North American outcomes data from the Resuscitation Outcomes Consortium (ROCC) at our centre were consistent with recently published data. Key variables included rates of post-ROSC emergent angiography, survival to hospital discharge and survival to hospital discharge with favourable neurologic outcome (modified Rankin score 2).

**Results:** During the study period, there were a total of 997 OHCA; 86 met exclusion criteria. Of the 911 remaining patients, 557 (61.1%) were transported to a local ED. Of those transported to the ED, 262 (47.0%) achieved sustained ROSC, defined as survival to ED discharge. Of those who achieved sustained ROSC, median age was 65 years (IQR = 21.75), 66.8% were male. ECG interpretation data was available on 214 patients, of whom 56 had definite STEMI, and 135 had definite absence of STEMI. 37/56 (66.1%) definite STEMI patients received coronary angiography within 24 hours of presentation, as per AHA guidelines. 58/262 (22.1%) post-ROSC patients overall received coronary angiography within 24 hours of presentation to the ED. Of those 58 patients who received emergent angiography, 38 (65.5%) underwent percutaneous coronary intervention (PCI). No patients received fibrinolysis. Of post-ROSC patients who received emergent coronary angiography, 40/58 (69.0%) survived to hospital discharge and 37/58 (63.8%) survived with good neurologic outcome. In comparison, 55/204 (27.0%) who did not receive emergent angiography survived to hospital discharge and 18.8% survived with good neurologic outcome. **Conclusion:** Only 22.1% of patients with OHCA, and only 66.1% with ECG-proven STEMI underwent emergent coronary angiography post-ROSC. Further investigation into causes for delay or the withholding of emergent angiography is necessary.

**Keywords:** cardiac arrest, angiography

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**P021**

**Outcomes of out of hospital cardiac arrest in London, Ontario**

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**Introduction:** Out of hospital cardiac arrest (OHCA) continues to carry a very high mortality rate, with approximately 10% surviving to hospital discharge. We sought to determine if outcomes from out of hospital cardiac arrest (OHCA) at our centre were consistent with recently published North American outcomes data from the Resuscitation Outcomes Consortium (ROCC). **Methods:** We performed a retrospective analysis (Sept 2011–June 2015) of the Resuscitation Outcomes Consortium (ROCC) database, which contains pre-hospital, in-hospital and outcomes data on adult, EMS-treated, non-traumatic OHCA. Patients under 18 years, with missing age data or with obvious non-cardiac causes of arrest were excluded. **Results:** During the study period, there were a total of 997 OHCA; 86 met exclusion criteria. Of the 911 remaining patients, 557 (61.1%) were transported to a local ED. 92 (35.1%) were receiving ongoing CPR at the time of their presentation to the ED. Of those transported to the ED, 262 (47.0%) achieved sustained ROSC, defined as survival to ED discharge. A total of 95 patients survived to hospital discharge (36.3% of patients who achieved sustained ROSC, 17.1% of those who were transported to the ED, and 10.4% of the all OHCA). Of those who survived to hospital discharge who had neurologic outcome data, 90.5% had a modified Rankin score of 2. Initial presenting rhythm with EMS was ventricular fibrillation or pulseless ventricular tachycardia in 233 patients. Of these, 212 (91.0%) were transported to the ED, 134 (57.5%) achieved sustained ROSC, and 71 (30.5%) survived to hospital discharge. 54/60 (90.0%) of those with a documented neurologic exam had a favourable neurologic outcome. Initial presenting rhythm with EMS was PEA or asystole in 636 patients. Of these, 320 (50.3%) were transported to the ED, 115 (18.1%) achieved sustained ROSC, and 17 (2.7%) survived to hospital discharge. 9/10 (90%) of those with a documented neurologic exam had a favourable neurologic outcome. 358 of the arrests were witnessed. Of these, 274 (76.5%) were transported to the ED, 150 (41.9%) achieved sustained ROSC, and 51 (15.9%) survived to hospital discharge. 47/53 (88.7%) of those with a documented neurologic exam had a favourable neurologic outcome. **Conclusion:** Outcomes from out of hospital cardiac arrest in London, Ontario are comparable to other sites across North America.

