

Journal Club 2017

October 19, 2017

Presented by: Drs. Katie Lin & Harinee Surendra

Preceptor: Dr. Eddy Lang

- 1) Grunau et al. External validation of the universal termination of resuscitation rule for out-of-hospital cardiac arrest in british columbia. *Ann Emerg Med.* 2017;70(3):347-381

<https://www.ncbi.nlm.nih.gov/pubmed/28302424>

- 2) Tsou et al. Accuracy of point-of-care focused echocardiography in predicting outcome of resuscitation in cardiac arrest patients: a systematic review and meta-analysis. *Resusc.* 2017;114:92-99.

<https://www.ncbi.nlm.nih.gov/pubmed/28263791>

September 14

Presented by: Drs. Amanda Schreiner & Jasdeep Gill

Preceptor: Dr. James Andruchow

- 1) Prognostic Accuracy of the SOFA Score, SIRS Criteria and qSOFA Score for In-Hospital Mortality Among Adults With Suspected Infection Admitted to the Intensive Care Unit. *Raith et al. JAMA* 2017. PMID: 28114553

<https://www.ncbi.nlm.nih.gov/pubmed/28114553>

- 2) Hydrocortisone, Vitamin C, and Thiamine for the Treatment of Severe Sepsis and Septic Shock: A Retrospective Before-After Study. *Marik et al. CHEST* 2017; 151(6): 1229-1238. PMID: 27940189

<https://www.ncbi.nlm.nih.gov/pubmed/27940189>

May 18

Presented by: Drs. Chase Krook & Sean Fair

Preceptor: Dr. Geoff Lampard

- 1) Emergency department point-of-care ultrasound in out-of-hospital and in-ED cardiac arrest. *Resuscitation.* 2016 Dec;109:33-39. doi: 10.1016/j.resuscitation.2016.09.018. Epub 2016 Sep 28.

<https://www.ncbi.nlm.nih.gov/pubmed/27693280>

- 2) Mechanical versus manual chest compression for out-of-hospital cardiac arrest (PARAMEDIC): a pragmatic, cluster randomised controlled trial. *Lancet.* 2015 Mar 14;385(9972):947-55. doi: 10.1016/S0140-6736(14)61886-9. Epub 2014 Nov 16.

<https://www.ncbi.nlm.nih.gov/pubmed/25467566>

April 20

Presented by: Drs. Paul McKenna & Tasha Wright

Preceptor: Dr. Mike Szava-Kovats

- 1) Outcomes for Emergency Department Patients With Recent-Onset Atrial Fibrillation and Flutter Treated in Canadian Hospitals.

Ian G. Stiell, MD, MSc*

Ann Emerg Med. 2017 May. PMID: 28110987

<https://www.ncbi.nlm.nih.gov/pubmed/28110987>

- 2) Is Tachycardia at Discharge From the Pediatric Emergency Department a Cause for Concern? A Nonconcurrent Cohort Study.

Paria M. Wilson, MD, Med

Ann Emerg Med. 2017 Feb 23. PMID: 28238501

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Is+Tachycardia+at+Discharge+Fr...>

March 23

Presented by: Drs. Steve Liu & Ion Leah

Preceptor: Dr. Marshall Ross

- 1) Intensive Blood-Pressure Lowering in Patients with Acute Cerebral Hemorrhage. Qureshi A, et al.

N Engl J Med 2016; 375:1033-1043 September 15, 2016

<http://www.nejm.org/doi/10.1056/NEJMoa1603460>

- 2) Platelet transfusion versus standard care after acute stroke due to spontaneous cerebral haemorrhage associated with antiplatelet therapy (PATCH): a randomised, open-label, phase 3 trial. Baharoglu MI, et al.

