

**POST LITERATURE REVIEW WORKSHOP  
- COLLATED RESEARCH QUESTIONS**

S/N	PUBLICATIONS COMM / CHAIR / STATISTICIAN	RESEARCH QUESTIONS	ORIGINAL PROPOSER (NAME, COUNTRY)	WORKGROUP MEMBERS (EMAIL ADD)	DELIVERABLE	DEADLINE (from end of workshop on 12 April 2011)
1	<b>OHCA</b> Chair: Marcus Ong Statistician: Pryseley Assam ( <a href="mailto:pryseley.assam@scri.edu.sg">pryseley.assam@scri.edu.sg</a> )	In Asian-pacific paediatric patients (less than 19 years old) who sustained out-of-hospital cardiac arrests (trauma, and non-trauma), what is the epidemiology (incidence, aetiology, demographics) and outcome of resuscitation (ROSC, survival at 30 days to hospital discharge, neurological intact survival defined as CPC 2 or less and good EQ-5D), and update the review of current knowledge.	Tham Lai Peng, Singapore	<ul style="list-style-type: none"> <li>• Marcus Ong (<a href="mailto:marcus.ong.e.h@sgh.com.sg">marcus.ong.e.h@sgh.com.sg</a>)</li> <li>• Tham Lai Peng (<a href="mailto:tham.lai.peng@kkh.com.sg">tham.lai.peng@kkh.com.sg</a>)</li> <li>• Pooja (<a href="mailto:p_ravji86@hotmail.com">p_ravji86@hotmail.com</a>)</li> <li>• Ridvan Atilla (<a href="mailto:ridvan.atilla@deu.edu.tr">ridvan.atilla@deu.edu.tr</a>)</li> </ul>	<ul style="list-style-type: none"> <li>• Systematic review</li> <li>• Analysis plan <ul style="list-style-type: none"> <li>○ PAROS</li> <li>○ CARES</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 6 months</li> <li>• 1 year</li> </ul>
2	<b>OHCA</b> Chair: Marcus Ong Statistician: Pryseley Assam ( <a href="mailto:pryseley.assam@scri.edu.sg">pryseley.assam@scri.edu.sg</a> )	In OHCA patients with witnessed VF or pulseless VT of cardiac etiology in the Asia-Pacific, is there a regional variation in outcomes (ROSC, survival to discharge, functional status at discharge)?	Tatsuya Nishiuchi, Japan	<ul style="list-style-type: none"> <li>• Tatsuya Nishiuchi (<a href="mailto:paradisepa2@gmail.com">paradisepa2@gmail.com</a>)</li> <li>• Doctor Nausheen (<a href="mailto:nausheen.d@googlemail.com">nausheen.d@googlemail.com</a>)</li> <li>• Taku Iwami (<a href="mailto:iwamit@e-mail.jp">iwamit@e-mail.jp</a>; <a href="mailto:iwamit@kuhp.kyoto-u.ac.jp">iwamit@kuhp.kyoto-u.ac.jp</a>)</li> </ul>	<ul style="list-style-type: none"> <li>• Systematic review</li> <li>• Analysis plan <ul style="list-style-type: none"> <li>○ PAROS</li> <li>○ CARES</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 6 months</li> <li>• 1 year</li> </ul>
3	<b>OHCA</b> Chair: Marcus Ong Statistician:	Among patients with out-of-hospital cardiac arrest (OHCA) receiving advanced	Kentaro Kajino, Japan	<ul style="list-style-type: none"> <li>• Kentaro Kajino (<a href="mailto:kajino@hp-emerg.med.osaka-u.ac.jp">kajino@hp-emerg.med.osaka-u.ac.jp</a>; <a href="mailto:kajihanapu@yahoo.co.jp">kajihanapu@yahoo.co.jp</a>)</li> </ul>	<ul style="list-style-type: none"> <li>• Systematic review / Meta-analysis</li> </ul>	<ul style="list-style-type: none"> <li>• 6 months</li> </ul>