**Keywords:** cardiac arrest, survival outcomes

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**P022**

The revised METRIQ score: an international, social-media based usability analysis of a quality evaluation instrument for medical education blogs

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**Introduction:** Online medical education resources are widely used in emergency medicine (EM), but strategies to assess quality remain elusive. We previously derived the Medical Education Translational Resources: Impact and Quality (METRIQ) 8 instrument to evaluate quality in medical education blog posts. **Methods:** As part of a subsequent validation study (The METRIQ Blog Study), a mixed-methods usability analysis was performed to obtain user feedback on the quality assessment instrument in order to improve its clarity and reliability. Participants in the METRIQ Study were first asked to rate five blog posts using the METRIQ-8 Score. They then evaluated the METRIQ-8 instruments ease of use and likeliness of being recommended to others using a 7-point Likert scale and free text comments. Participants were also asked to flag and comment on items within the score that they felt were unclear. Global usability ratings were summarized using median scores or percent rated unclear. We used ANOVA to test associations between ease of use and demographic factors. A thematic analysis was performed on the comments. **Results:** 309 EM medical students, residents, and attendings completed the survey. Global ratings were generally very favorable (median 2 [IQR 2-3], with 7 being the lowest score) for ease of use and likeliness of recommendation, and did not vary by participants country of origin, frequency of blog use, or learner level. Participants stated that the score was structured, systematic, and straightforward. They found it useful for junior learners and for guiding blog creation. Four questions in the score (questions 2, 4, 5, and 7) were identified by 10% of subjects to be unclear. Thematic analysis of comments identified suggested four main themes for improving the score: adding clearer definitions with marking rubrics; shortening the 7-point scale; adding items evaluating blog post presentation and utility; and, rephrasing the wording of certain questions for clarity. **Conclusion:** A mixed methods usability analysis of the METRIQ-8 instrument for assessing blog quality was globally well received by EM medical students, residents, and attendings. Qualitative analyses revealed multiple areas to improve the instruments clarity and usability. The METRIQ score is a promising instrument for evaluating the quality of blogs; further development and testing is needed to improve its utility.

**Keywords:** blogs, score/tool, mixed methods study

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**P023**

La valeur diagnostique du ‘Score de détection de la dissection aortique’ et du ratio neutrophiles sur lymphocytes pour le syndrome aortique aigu

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**Introduction:** Online medical education resources are widely used in emergency medicine (EM), but strategies to assess quality remain elusive. We previously derived the Medical Education Translational Resources: Impact and Quality (METRIQ) 8 instrument to evaluate quality in medical education blog posts. **Methods:** As part of a subsequent validation study (The METRIQ Blog Study), a mixed-methods usability analysis was performed to obtain user feedback on the quality assessment instrument in order to improve its clarity and reliability. Participants in the METRIQ Study were first asked to rate five blog posts using the METRIQ-8 Score. They then evaluated the METRIQ-8 instruments ease of use and likeliness of being recommended to others using a 7-point Likert scale and free text comments. Participants were also asked to flag and comment on items within the score that they felt were unclear. Global usability ratings were summarized using median scores or percent rated unclear. We used ANOVA to test associations between ease of use and demographic factors. A thematic analysis was performed on the comments. **Results:** 309 EM medical students, residents, and attendings completed the survey. Global ratings were generally very favorable (median 2 [IQR 2-3], with 7 being the lowest score) for ease of use and likeliness of recommendation, and did not vary by participants country of origin, frequency of blog use, or learner level. Participants stated that the score was structured, systematic, and straightforward. They found it useful for junior learners and for guiding blog creation. Four questions in the score (questions 2, 4, 5, and 7) were identified by 10% of subjects to be unclear. Thematic analysis of comments identified suggested four main themes for improving the score: adding clearer definitions with marking rubrics; shortening the 7-point scale; adding items evaluating blog post presentation and utility; and, rephrasing the wording of certain questions for clarity. **Conclusion:** A mixed methods usability analysis of the METRIQ-8 instrument for assessing blog quality was globally well received by EM medical students, residents, and attendings. Qualitative analyses revealed multiple areas to improve the instruments clarity and usability. The METRIQ score is a promising instrument for evaluating the quality of blogs; further development and testing is needed to improve its utility.