PMID: 27178479

<http://www.sciencedirect.com/science/article/pii/S0140673616303920>

February 23

Presented by: Drs. Andrew Battison & Lincoln Foerster

Preceptor: Dr. Grant Innes

1) Randomized comparison of intravenous procainamide vs. intravenous amiodarone for the acute treatment of tolerated wide QRS tachycardia: the PROCAMIO study. Mercedes Ortiz1†, Alfonso Mart?n2, Fernando Arribas3, Blanca Coll-Vinent4, Carmen del Arco5, Rafael Peinado6 and Jesu´s Almendral1*†, on Behalf of the PROCAMIO Study Investigators

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Randomized+comparison+of+intra...>

2) Association Between Tracheal Intubation During Adult In-Hospital Cardiac Arrest and Survival. LarsW. Andersen, MD, MPH, PhD; Asger Granfeldt, MD, PhD, DMSc; CliftonW. Callaway, MD, PhD; StevenM. Bradley, MD, MPH; Jasmeet Soar, FRCA, FFICM, FRCP; Jerry P. Nolan, FRCA, FRCP, FFICM, FCEM (Hon); Tobias Kurth, MD, ScD; MichaelW. Donnino, MD; for the American Heart Association's Get With The Guidelines–Resuscitation Investigators.

<https://www.ncbi.nlm.nih.gov/pubmed/28118660>

January 26

Presented by: Drs. Adrian Heller & Patricia Lee

Preceptor: Dr. Marshall Ross

1) Talan et al. Trimethoprim-Sulfamethoxazole versus placebo for uncomplicated skin abscess. <https://www.ncbi.nlm.nih.gov/pubmed/?term=NEJM+2016%3B+374%3A823-32>.

2) Potsma DF et al. Antibiotic treatment strategies for community-acquired pneumonia in adults. <https://www.ncbi.nlm.nih.gov/pubmed/?term=NEJM+2015%3B+372%3A14%3A1312-1323>.

Journal Club 2016

December 15

Article 1:

Prandoni P, Lensing AW, Prins MH, Ciammaichella M, Perlati M, Mumoli N, Bucherini E, Visonà A, Bova C, Imberti D, Camprostrini S, Barbar S; PESIT Investigators.. Prevalence of Pulmonary Embolism among Patients Hospitalized for Syncope. N Engl J Med. 2016 Oct 20;375(16):1524-1531. PubMed PMID: 27797317.

Article 2:

Elias A, Mallett S, Daoud-Elias M, Poggi JN, Clarke M. Prognostic models in acute pulmonary embolism: a systematic review and meta-analysis. BMJ Open. 2016 Apr 29;6(4):e010324. doi: 10.1136/bmjopen-2015-010324. PubMed PMID: 27130162; PubMed Central PMCID: PMC4854007.

November 17

Presentation by Drs. Christine East and Marcie Veitch

1) - <http://www.nejm.org/doi/full/10.1056/NEJMoa1502000#t=abstract>. Pollack CVJ, Reilly PA, Eikelboom J, Glund S, Verhamme P, Bernstein RA, et al. Idarucizumab for Dabigatran Reversal. New England Journal of Medicine. 2015;373(6):511-20

- 2) <http://www.nejm.org/doi/full/10.1056/NEJMoa1607887>. Connolly SJ, Milling TJJ, Eikelboom JW, Gibson CM, Curnutte JT, Gold A, et al. Andexanet Alfa for Acute Major Bleeding Associated with Factor Xa Inhibitors. *New England Journal of Medicine*. 2016;375(12):1131-41.

October 20

Presentation by Drs. Ken chan and Sean Nixon

- 1) Mueller C et al. Multicenter Evaluation of a 0-Hour/1-Hour Algorithm in the Diagnosis of Myocardial Infarction With High-Sensitivity Cardiac Troponin T. *Ann Emerg Med* 2016; 68(1):76-87.e4. doi:10.1016/j.annemergmed.2015.11.013.
- 2) Hoeller R et al. Normal presenting levels of high-sensitivity troponin and myocardial infarction. *Heart* 2013; 99:1567-72. doi:10.1136/heartjnl-2013-303643.

September 15

Presentation by Drs. Katie Lin, Hilary Ambrose and Gil Yehudaiff

Paper 1) *Bush, L., et al. "Evaluation of Cervical Spine Clearance by Computed Tomographic Scan Alone in Intoxicated Patients with Blunt Trauma."*

JAMA Surg. 2016. doi:10.1001/jamasurg.2016.1248.

