### Appendix A – Implementation Survey

Recommendations Related to Time, Opportunities and Funding

Recommendation #1
Strategically market the importance of EMS research to other agencies, health groups and the public.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #2
Strengthen research partnerships between EMS academic centres, systems, regulators, educators and national associations.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #3
Increase funding opportunities for EMS research infrastructure and studies.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #4
Universities should consider EMS providers with graduate training for academic appointments, so they can engage in academic EMS research.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #5
Create opportunities for EMS providers to work in research positions. Review collective agreements if necessary.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

For each of the recommendations above, please describe any related initiatives/programs/projects that you are aware of (planned or ongoing).

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If you have implemented any of these recommendations, describe what resources were required for you to do so.

If you have not implemented any of these recommendations, what resources do you anticipate would be needed (nationally or locally, please specify)?

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**Recommendations Related to Education and Mentorship**

Recommendation #6

Integrate research literacy and research competencies into EMS providers', managers' and EMS physicians' foundational and continuing education.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #7
Provide scholarships for EMS providers, managers and physicians to take research-based graduate degrees.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #8
Information should be purposefully disseminated to EMS providers about EMS research activities occurring in Canada.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

For each of the recommendations above, please describe any related initiatives/programs/projects that you are aware of (planned or ongoing).

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If you have implemented any of these recommendations, describe what resources were required for you to do so.

If you have not implemented any of these recommendations, what resources do you anticipate would be needed (nationally or locally, please specify)?

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**Recommendations Related to the Culture of Research and Research Collaboration in EMS**

Recommendation #9
Increase multidisciplinary strategic partnerships to broaden the topics studied in EMS research.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #10
Engage EMS providers and managers early in the research process and include them on study teams.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #11
EMS systems administrators should budget for research projects during annual strategic planning.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #12
EMS researchers must undertake comprehensive knowledge translation initiatives, including delivering research results to EMS providers and administrators.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #13
Evidence-based decision-making should be encouraged in EMS systems. If evidence is lacking, further research should be undertaken.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #14
The network of Canadians interested in EMS research should be formalized, possibly as a national EMS research organization or conferences.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

For each of the recommendations above, please describe any related initiatives/programs/projects that you are aware of (planned or ongoing).

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If you have implemented any of these recommendations, describe what resources were required for you to do so.

If you have not implemented any of these recommendations, what resources do you anticipate would be needed (nationally or locally, please specify)?

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**Recommendations Related to Structure, Process and Outcomes in EMS Research**

Recommendation #15
EMS researchers and administrators should better inform research ethics boards about the nature of EMS research and request EMS experts participate on review committees.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #16
Highlight EMS research in special issues or sections of the *Canadian Journal of Emergency Medicine.*

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #17
EMS data should be linked with hospital and other datasets.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

Recommendation #18
Create a national EMS data dictionary of operational and clinical terms.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

For each of the recommendations above, please describe any related initiatives/programs/projects that you are aware of (planned or ongoing).

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|  |

If you have implemented any of these recommendations, describe what resources were required for you to do so.

If you have not implemented any of these recommendations, what resources do you anticipate would be needed (nationally or locally, please specify)?

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**Recommendation on the Future Directions of the EMS Research Agenda**

Recommendation #19

The EMS Research Agenda needs to be viewed as an ongoing project.
An implementation, evaluation and renewal plan should be designed and this process should include mapping gaps in EMS research.

Assuming this is possible, if implemented, would this recommendation ***make a difference*** to improving EMS research in your system (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| yes, this will make a big difference |  | this will make somewhat of a difference |  | this will not make a difference | this is not applicable in our system |

How ***easy or difficult*** would it be to implement this recommendation (consider the resources, time, collaborations, etc required) (circle ONE)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 | n/a |
| we have what we need, we can do it! |  | it can be done, with some effort or resources. It is possible to implement. |  | it is not possible to implement. It will take too much effort or resources. | this is not applicable in our system |

For the recommendation above, please describe any related initiatives/programs/projects that you are aware of (planned or ongoing).

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If you have implemented this, describe what resources were required for you to do so.
If you have not implemented this, what resources do you anticipate would be needed (nationally or locally, please specify)?

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|  |

**Demographics**

Please indicate which best describes your current position. (Check the ONE most appropriate answer)

* EMS Researcher
* Paramedic Educator
* EMS Provider
* EMS Manager
* EMS Regulator
* EMS Physician
* EMS Physician Researcher
* EMS Researcher
* Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many years of experience do you have in EMS? \_\_\_\_\_\_\_\_\_\_\_\_ years

Please indicate which institution type is your primary EMS-related affiliation. (check the most appropriate answer(s)):

* EMS service: Provincial service (including EMS Authority/contract administrator)
* EMS service: Municipal non-Fire-based service (including EMS Authority/contract administrator)
* EMS service: Municipal Fire-based service
* EMS service: Private sector EMS contractor/service provider
* EMS service: Hospital-based service
* EMS service: Other
* First response agency *(non-transporting)*
* Government EMS regulator
* EMS medical control agency
* EMS communications centre (independent of operational EMS service agency)
* Hospital
* University
* Other education institution
* Government
* Regulatory college
* Professional association
* Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please indicate the province in which you work:

* Alberta
* British Columbia
* Manitoba
* New Brunswick
* Newfound and Labrador
* Northwest Territories
* Nova Scotia
* Nunavut
* Ontario
* Prince Edward Island
* Quebec
* Saskatchewan
* Yukon