

Expected Outcomes

Our goal is to strengthen the capacity of EMS in the Vientiane Capital. With the strong EMS, we can provide the quality trauma care quickly and effectively to patients of road traffic crashes. If we had a strong capacity of EMS, the rise of the number of road traffic deaths would stop that will bring the improvement to the livelihood of Vientiane citizens.

To strengthen the capacity of EMS in Vientiane Capital, there are 4 expected outcomes that we need to obtain; Severe patients are rapidly transported to hospital, severe patients receive quality care by prehospital care providers, needed resuscitation is provided right after the patient arrival at hospital, and activities to reduce the severity of patients will be conducted (Fig.1).

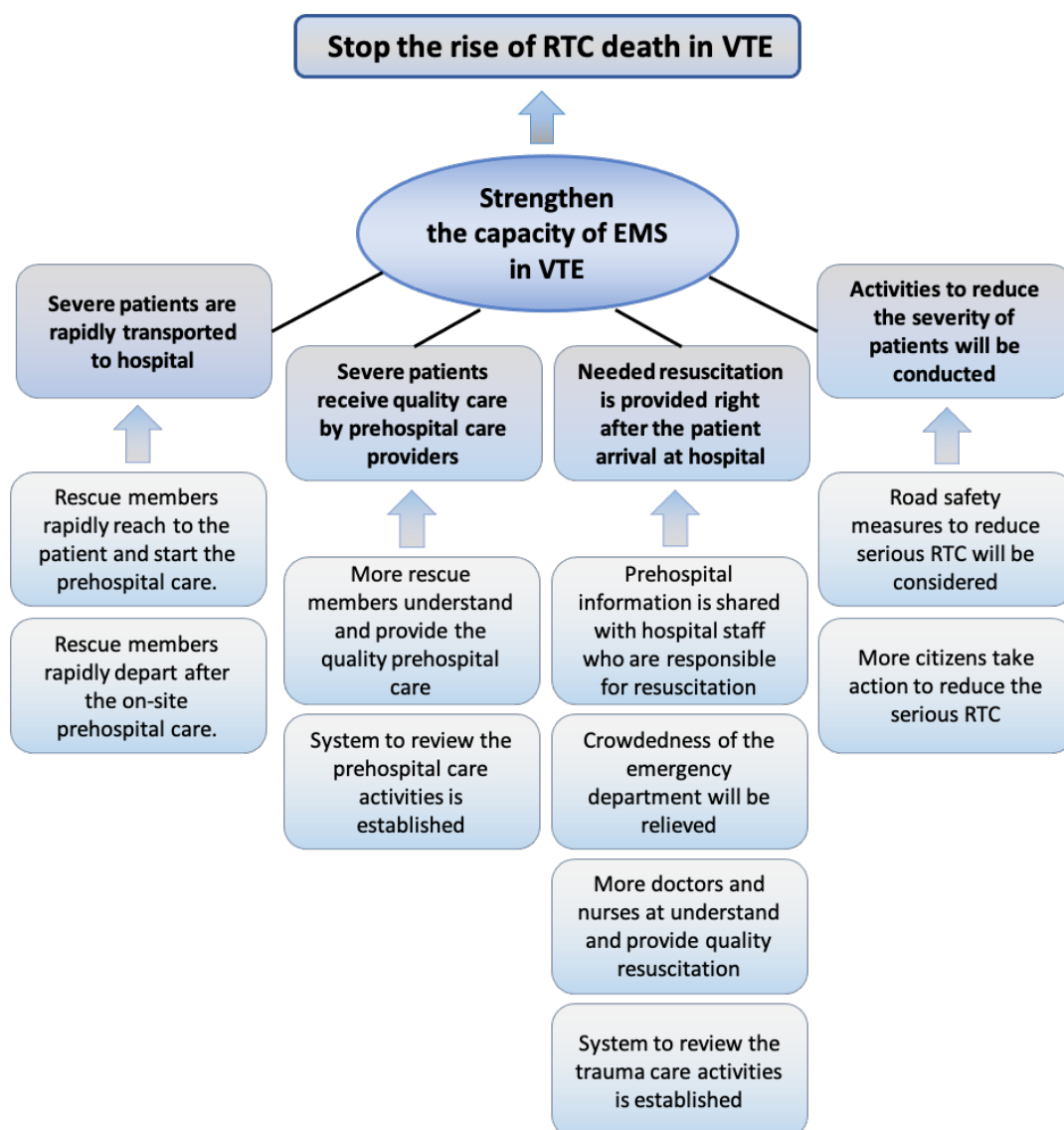


Fig. 1: Expected outcomes in the SAFER project

In order to achieve these 4 outcomes, we will implement 3 main activities mentioned earlier in this guideline: Establish Command and Control Center, Develop Emergency Medical Service Support System (ESS), and Train Lao Emergency Care Professionals (Dispatchers, Prehospital Care Providers, and Emergency doctors and nurses). Fig. 2 shows what we monitor through those implementations for pursuing the outcomes. We will acquire the expected outcomes through observing the conditions and carrying out the activities detailed in the monitoring targets. That is to say:

