## The Utstein Template for documenting and reporting in physician-staffed pre-hospital services.

Defining a minimum core data set for a common European standard.

AIM: To establish a common core data set with definitions for activity documentation and shared research efforts. Core variables should be pos

| Fixed system va       | riables.    |                         |                              |                                    |
|-----------------------|-------------|-------------------------|------------------------------|------------------------------------|
|                       |             | between services and/or | countries. Ask yourself: "wl | hat would I like to know if I were |
| No of expert proposal | Expert no 1 | Expert no 2             | Expert no 3                  | Expert no 4                        |
| 12                    | 10          |                         | 10                           | 10                                 |
| 5                     | 6           |                         |                              | 6                                  |
| 5                     | 7           |                         | 9                            | 7                                  |
| 3                     | 5           | 10                      | 2                            | 8                                  |
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| 5                     | 8           | 5                       | 5                            | 9                                  |
| 6                     | 9           | 1                       |                              | 4                                  |
| 1                     |             | 8                       | 3                            | 5                                  |
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| <b>Event operationa</b>    | I descriptors                |                              |                        |                        |
| Definition: Variables rela | ated to indication for dispa | tch, timelines for event and | d logistics.           |                        |
| No of expert proposal      | Your ranking from 10-1       | Your ranking from 10-1       | Your ranking from 10-1 | Your ranking from 10-1 |
| 13                         | 10                           | 10                           | 10                     | 8                      |
| 11                         | 9                            | 9                            |                        | 9                      |
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| Patient descripto                     |                              |  |                        |                        |
| Definition: Patient chara             | acteristics such as age, ger | nder, co-morbidity eg.                           |                        |                        |
|                                       | Your ranking from 10-1       | Your ranking from 10-1                           | Your ranking from 10-1 | Your ranking from 10-1 |
| 10                                    | 9                            | 2  | 10                     | 5                      |
| 10                                    | 8                            | 1  | 9                      | 4                      |
| 11                                    | 10                           |  | 8                      | 10                     |
| 5                                     | 3                            |  | 7                      | 8                      |
| 6                                     | 7                            |  |                        | 9                      |
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| 2                                     | 5                            | 3  | 4                      |                        |
| 2                                     | 1                            |  |                        | 3                      |
| 3                                     |                              |  | 6                      | 7                      |
| 3                                     | 6                            | 4  | 5                      | 6                      |
| 2                                     |                              | 8  |                        |                        |
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| <b>Process mapping</b>     |                          |                             |                           |                        |
|----------------------------|--------------------------|-----------------------------|---------------------------|------------------------|
| Definition: Variables rela | ated to what happened to | the patient, such as treatm | ents and procedures perfo | rmed.                  |
| No of expert proposal      | Your ranking from 10-1   | Your ranking from 10-1      | Your ranking from 10-1    | Your ranking from 10-1 |
| 14                         | 10                       | 10                          |                           | 10                     |
| 5                          | 8                        | 7                           |                           | 9                      |
| 4                          | 6                        |                             | 6                         | 3                      |
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| Outcome measur          | es or Quality Indic     |                           |                        |                        |
|-------------------------|-------------------------|---------------------------|------------------------|------------------------|
| Definition: Suggest any | outcome measures or qua | e-hospital phase of care. |                        |                        |
| No of expert proposal   | Your ranking from 10-1  | Your ranking from 10-1    | Your ranking from 10-1 | Your ranking from 10-1 |
| 4                       | 10                      | 10                        | 9                      | 10                     |
| 1                       | 8                       | 3                         |                        |                        |
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| 1 | 9 |   |    | 5 |
| 1 |   |   | 8  |   |
| 1 | 4 | 4 |    |   |
| 1 |   | 2 |    |   |
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ssible to collect routinely, and should be easy to adapt to most excisting softwares.