Paper 2) Zemek, R., et al. "Clinical Risk Score for Persistent Post concussion Symptoms Among Children with Acute Concussion in the ED."

JAMA. 2016. 315(10):1014-1025.

June 16

Presentation by Drs. Andrew Fagan and Charles Wong

Paper 1) *"Effect of Dilute Apple Juice and Preferred Fluids vs Electrolyte Maintenance Solution on Treatment Failure Among Children With Mild Gastroenteritis: A Randomized Clinical Trial"*

Stephen B. Freedman, MDCM, MSc; Andrew R. Willan, PhD; Kathy Boutis, MD; Suzanne Schuh, MD

<http://jama.jamanetwork.com/article.aspx?articleid=2518402> PMID: 27131100

Paper 2) *"Oral Prednisolone in the Treatment of Acute Gout: A Pragmatic, Multicenter, Double-Blind, Randomized Trial"*

Timothy Hudson Rainer, MD*; Chi Hung Cheng, MD*; Hein J.E.M. Janssens, MD, PhD; Chi Yin Man, MD; Lai Shan Tam, MD; Yu Fai Choi, MD; Wah Hon Yau, MD; Ka Hing Lee, MD; and Colin Alexander Graham, MD

<http://annals.org/article.aspx?articleid=2494539> PMID: 26903390

May 26

Emerg Med and Radiology Joint JC

Presentation by Drs. Kat Bateman, Anjali Pandya, Aman Wadhvani and Dorian Nobbee

Paper 1) 1. Loy, CT & Irwig, L. Accuracy of diagnostic tests read with and without clinical information: a systematic review. JAMA. 2004; 292(13): 1602-9. PMID 15467063

Paper 2) . Raja, AS, et al. Effect of computerized clinical decision support on the use and yield of CT pulmonary angiography in the emergency department. Radiology. 2012; 262(2)468-74. PMID 22187633

April 28

Presentation by Drs. Gren Gracias and Kasia Lenz

[Summary Notes](#)

Paper 1) Amiodarone, Lidocaine, or Placebo in Out-of-Hospital Cardiac Arrest. Kudenchuck et al.

NEJM April 4, 2016. DOI: 10.1056/NEJMoa1514204

Paper 2) The impact of downtime on neurologic intact survival in patients with targeted temperature management after out-of-hospital cardiac arrest:

National multi center cohort study Kim et al. Resuscitation. 2016 Apr 7

DOI: <http://dx.doi.org/10.1016/j.resuscitation.2016.03.020>

March 31

Presentation by Drs. Brett Elsdon and Ion Leah

[Summary Notes](#)

Article 1:

[Gágyor I](#), [Bleidorn J](#), [Kochen MM](#), [Schmiemann G](#), [Wegscheider K](#), [Hummerts-Pradier E](#). "Ibuprofen versus fosfomycin for uncomplicated urinary tract infection in women: randomised controlled trial." [BMJ](#). 2015 Dec 23;351

[PMID: 26698878](#)

Article 2:

[Monge García MI](#), [Gil Cano A](#), [Gracia Romero M](#), [Monterroso Pintado R](#), [Pérez Madueño V](#), [Díaz Monrové JC](#).

"Non-invasive assessment of fluid responsiveness by changes in partial end-tidal CO2 pressure during a passive leg-raising maneuver." [Ann Intensive Care](#). 2012 Mar 26;2:9.

[PMID: 22449292](#)

February 25

Presentation by Drs. Sean Fair, Rory Thomson and Chase Krook

Summary Notes

Article 1:

Matthew W. Semler, David R. Janz, Robert J. Lentz, Daniel T. Matthews, Brett C. Norman, Tufik R. Assad, Raj D. Keriwala, Benjamin A. Ferrell, Michael J. Noto, Andrew C. McKown, Emily G. Kocurek, Melissa A. Warren, Luis E. Huerta, and Todd W. Rice "Randomized Trial of Apneic Oxygenation during Endotracheal Intubation of the Critically Ill", American Journal of Respiratory and Critical Care Medicine, Vol. 193, No. 3 (2016), pp. 273-280. doi: 10.1164/rccm.201507-1294OC

PMID: [26426458](#)

Article 2:

Minneci PC, Mahida JB, Lodwick DL, et al. Effectiveness of Patient Choice in Nonoperative vs Surgical Management of Pediatric Uncomplicated Acute Appendicitis. JAMA Surg. Published online December 16, 2015. doi:10.1001/jamasurg.2015.4534.

