenced to the list in Appendix A.

### B. Suggested Visual Question Types

1. Interesting scenes of any aspect of the practice of respiratory care.
2. Realistic, staged illustrations of the practice of respiratory care.
3. Items of equipment
4. Clear technical diagrams

### C. Unacceptable

1. Equations
2. Slides consisting only of words
3. Copyrighted photographs or cartoons

D. Visual questions will be submitted electronically as a PowerPoint slide. The question should be included in the Notes section of the PowerPoint slide. Below is a sample picture and question.

Visual #1 – Category is Airway Management  
Q: The RCP pictured here is performing what emergency procedure for the benefit of a conscious choking victim?  
A: Heimlich maneuver (or subdiaphragmatic Thrusts)  
Reference - AHA BLS Manual, 2011, p. 99  
Submitted by: Vic and the Ventilators/2019



## APPENDIX D: Sample Questions

### A. Question Types

#### 1. Traditional

##### CHEMISTRY/PHYSICS

Q: In what units is absolute humidity normally expressed?

A: Grams per cubic meter, or milligrams per liter

Ref: RC Journal, Oct. 2016, p.12

Submitted by: Joe SCOOP and the Bent Stents/2019

#### 2. Calculate This / Mechanical Ventilation

- a) These questions will require a team to perform a calculation to determine the correct answer. Each team will have a simple calculator, pencil, and paper.

##### Calculate This / Mechanical Ventilation

Q: Listen carefully; a patient receiving mechanical ventilation has a set respiratory rate of 12 bpm and a set tidal volume of 500 mL's. The patient is currently apneic. Calculate the patient's minute volume.

A: 6L or 6000 mLs

Ref: Egan's Fundamental of Respiratory Therapy, pg.232

Submitted by: Deadspace, 2019

3. Interpret This / Diagnostics

- a) These questions will require interpreting patient-related data. This may include ABGs, PFTs, EKGs, Ventilator Graphics, etc.

Interpret This / Diagnostics

Q: Listen carefully a patient has the following ABG results. pH 7.50, PaCO<sub>2</sub> 55 and HCO<sub>3</sub> 20. What is the most likely interpretation of this data?

A: Erroneous blood gas result

Ref: Egan's Fundamental of Respiratory Therapy, pg. 371-372

Submitted by: Aspirations, 2019.

4. Name That Disease, That Drug, That Device, etc. / Pathology

- a) These questions would include a minimum of 3 clues going from general to specific. As more clues are given, the answer becomes more apparent.

Name That Disease / Pathology

Q: a) I am classified as an obstructive condition. b) I am less likely to occur now than in the past due to antibiotic therapy c) I often accompany cystic fibrosis d) I may be classified as varicose, saccular or fusiform. Who Am I?

A: Bronchiectasis

Ref: Egan's Fundamental of Respiratory Therapy, pg. 521-22

Submitted by: Spit Bulls, 2019

5. Respiratory Care: The Journal

- a) These questions will be taken from the last two years of the Respiratory Care Journal. Identify the month and year in the question.

Microbiology

Q: In the November 2015 issue of Respiratory Care, there was an article that studied the difference in pathogen between COPD Exacerbation and Community-Acquired Pneumonia. What was the most common pathogen found in COPD exacerbation?

A: *Pseudomonas aeruginosa*

Ref: RC Journal Nov. 2018, pg. 345

Submitted by: Great Expectorations, 2019

## **APPENDIX E: Pairings**

- A. First Round Pairings will be done by a random draw. There will be a separate random draw for 1st & 2nd-year teams. If there are an odd number of student teams, then a 2nd-year team may be paired against a 1st-year team.
- B. After the first round, all pairings will be done with the bracket methodology.