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	Pryseley Assam ( <a href="mailto:pryseley.assam@scri.edu.sg">pryseley.assam@scri.edu.sg</a> )	airway management, does the use of endotracheal intubation (ETI) compared to supraglottic airway (SGA) improve patient outcomes - prehospital return of spontaneous circulation (ROSC), ROSC at emergency department, admission to hospital and favourable neurological outcome at 1 month?		<ul style="list-style-type: none"> <li>Tiah Ling (<a href="mailto:ling_tiah@cgh.com.sg">ling_tiah@cgh.com.sg</a>)</li> <li>Omer Ahmed Al Sakaf (<a href="mailto:alsakaf@gmail.com">alsakaf@gmail.com</a>; <a href="mailto:oalsakaf@dcas.gov.ae">oalsakaf@dcas.gov.ae</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> <li>CARES</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>
4	<b>EMS Systems</b> Chair: Sang Do Shin Statistician: Naeem Khan ( <a href="mailto:Naeem.khan@scri.edu.sg">Naeem.khan@scri.edu.sg</a> )	In EMS systems across the Asia Pacific region, are there differences in terms of general characteristics, structure, process, outcomes, and medical oversight system?	Sang Do Shin, Korea	<ul style="list-style-type: none"> <li>Sang Do Shin (<a href="mailto:shinsando@medimail.co.kr">shinsando@medimail.co.kr</a>; <a href="mailto:shinsangdo@snuh.org">shinsangdo@snuh.org</a>)</li> <li>Nathida Sumetchotimaytha (<a href="mailto:banana057@gmail.com">banana057@gmail.com</a>)</li> <li>Ken Goh (<a href="mailto:ken.goh@nus.edu.sg">ken.goh@nus.edu.sg</a>)</li> <li>Pairoj Khruerkarnchana (<a href="mailto:pairoj_khruerkarnchana@yahoo.com">pairoj_khruerkarnchana@yahoo.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Survey</li> <li>Systematic review</li> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> <li>CARES</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>3 months</li> <li>6 months</li> <li>1 year</li> </ul>
5	<b>EMS Systems</b> Chair: Sang Do Shin Statistician: Naeem Khan ( <a href="mailto:Naeem.khan@scri.edu.sg">Naeem.khan@scri.edu.sg</a> )	Amongst emergency medical services[P], what policies are there in managing pronouncement of death, do-not-resuscitate or	Lin Chih-Hao, Taiwan	<ul style="list-style-type: none"> <li>Lin Chih-Hao (<a href="mailto:emergency.lin@gmail.com">emergency.lin@gmail.com</a>)</li> <li>Ng Yih Yng (<a href="mailto:yihyng@gmail.com">yihyng@gmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>CRF</li> <li>Systematic review</li> <li>Survey</li> </ul>	<ul style="list-style-type: none"> <li>3 months</li> <li>6 months</li> <li>1 year</li> </ul>

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		termination-of-resuscitation issues in the pre-hospital care setting?[O]				
6	<b>EMS Systems</b> Chair: Sang Do Shin Statistician: Naeem Khan ( <a href="mailto:Naeem.khan@scri.edu.sg">Naeem.khan@scri.edu.sg</a> )	In adult patients (>= 16yrs old) with non-traumatic OHCA attended to by Asian EMS systems (P), what is the prevalence of <i>initial</i> rhythms of VF/shockable rhythms (O)?	Benjamin Leong, Singapore	<ul style="list-style-type: none"> <li>Benjamin Leong (<a href="mailto:benjamin_sh_leong@nuhs.edu.sg">benjamin_sh_leong@nuhs.edu.sg</a>; <a href="mailto:leong_benjamin@yahoo.com.sg">leong_benjamin@yahoo.com.sg</a>)</li> <li>Paul Weng (<a href="mailto:laup13@hotmail.com">laup13@hotmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Systematic review</li> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> <li>CARES</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>6 months</li> <li>1 year</li> </ul>
7	<b>EMS Systems</b> Chair: Sang Do Shin Statistician: Naeem Khan ( <a href="mailto:Naeem.khan@scri.edu.sg">Naeem.khan@scri.edu.sg</a> )	In OHCA victims in Asia-Pacific countries, is there a relationship between OHCA burden (defined by OHCA incidence in population (per km <sup>2</sup> ) and cardiac arrest outcomes (total EMS time, survival to admission, survival to discharge or 30 days)?	Kuo Chan-wei, Taiwan	<ul style="list-style-type: none"> <li>Chan-Wei Kuo (<a href="mailto:erawei@gmail.com">erawei@gmail.com</a>)</li> <li>Sarah Abdul Karim (<a href="mailto:sarahabdkarim@yahoo.com">sarahabdkarim@yahoo.com</a>)</li> <li>Cheah Si Oon (<a href="mailto:sioon@hotmail.com">sioon@hotmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Research question</li> <li>Systematic review</li> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>3 months</li> <li>6 months</li> <li>1 year</li> </ul>
8	<b>EMS Survey</b> Chair: Hideharu Tanaka Statistician: Dianne Bautista ( <a href="mailto:Dianne.bautista@scri.edu.sg">Dianne.bautista@scri.edu.sg</a> )	In Asia-Pacific countries, are there variations in EMS education and training in terms of <ol style="list-style-type: none"> <li>Entry level education requirement</li> <li>Basic curriculum issue(Didactic, skill</li> </ol>	Hideharu Tanaka, Japan	<ul style="list-style-type: none"> <li>Hideharu Tanaka (<a href="mailto:hidetana@kokushikan.ac.jp">hidetana@kokushikan.ac.jp</a>)</li> <li>Nalinas Khunkhlai (<a href="mailto:sandwhale056@gmail.com">sandwhale056@gmail.com</a>)</li> <li>Poon Beng Hoong (<a href="mailto:poonbh@pacific.net.sg">poonbh@pacific.net.sg</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Survey</li> <li>Systematic review</li> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>3 months</li> <li>6 months</li> <li>1 year</li> </ul>