PMID: [26676711](#)

Article 3:

de la Poza Abad M, Mas Dalmau G, Moreno Bakedano M, et al. Prescription Strategies in Acute Uncomplicated Respiratory Infections: A Randomized Clinical Trial. JAMA Intern Med. 2016;176(1):21-29. doi:10.1001/jamainternmed.2015.7088.

PMID: [26719947](#)

January 28

Drs. Eric McGillis and Emma Logan

[Summary Notes](#)

Article 1:

[Chad G. Ball,*, Derek J. Roberts, Andrew W. Kirkpatrick, David V. Feliciano, John B. Kortbeek, Indraneel Datta, Kevin B. Laupland, Mantaj Brar. Injury. \(2012\) 51–54](#)

Article 2:

[Transfusion of Plasma, Platelets, and Red Blood Cells in a 1:1:1 vs a 1:1:2 Ratio and Mortality in Patients With Severe Trauma The PROPPR Randomized Clinical Trial](#)

[JAMA. 2015;313\(5\):471-482. doi:10.1001/jama.2015.12](#)

Journal Club 2015

November 19

Presentation by: Drs. Jerusha Millar & Ali Abdalvand

[Summary Notes](#)

Article 1:

[Benjamin W. Friedman, MD, MS; Andrew A. Dym, BS; Michelle Davitt, MD; Lynne Holden, MD; Iemencia Solorzano, PharmD; David Esses, MD; Polly E. Bijur, PhD; E. John Gallagher, MD. Naproxen With Cyclobenzaprine, Oxycodone/Acetaminophen, or Placebo for Treating Acute Low Back Pain: A Randomized Clinical Trial. 1JAMA. 2015;314\(15\):1572-1580. doi:10.1001/jama.2015.13043](#)

Article 2:

[Torres A, Sibila O, Ferrer M3, Polverino E, Menendez R, Mensa J, Gabarrús A, Sellarés J, Restrepo MI, Anzueto A, Niederman MS, Agustí C: Effect of Corticosteroids on Treatment Failure Among Hospitalized Patients With Severe Community-Acquired Pneumonia and High Inflammatory Response : A Randomized Clinical Trial. JAMA. 2015 Feb 17;313\(7\):677-86. doi: 10.1001/jama.2015.88. PMID: 25688779](#)

October 22

Presented by: Drs. Karl Phillips, Paul McKenna & Brett Wilson

Summary Notes

Article 1:

[Shahrami A, Assarzagdegan F, Hatamabadi HR, Asgarzadeh M, Sarehbandi B, Asgarzadeh S. Comparison of therapeutic effects of magnesium sulfate vs. dexamethasone/metoclopramide on alleviating acutemigraine headache. J Emerg Med. 2015 Jan;48\(1\):69-76. doi: 10.1016/j.jemermed.2014.06.055. Epub 2014 Sep 30. PMID: 25278139](#)

Article 2:

[Appelboam A, Reuben A, Mann C, Gagg J, Ewings P, Barton A, Lobban T6, Dayer M7, Vickery J, Benger J; REVERT trial collaborators. Postural modification to the standard Valsalva manoeuvre for emergency treatment of supraventriculartachycardias \(REVERT\): a randomised controlled trial. Lancet 2015 Aug 24. pii: S0140-6736\(15\)61485-4. doi: 10.1016/S0140-6736\(15\)61485-4. PMID: 26314489](#)

Article 3:

[Motov S, Rockoff B, Cohen V, Pushkar I, Likourezos A, McKay C, Soleyman-Zomalan E, Homel P, Terentiev V, Fromm C. Intravenous Subdissociative-Dose Ketamine Versus Morphine for Analgesia in the Emergency Department: A Randomized Controlled Trial. Ann Emerg Med. 2015 Sep;66\(3\):222-229.e1. doi: 10.1016/j.annemergmed.2015.03.004. Epub 2015 Mar 26. PMID: 258178](#)