- Severe patients will be rapidly transported to hospital...
 1. By establishing and operating Command and Control Center (CCC) and emergency call number 1195.
 2. By increasing 1195 calls received at CCC.
 3. By developing and implementing ambulance dispatch protocols for dispatchers and rescue teams.
 4. By holding the dispatch and command trainings and TOT of dispatch and command.
 5. By Introducing ESS to the ambulances which makes it possible to monitor the location by ambulance-monitoring system
 6. By developing and implementing EMS transport protocols for on-site operations.
 7. By shortening the time interval between RTC and the provision of first prehospital care.
 8. By shortening the time interval between the provision of first prehospital care and the ambulance on-site departure.

- Severe patients receive quality care by prehospital care providers...
 1. By holding the prehospital care trainings and TOT of prehospital care.
 2. By developing and operating curricula and textbooks on the prehospital care.
 3. By collecting the accurate data recorded by ESS.
 4. By holding post-crash reviews with prehospital care records.
 5. By Increasing in the number of rescue members and doctors who are able to conduct post-crash reviews with prehospital care records.

- Needed resuscitation is provided right after the patient arrival at hospital...
 1. By being enough prepared and providing resuscitation to trauma patients with the prehospital information sent by ESS.
 2. By setting up the trauma team for severe trauma patients before their arrival.
 3. By increasing in the number of non-severe patients transported to Mahosot and Setthathirath hospital.
 4. By establishing and operating the emergency consultation center.
 5. By holding the emergency health advising trainings and TOT of the emergency health advising.

6. By holding the resuscitation trainings and TOT of the resuscitation.
7. By developing and operating curricula and textbooks on resuscitation.
8. By recording discharge outcomes of trauma patients transported by ambulance.
9. By holding post-crash reviews with in-hospital trauma patient records.
10. By increasing in the number of doctors and nurse able to conduct post-crash reviews with in-hospital trauma patient records.

- Activities to reduce the severity of patients will be conducted
 1. By holding meetings to discuss road safety measures that lead to a reduction in serious road crashes.
 2. By identifying the locations where serious road traffic crashes have occurred.
 3. By holding seminars and trainings for citizens to reduce serious road traffic crashes.

Expected Outcomes	Monitoring Targets
Severe patients are rapidly transported to hospital	<ol style="list-style-type: none"> 1. Establish and operate Command and Control Center (CCC) and emergency call number 1195. 2. Increase 1195 calls received at CCC. 3. Develop and implement ambulance dispatch protocols for dispatchers and rescue teams. 4. Hold the dispatch and command trainings and TOT of dispatch and command 5. Introduce ESS to the ambulances and be able to monitor the location by ambulance-monitoring system 6. Develop and implement EMS transport protocols for on-site operations 7. Shorten the time interval between RTC and the provision of first prehospital care 8. Shorten the time interval between the provision of first prehospital care and the ambulance on-site departure
Severe patients receive quality care by prehospital care providers	<ol style="list-style-type: none"> 1. Hold the prehospital care trainings and TOT of prehospital care 2. Develop and operate curricula and textbooks on the prehospital care 3. Collect accurate data recorded by ESS 4. Hold post-crash reviews with prehospital care records 5. Increase in the number of rescue members and doctors who are able to conduct post-crash reviews with prehospital care records
Needed resuscitation is provided right after the patient arrival at hospital	<ol style="list-style-type: none"> 1. Be enough prepared and provide resuscitation to trauma patients by making use of the prehospital information sent by ESS 2. Set up the resuscitation team for severe trauma patients before their arrival 3. More non-severe patients are transported to Mahosot and Setthathirath hospital 4. Establish and operate the emergency consultation center 5. Hold the emergency health advising trainings and TOT of emergency health advising 6. Hold the resuscitation trainings and TOT of the resuscitation. 7. Develop and operate curricula and textbooks on resuscitation 8. Record discharge outcomes of trauma patients transported by ambulance 9. Hold post-crash reviews with in-hospital trauma patient records 10. Increase in the number of doctors and nurse able to conduct post-crash reviews with in-hospital trauma patient records
Activities to reduce the severity of patients will be conducted	<ol style="list-style-type: none"> 1. Hold meetings to discuss road safety measures that lead to a reduction in serious road crashes 2. Identify the locations where serious road traffic crashes have occurred 3. Hold seminars and trainings for citizens to reduce serious road traffic crashes

Fig. 2: Expected outcomes and monitoring targets