**Keywords:** blogs, score/tool, mixed methods study
Introduction: The syndrome aortique aigu (SAA) is a condition rare and generally mortal who demeure difficile à diagnostiquer. Le Score de détection de la dissection aortique (DDA) et le ratio de neutrophiles sur lymphocytes (NL) ont été proposés comme des éléments pouvant contribuer à exclure le diagnostic du SAA. L'objectif primaire de cette étude est de déterminer la valeur diagnostique (sensibilité et spécificité et rapport de vraisemblance négatif [RV-]) de ces deux éléments de façon indépendante et combinée chez les patients suspects de SAA au département durgence. Methods: Les patients ayant subi une angiographie par tomodensitométrie (angiCT) à la recherche d'une dissection aortique entre 2008 et 2014 à l’urgence du hôpital tertiaire montréalais ont été inclus dans cette étude de cohorte rétrospective. Le score DDA a été établi à partir des dossiers médicaux et le ratio NL calculé à partir de la première formule sanguine prélevée chez ces patients. Pour le score DDA, un score de 1 ou plus et de 2 ou plus ont été évalués comme seuils de positivité. Pour le ratio NL, une valeur de plus de 4,6 a été choisie comme seuil puisqu'il s'agissait du ratio proposé afin de différencier les patients atteints du SAA de ceux souffrant d'anévrysme chronique. Pour la valeur de ces deux tests, afin de maximiser la sensibilité, un score DDA de 1 ou plus ou un ratio NL de plus de 4,6 serait considéré comme positif. Le test de référence pour tous les patients était la tomodensitométrie à partir de cela, la sensibilité, la spécificité et le rapport de vraisemblance négatif de chacun de ces tests/combinaison de tests et leurs intervalles de confiance (IC) ont été calculés. 

Results: Un total de 198 patients (99 hommes et 99 femmes) d'âge moyen de 63 ans (±16) ont été inclus dans l'étude, parmi lesquels 26 (13%) souffraient du SAA. Un score DDA de 1 ou plus avait une sensibilité de 65,7% (IC 95% 60,1-71,6), une spécificité de 69,8% (IC 95% 64,9-75,6), un score DDA de 2 ou plus avait une sensibilité de 65,7% (IC 95% 58,1-72,8) et un VR- de 0,23 (IC 95% 0,09-0,58). Un score DDA de 2 ou plus avait une sensibilité de 23,1% (IC 95% 9,0-43,7), une spécificité de 95,3% (IC 95% 91,0-98,0) et un VR- de 0,81 (IC 95% 0,65-1,00). La sensibilité du ratio NL de plus de 4,6 était de 42,3% (IC 95% 23,4-63,1), la spécificité de 58,7% (IC 95% 51,0-66,3) et le VR- de 0,98 (0,69-1,40). La combinaison du score DDA et du ratio NL avait une sensibilité de 88,5% (IC 95% 69,9-97,6), une spécificité de 38,4% (IC 95% 30,9-46,0) et un VR- de 0,30 (IC 95% 0,00-0,89).

Conclusion: Avoir un score de DDA inférieur à 1 diminue significativement les chances d'avoir un SAA, néanmoins, ne pas cette possibilité et ne devrait pas être utilisé, sauf chez les patients ayant une probabilité pré-test déjà très faible. Le ratio NL en utilisant un seuil de 4,6 n'a aucune utilité diagnostique pour le SAA.

Keywords: aortic dissection, diagnostic.