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		training, Hospital training, filed training requirement) iii. Certificate/License/Deg ree issue iv. Re-certification issue v. Clinical effects (Outcome, No. of procedure)				
9	<b>EMS Survey</b> Chair: Hideharu Tanaka Statistician: Dianne Bautista ( <a href="mailto:Dianne.bautista@scri.edu.sg">Dianne.bautista@scri.edu.sg</a> )	In Asia-Pacific EMS system, what is the performance indicators of services and EMS systems in terms of input (unit hour utilisation, ambulance to population served ratio, equipments availability, personnel skills), process and output [response time (total prehospital time, ambulance response time, dispatch time), appropriate disposition, procedural success or failure, protocol adherence, customer satisfaction, survival to admission, EMS personnel satisfaction, emergency physician satisfaction]?	Nik Hisamuddin Nik AB Rahman, Malaysia	<ul style="list-style-type: none"> <li>• Julina Md Noor (<a href="mailto:julinamn@gmail.com">julinamn@gmail.com</a>)</li> <li>• Toh Hong Chuen (<a href="mailto:toh.hong.chuen@alexandrahealth.com.sg">toh.hong.chuen@alexandrahealth.com.sg</a>)</li> <li>• Nik Hisamuddin Nik AB Rahman (<a href="mailto:nhliza@hotmail.com">nhliza@hotmail.com</a>)</li> <li>• Jirapong Supasaowapak (<a href="mailto:guybrush115@gmail.com">guybrush115@gmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>• Survey</li> <li>• Systematic review</li> <li>• Analysis plan               <ul style="list-style-type: none"> <li>○ PAROS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 3 months</li> <li>• 6 months</li> <li>• 1 year</li> </ul>