**APPENDIX F: Challenge Form**

Team Submitting Challenge: \_\_\_\_\_

Team Captain: \_\_\_\_\_

The following protest is being presented:

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Opposing Team: \_\_\_\_\_

Team Captain: \_\_\_\_\_

The following is our response to the above challenge:

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Resolution:    DENIED                      UPHELD

Summary of Challenge

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Sputum Bowl Review Committee Member: \_\_\_\_\_

## Appendix G: Question Submission Information

### A. Question Submission

1. All questions must be submitted electronically using the Excel spreadsheet found at [michiganrc.org](http://michiganrc.org).
2. Email questions and visuals to Keeli Baker ([kbaker@mhsa.com](mailto:kbaker@mhsa.com)) & Nicholas Prush ([naprush@umich.edu](mailto:naprush@umich.edu))

### Appendix H – Past Sputum Bowl Winners

1979	Kalamazoo	Bruce Brenn, Homer Engert, James Taylor
1980	Providence	Tammy Chiesa, Germaine Fritz, Rick Zahodnic
1981	Kalamazoo	Bruce Brenn, Homer Engert, James Taylor
1982	Kalamazoo	Bruce Brenn, Homer Engert, James Taylor
1983	Aspirations	Laura Hume, Anna Ibrahim, Vicky Long, Jeff Ibrahim
1984	Kalamazoo	Bruce Brenn, Homer Engert, James Taylor
1985	Adrenochromes	Anna Ibrahim, David Panzlau, Rick Zahodnic, Jeff Ibrahim
1986	Great Expectorations	Delisa Hudson, Sue Mazzara, Bill Poma
1987	Adrenochromes	Anna Ibrahim, David Panzlau, Rick Zahodnic, Jeff Ibrahim
1988	Spit Bulls	Jan Fields, Polly Bunce, Jim Ross
1989	Spit Bulls	Jan Fields, Polly Bunce, Jim Ross
1990	Great Expectorations	Delisa Hudson, Bill Poma, Jackie Milosevski, Sue Labiak
1991	Beta-3	Al Moss, Phil McLaughlin, Gary Duncan, Rod Albrecht
1992	Kalamazoo	Al Moss, Bruce Brenn, Homer Engert, James Taylor (AARC Champs)



1993	Adverse F/X	David Panzlau, Robin McIntosh, Anna Ibrahim, Jan Fields (AARC Champs)
1994	Tracheal Deviants	Al Moss, Valerie Willis, Teresa Keppler, Mary Meldrum
1995	Knights Who Say "NEEP"	Laura Gifford, Tim Kelly, Connie Guyor, Larrie Eskamalgi
1996	Oxy Hoods	Vickie Drouillard, Liz Lucero, Michael McMinn
1997	Chief Complaint & the Manifestations	Becky Barnett, Wanda Brooks, Michael McMinn, Daniel Stasik
1998	Chief Complaint & the Manifestations	Becky Barnett, Michael McMinn, Daniel Stasik
1999	Mike and the Mucoids	Becky Barnett, Wanda Brooks, Michael McMinn,
2000	The Four Respiteers	Brian Coltson, Gerard White, Earl Gregory, Randy Kenyon
2001	Smells Like Psuedo But It's Snot	Rod Conklin, Brian Wicker, Jason Ekel, Vikas Sharma
2002	The Four Respiteers	Brian Coltson, Earl Gregory, Randy Kenyon, Tim Dillard
2003	The Hackers	Rachael Caleca, Michael McMinn, Paula Wood
2004	The SubAcuties	Becky Becker, Amy Culver, Joshua Young (Practitioner)
2004	Foreign Bodies	Sherri Bryan, Emma Hatt, Jeannine Mesler, Stephanie Smolinski (Student - Mott Community College)

2005	Rolling Stomas	Nancy Graff, Jim Harpster, Kathy Kammeraad (Practitioner)
2005	Huff 'n Puffs	Terry Tighe, Tara Inman, Krista Scott (Student - Monroe County Community College)
2006	The SubAcuties	Becky Becker, Amy Culver, Joshua Young (Practitioner)
2006	Auto PEEPS	Jaya Bawa, Sara Hubbard, Jim Johnson (Student – Mott Community College)
2007	Mucus Among Us	Al Moss, Rod Albrecht, Jill Deamud, Rene Spahr (Practitioner)
2007	Rapid Response	Lakshmi Balasubramamyan, Archana Jagtap, Bittu Mammen, Nylene Otto (Student – Oakland Community College)
2008	Respirados	Amy Culver, Becky Becker, Cindy Shellenbarger (Practitioner)
2008	Das Boot	Lindsay Jacobs, Margaret Schichtle, Jason Juergens, Jason Pagaduan (Student - Macomb Community College)
2009	Das Boot	Margaret Schichtle, Jason Juergens, Jason Pagaduan, Lindsay Patrick (Practitioner)
2009	Ace Venturi Snot Detective	Sierra Black, Nelson Pagaduan, Michelle Sopchak (Student - Macomb Community College)
2010	Ace Venturi Snot Detective	Sierra Black, Nelson Pagaduan, Mary Alstead (Practitioner)