| to compare my resu | ults with another service?" |             |             |
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| Expert no 5        | Expert no 6                 | Expert no 7 | Expert no 8 |
| 6                  | 3                           | 10          | 8           |
| 9                  | 8                           | 7           | 9           |
| 7                  |                             | 9           | 7           |
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| 1                  | 4                           | 5           |             |
| 5                  | 7                           | 8           | 1           |
| 4                  | 10                          | 4           |             |
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| 8                  | 5                           | 1           |             |
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| Your ranking from 10-1     | Your ranking from 10-1      | Your ranking from 10-1   | Your ranking from 10-1   |
| Your ranking from 10-1     | Your ranking from 10-1      | Your ranking from 10-1   | Your ranking from 10-1 7 |
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| 10                         | 1                           | 7                        | 7                        |
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| 10                         | 1 2                         | 7<br>1<br>3              | 7                        |
| 10                         | 1 2                         | 7<br>1<br>3              | 7                        |
| 10                         | 1 2                         | 7<br>1<br>3              | 7                        |
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| Your ranking from 10-1           | Your ranking from 10-1 | Your ranking from 10-1      | Your ranking from 10-1                |
| 9                                | 3                      |                             |                                       |
|                                  | 1                      |                             | 7                                     |
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| 8                                | 1<br>2                 | 9                           | 7<br>6                                |
| 8<br>10                          | 1<br>2<br>7            | 9<br>8<br>7                 | 7<br>6<br>10                          |
| 8<br>10<br>6                     | 1<br>2                 | 9<br>8<br>7<br>10           | 7<br>6<br>10<br>5                     |
| 8<br>10<br>6<br>5                | 1<br>2<br>7<br>4       | 9<br>8<br>7<br>10<br>3      | 7<br>6<br>10<br>5<br>8                |
| 8<br>10<br>6<br>5<br>7           | 1<br>2<br>7            | 9<br>8<br>7<br>10<br>3<br>5 | 7<br>6<br>10<br>5                     |
| 8<br>10<br>6<br>5<br>7<br>2      | 1<br>2<br>7<br>4<br>3  | 9<br>8<br>7<br>10<br>3<br>5 | 7<br>6<br>10<br>5<br>8<br>9           |
| 8<br>10<br>6<br>5<br>7<br>2<br>3 | 1<br>2<br>7<br>4       | 9<br>8<br>7<br>10<br>3<br>5 | 7<br>6<br>10<br>5<br>8<br>9           |
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| Your ranking from 10-1 |
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| 10                     | 1                      | 10                     | 10                     |
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| 9                      | 3                      | 8                      | 8                      |
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| Your ranking from 10-1 |
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| 10                     |                        | 1                      |                        |
| 7                      | 6                      | 8                      | 8                      |
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| Expert no 9 | Expert no 10 | Expert no 11 | Expert no 12 |
|-------------|--------------|--------------|--------------|
| 9           | 1            | 10           | 8            |
| 6           |              | 9            | 10           |
| 10          | 2            |              | 9            |
| 3           | 3            |              | 2            |
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| V                      | Your ranking from 10-1   | Your ranking from 10-1   | Your ranking from 10-1   |
| Your ranking from 10-1 | 1 Your ranking from 10-1 | I Your ranking from 10-1 | 1 Your ranking from 10-1 |
| 10                     | <u> </u>                 |                          | 0                        |
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| 10<br>9<br>            |                          | 9                        | 2                        |
| 10<br>9<br>            | 4                        | 9                        | 2                        |
| 10<br>9<br>            | 10                       | 9 3                      | 2                        |
| 10<br>9<br>            | 4                        | 9 3                      | 9<br>2<br>8              |
| 10<br>9<br>            | 10                       | 9 3                      | 9<br>2<br>8              |
| 10<br>9<br>            | 10                       | 9 3                      | 9<br>2<br>8              |
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| Your ranking from 10-1 |
| 9                      | 1                      | 10                     | 2                      |
| 8                      | 2                      | 9                      | 3                      |
| 10                     |                        | 8                      | 1                      |
|                        |                        | 6                      | 4                      |
| 7                      | 5                      | 7                      | 8                      |
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| 3                      | 9                      |                        | 10                     |
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| Your ranking from 10-1 |
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| 10                     | 1                      | 10                     | 1                      |
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| 9                      |                        |                        | 5                      |
| 2                      | 6                      |                        |                        |
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| 5                      | 5                      |                        |                        |
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|                        | 3                      |                        |                        |