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10	<b>EMS Survey</b> Chair: Hideharu Tanaka Statistician: Dianne Bautista ( <a href="mailto:Dianne.bautista@scri.edu.sg">Dianne.bautista@scri.edu.sg</a> )	In adult OHCA of non-cardiac etiologies, what are the patient and EMS characteristics and survival outcomes?	Youngsun Ro, Korea	<ul style="list-style-type: none"> <li>Chang Bae Park (<a href="mailto:ipanema2@medimail.co.kr">ipanema2@medimail.co.kr</a>)</li> <li>Goh E Shaun (<a href="mailto:goh.e.shaun@alexandrahealth.com.sg">goh.e.shaun@alexandrahealth.com.sg</a>; <a href="mailto:shaun_g1212@hotmail.com">shaun_g1212@hotmail.com</a>)</li> <li>Youngsun Ro (<a href="mailto:ro.youngsun@gmail.com">ro.youngsun@gmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Systematic review</li> </ul>	<ul style="list-style-type: none"> <li>6 months</li> </ul>
					<ul style="list-style-type: none"> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>
11	<b>ED Survey</b> Chair: Matthew Ma & Paul Middleton (designate) Statistician: Fahad Siddiqui ( <a href="mailto:fahad.siddiqui@scri.edu.sg">fahad.siddiqui@scri.edu.sg</a> )	In emergency departments involved in the PAROS study, what are the characteristics of the emergency department in terms of input, throughput and output?	Won-Chul Cha, Korea	<ul style="list-style-type: none"> <li>Won-Chul Cha (<a href="mailto:docchaster@gmail.com">docchaster@gmail.com</a>)</li> <li>Kyoung Jun Song (<a href="mailto:skciva@gmail.com">skciva@gmail.com</a>; <a href="mailto:doctorsong@paran.com">doctorsong@paran.com</a>)</li> <li>Gan Han Nee (<a href="mailto:hellobunney@yahoo.com">hellobunney@yahoo.com</a>)</li> <li>Kyung Won Lee (<a href="mailto:cssurgeon@naver.com">cssurgeon@naver.com</a>; <a href="mailto:emkwlee@cu.ac.kr">emkwlee@cu.ac.kr</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Systematic review</li> </ul>	<ul style="list-style-type: none"> <li>6 months</li> </ul>
					<ul style="list-style-type: none"> <li>Analysis plan <ul style="list-style-type: none"> <li>PAROS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>
12	<b>ED Survey</b> Chair: Matthew Ma & Paul Middleton (designate) Statistician: Fahad Siddiqui ( <a href="mailto:fahad.siddiqui@scri.edu.sg">fahad.siddiqui@scri.edu.sg</a> )	In PAROS network emergency departments, in patients with severe sepsis and septic shock [P], is EGDT or its components [E]adhered/implemented/complied [O]	Patrick Ko, Taiwan	<ul style="list-style-type: none"> <li>Paul M Middleton (<a href="mailto:pmmiddleton@ambulance.nsw.gov.au">pmmiddleton@ambulance.nsw.gov.au</a>; <a href="mailto:pmmiddleton@gmail.com">pmmiddleton@gmail.com</a>)</li> <li>Patrick Chow-In Ko (<a href="mailto:patrick.patko@gmail.com">patrick.patko@gmail.com</a>)</li> <li>Irwani Ibrahim (<a href="mailto:irwani_ibrahim@nuhs.edu.sg">irwani_ibrahim@nuhs.edu.sg</a>)</li> <li>Cem Oktay (<a href="mailto:cemoktay@akdeniz.edu.tr">cemoktay@akdeniz.edu.tr</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Systematic review</li> </ul>	<ul style="list-style-type: none"> <li>6 months</li> </ul>
					<ul style="list-style-type: none"> <li>Survey</li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>
13	<b>ED Survey</b> Chair: Matthew Ma & Paul	In OHCA (P), does shortening the response time (I) effect survival (O)?	Chiang Wen-Chu, Taiwan	<ul style="list-style-type: none"> <li>Matthew Ma (<a href="mailto:matthew@ntu.edu.tw">matthew@ntu.edu.tw</a>; <a href="mailto:mattma.tw@gmail.com">mattma.tw@gmail.com</a>)</li> </ul>	<ul style="list-style-type: none"> <li>Systematic review</li> </ul>	<ul style="list-style-type: none"> <li>6 months</li> </ul>
					<ul style="list-style-type: none"> <li>Analysis plan</li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>

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	Middleton (designate) Statistician: Fahad Siddiqui <a href="mailto:fahad.siddiqui@scri.edu.sg">fahad.siddiqui@scri.edu.sg</a>	(1) Survey of definition / measurement of response time (O) of EMS (P) in pan- Asian countries (2) Figure out the variation of response time (E) among pan-asia countries (P) (3) Pool analysis using similar definitions to understand the relationship between response time and survival (O), stratified by witnessed / non-witnessed (E1), with/or without bystander CPR (E2), shockable/nonshockable (E3)		<ul style="list-style-type: none"> <li>• Chiang Wen-Chu  <a href="mailto:drchiang.tw@gmail.com">drchiang.tw@gmail.com</a></li> <li>• Bryan McNally  <a href="mailto:mcnally.bryan@gmail.com">mcnally.bryan@gmail.com</a>;  <a href="mailto:bmcnall@emory.edu">bmcnall@emory.edu</a></li> <li>• G Y Naroo  <a href="mailto:gynaroo@dohms.gov.ae">gynaroo@dohms.gov.ae</a>;  <a href="mailto:dnaroo@yahoo.com">dnaroo@yahoo.com</a></li> </ul>	<ul style="list-style-type: none"> <li>○ PAROS</li> <li>○ CARES</li> </ul>	