2010	Acid Droppers	Anthony Iannetta, Stephania Synod, Steve Manning (Student - Macomb Community College)
2011	Rapid Unresponsive Team	David Panzlau, Vickee Drouillard, Kathy Gurin, Shari Markel (Practitioner)
2011	Rapid Responders	Tony Nguyen, Monika Caruso, Lizabeth Nikollaj, Paula Visingardi (Student - Macomb Community College)
2012	Rapid Responders	Monika Caruso, Tony Nguyen, Lizabeth Nikollaj (Practitioner)
2012	Alpha Agents	James Ouiles, Alex Cole, Jessica Silmi, Jennifer Vang (Student – Macomb Community College)
2013	Kalamazoo	Al Moss, Rod Albrecht, Kristi Holmes, Kathy Bedford (Practitioner) (AARC Champs)
2013	O2 High Ons	Suruchi Gupta, Alex Drouin, Val Derieu, Andy Yatooma (Student – Macomb Community College)
2014	Acafellas	Nick Prush, Chris Cutler, Shane Spaulding (Practitioner)
2014	FLBs	Brian Leideker, Katie Shedlock, Jaclyn Zanotti, Mudasir Hussain (Student – Macomb Community College)
2015	MEOW	Sierra Elberson, Katie Shedlock, Adrienne Christ (Practitioner)

2015	The Sword and the Stoma	Steve Pattison, Lucienne Levan, Elizabeth Prybys, Alyssa Padsiadly (Student – Macomb Community College)
2016	Oh My GERD	Elizabeth Prybys, Alyssa Padsiadly, Lucienne LeVan (Practitioner)
2016	Spit Happens	Michael Thomas, Rebecca Davis, Spencer Hanson, Angela Alayoubi (Student – Macomb Community College)
2017	Visibly Soiled	Rena Laliberte, Mark Stronati, Hamza Lakhani, Joseph Hodson (Practitioner)
2017	Snot Rockets	Spencer Hanson, Renee Sassin, Alexandra Worde, Steve Morrow (Macomb Community College)
2018	The Bronchoprovocators	Steven Morrow, Marie Angst, Jason Gates, Jesse St. Louis (Macomb Community College)
2019	Luken Trappers	Sarah Duseau, Brooke Boylan, Alexis Varner, Katey Gubbini (Monroe County Community College)
2022	Lungs N Roses	Darrian Pratt, Chase Hill, Dan Mittlestat, Gina DiMaria (Monroe County Community College)
2023		YOUR NAME CAN BE HERE!!!

## Appendix I: Sputum Bowl Checklist

Being prepared is one of the keys to success and fun at the Sputum Bowl. So, to ensure you have dotted the i's and crossed the t's, here is your SB Checklist.

1.	Submission of a team application to the MSRC Office - Due February 17 <sup>th</sup> , 2023.	
2.	Submission of Questions to the MSRC SB Coordinator (Nicholas Prush – <a href="mailto:naprush@umich.edu">naprush@umich.edu</a> ) - Due February 27 <sup>th</sup> , 2023.	
3.	Submission of AARC membership by March 20 <sup>th</sup> , 2023.	
4.	Submission of MSRC conference registration by March 20 <sup>th</sup> , 2023.	
5.	Attend the Captain's Meeting – March 28 <sup>th</sup> , 2023, @ 8:00am.	

### **2023 Sputum Bowl Committee:**

Jeanine "Ginger" Steinaway

Kathy Gurin

David Panzlau

Spencer Hanson

Rick Zahodnic

Elizabeth Santamaria

Nicholas Prush

*Revised January 10, 2023*