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September 24

Presented by : Drs. Katie Lin & Hilary Ambrose

Summary Notes

Article 1:

[Grunau, B.E., Li, J., Yi, T.W., et al. 2014. Incidence of Clinically Important Biphasic Reactions in Emergency Department Patients with Allergic Reactions or Anaphylaxis. Ann of Emerg Med. 63\(6\):736-744. PMID: 24239340.](#)

Article 2:

[Grunau BE, Wiens MO, Rowe BH, McKay R, Li J, Yi TW, Stenstrom R, Schellenberg RR, Grafstein E, Scheuermeyer FX. Emergency Department Corticosteroid Use for Allergy or Anaphylaxis Is Not Associated With Decreased Relapses. Ann Emerg Med. 2015 Mar 25. PMID: 25820033](#)

June 18

Presented by: Drs. Katherine Bateman & Ion Leah

Article 1

[Miller et al. Clindamycin versus Trimethoprim-Sulfamethoxazole for uncomplicated skin infections. N Engl J Med 2015. 373 \(12\): 1093-1103.](#)

Article 2

[Vrablik et al. The diagnostic accuracy of bedside ocular ultrasonography for the diagnosis of retinal detachment: A systematic review and meta-analysis. Ann Emerg Med 2015. 65 \(2\) 199-203.](#)

May 28

Presented by: Drs. Paul McKenna and Patty Lee

Summary Notes

Article 1

[Weingart SD, Trueger NS, Wong N, Scofi J, Singh N, Rudolph SS. Delayed sequence intubation: a prospective observational study. Ann Emerg Med. 2015 Apr;65\(4\):349-55](#)

Article 2

[Schuh S, Freedman S, Coates A, Allen U, Parkin PC, Stephens D, Ungar W, DaSilva Z, Willan AR. Effect of oximetry on hospitalization in bronchiolitis: a randomized clinical trial. JAMA. 2014 Aug 20;312\(7\):712-8](#)

April 23

Presented by Drs. Matthew Petzold & Adrian Millman
Guest Speakers Drs. Andrew Demchuk & Mayank Goyal

Summary Notes

Article 1

[Goyal M, Demchuk A, Hill MD, et al. ESCAPE trial investigators. Randomized Assessment of Rapid Endovascular Treatment of Ischemic Stroke. N Engl J Med 2015; 372: 1019 - 1030](#)

Article 2

[Anderson C, Heeley E, Huang Y, et al. INTERACT2 investigators. Rapid Blood-Pressure Lowering in Patients with Acute Intracerebral Hemorrhage N Engl J Med 2013; 368: 2355-65](#)

March 19

Presented by Drs. Vanessa Potok and Anthony Seto

Summary Notes

Article 1

[Kattah JC, Talkad AV, Wang DZ, Hsieh YH, Newman-Toker DE. HINTS to diagnose stroke in the acute vestibular syndrome: three-step bedside oculomotor examination more sensitive than early MRI diffusion-weighted imaging. Stroke. 2009 Nov;40\(11\):3504-10.](#)

February 26

Presented by Drs. Karl Phillips and Marshall Ross

Summary Notes

Article 1

[Agnelli G, Buller HR, Cohen A, Curto M, Gallus AS, Johnson M, Masiukiewicz U, Pak R, Thompson J, Raskob GE, Weitz JI; AMPLIFY Investigators. AMPLIFY Trial: Oral Apixaban for the Treatment of Acute Venous Thromboembolism. N Engl J Med, 2013 col. 369 \(9\), p. 799-808.](#)

Article 2

[Amin A, Jing Y, Trocio J, Lin J, Lingohr-Smith M, Graham J. Evaluation of medical costs associated with use of new oral anticoagulants compared with standard therapy among venous thromboembolism patients. J Med Econ. 2014;17\(11\):763-70.](#)

January 29

Presented by Drs. Eric McGillis and Brad Granberg

Summary Notes

Article 1

[Littmann L, Bustin DJ, Haley MW. A simplified and structured teaching tool for the evaluation and management of pulseless electrical activity. Med Princ Pract. 2014;23\(1\):1-6.](#)

Article 2

[Coba V, Jaehne AK, Suarez A, Dagher GA, Brown SC, Yang JJ, Manteuffel J, Rivers EP. The Incidence and significance of Bacteremia in out-of-hospital Cardiac Arrest. Resuscitation 85 \(2014\) 196–202.](#)

Journal Club 2014

December 17

Presented by: Drs. Anjali Pandya & Tasha Haiduk

Summary Notes

Article 1:

[Imazio M, Brucato A, Cemin R, Ferrua S, Maggolini S, Beqaraj F, Demarie D, Forno D, Ferro S, Maestroni S, Belli R, Trincherio R, Spodick DH, Adler Y; ICAP Investigators. A randomized trial of colchicine for acute pericarditis.. N Engl J Med. 2013 Oct 17;369\(16\):1522-8. doi: 10.1056/NEJMoa1208536. Epub 2013 Aug 31. PMID: 23992557](#)

Article 2:

Freedman SB, Haladyn JK, Floh A, Kirsh JA, Taylor G, Thull-Freedman J. Pediatric myocarditis: emergency department clinical findings and diagnostic evaluation. *Pediatrics*. 2007 Dec;120(6):1278-85. PMID: 18055677

November 27

Presented by: Drs. Dayna Briemon & Lindsay McCormick

Summary Notes

Article 1:

Smith-Bindman R, Aubin C, Bailitz J, Bengiamin RN, Camargo CA Jr, Corbo J, Dean AJ, Goldstein RB, Griffey RT, Jay GD, Kang TL, Kriesel DR, Ma OJ, Mallin M, Manson W, Melnikow J, Miglioretti DL, Miller SK, Mills LD, Miner JR, Moghadassi M, Noble VE, Press GM, Stoller ML, Valencia VE, Wang J, Wang RC, Cummings SR. Ultrasonography versus computed tomography for suspected nephrolithiasis. *N Engl J Med*. 2014 Sep 18;371(12):1100-10. doi: 10.1056/NEJMoa1404446. PMID: 25229916

Article 2:

Fan B, Yang D, Wang J, Che X, Li X, et al. Can tamsulosin facilitate expulsion of ureteral stones? A meta-analysis of randomized controlled trials. *Int J Urol*. 2013 Aug;20(8):818-30. doi: 10.1111/iju.12048. Epub 2012 Dec 20. PMID: 23278872

October 23

Presented by: Drs. Grant Innes & Christine Kennedy

Summary Notes

Article 1:

Ball IM, Seabrook J, Desai N, Allen L, Anderson S. Dilute proparacaine for the management of acute corneal injuries in the emergency department. CJEM. 2010 Sep;12(5):389-96. PMID: 20880433

Article 2:

Waldman N, Densie IK, Herbison P. Topical tetracaine used for 24 hours is safe and rated highly effective by patients for the treatment of pain caused by corneal abrasions: a double-blind, randomized clinical trial. Acad Emerg Med. 2014 Apr;21(4):374-82. doi: 10.1111/acem.12346. PMID: 24730399

September 25

Presented by: Drs. Drs. Kathryn Crowder & Natasha Wright

Summary Notes

Article 1:

Ebell MH, Shinholser J. What Are the Most Clinically Useful Cutoffs for the Alvarado and Pediatric Appendicitis Scores? A Systematic Review. Ann Emerg Med. 2014 Apr 11. pii: S0196-0644(14)00192-9. doi: 10.1016/j.annemergmed.2014.02.025. PMID: 24731432

Article 2:

Leeuwenburgh MM, Stockmann HB, Bouma WH, Houdijk AP, Verhagen MF, Vrouwenraets B, Cobben LP, Bossuyt PM, Stoker J, Boermeester MA; OPTIMAP Study Group. A simple clinical decision rule to rule out appendicitis in patients with nondiagnostic ultrasound results. Acad Emerg Med. 2014 May;21(5):488-96. doi: 10.1111/acem.12374. PMID: 24842498