| 7 |    | 8 | 7  |
|---|----|---|----|
|   |    |   |    |
|   |    |   |    |
| 6 |    |   |    |
| 3 | 4  |   |    |
|   | 10 |   |    |
|   |    | 7 | 4  |
|   |    |   |    |
|   |    |   |    |
|   |    | 3 | 10 |
|   |    |   | 9  |
|   | 8  |   |    |
|   |    | 2 |    |
|   | 9  |   |    |
| 4 |    |   |    |
|   |    |   |    |
|   |    | 6 | 2  |
|   | _  | 4 | 3  |
|   | /  |   |    |
|   |    | - |    |
|   |    | 5 |    |
|   |    | 1 |    |
|   |    |   |    |
|   |    |   |    |
|   |    |   |    |
|   |    |   |    |
|   |    |   |    |

| Your ranking from 10-1 |
|------------------------|------------------------|------------------------|------------------------|
|                        |                        |                        | 2                      |
| 9                      | -6                     | 5                      | 7                      |
| 6                      | 1                      | 2                      |                        |

| 4  | 7  |    | 9 |
|----|----|----|---|
|    |    |    |   |
| 8  | 2  |    | 3 |
|    |    | 3  |   |
|    | 8  | 7  |   |
| 1  | 10 | 6  |   |
| 7  |    |    | 5 |
|    |    |    |   |
|    |    |    | 6 |
| 2  | -5 |    |   |
|    |    | 4  | 8 |
| 10 |    |    |   |
|    |    |    | 4 |
|    | 9  |    |   |
|    | 4  | 8  |   |
|    |    | 10 |   |
| 5  |    |    |   |
|    | 3  |    |   |
|    |    | 9  |   |
|    |    |    |   |
| 3  |    | 1  |   |
|    |    |    |   |
|    |    |    |   |
|    |    |    |   |
|    |    |    | 1 |

| Expert no 13 | Expert no 14 |     | Data point                            |
|--------------|--------------|-----|---------------------------------------|
| 9            | 10           | 104 | Service Area                          |
| 7            | 5            | 82  | Population                            |
|              | 7            | 74  | Crew composition                      |
| 6            | 4            | 69  | Mission types                         |
|              |              |     | -                                     |
|              |              |     |                                       |
|              |              |     |                                       |
|              |              |     |                                       |
| 10           |              | 58  | mode of transportation                |
|              | 8            | 51  | Operating hours                       |
| 2            | 2            | 45  | Activation criteria                   |
| 8            | 3            | 45  | Response time                         |
| 5            |              | 37  | Number of responses/missions per year |
|              | 6            | 35  | Service Area                          |
| 3            | 9            | 22  | Annual nb of responses                |
|              |              | 20  | Intubation rate                       |
|              | 1            | 20  | Categorization of missions            |
| 4            |              | 18  | MD-ALS unit hours per 100,000         |
|              |              | 18  | dispatch system                       |
|              |              | 17  | median response time ambulance        |
|              |              | 13  | tier response                         |
|              |              | 12  | MD-ALS unit hours (service area)      |
| 1            |              | 9   | M,W (s), Z statistic                  |

|                        |                        | 7  | Percentage of physician assisted runs in relation |
|------------------------|------------------------|----|---|
|                        |                        | 7  | In-hospital training                              |
|                        |                        | 6  | Training level                                    |
|                        |                        | 6  | Type of hospitals in coverage area                |
|                        |                        | 5  | Percentage of runs aborted en route               |
|                        |                        | 3  | Rescue system                                     |
|                        |                        | 2  | Funding of service                                |
|                        |                        | 2  | distance/time to trauma center                    |
|                        |                        |    | Non MD-ALS unit hours per 100,000                 |
|                        |                        |    | fixed base  |
|                        |                        |    | Equipment   |
|                        |                        |    | Non MD-ALS unit hours (service area)              |
|                        |                        |    | experience of physician in HEMS                   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        | +                      |    |   |
| Your ranking from 10-1 | Your ranking from 10-1 |    | Data point  |
| Tour farming from 10 1 | 9                      | 83 | Mission time                                      |
|                        | 10                     | 76 | Type of dispatch                                  |
|                        |                        |    | - Jpc c. d.oputo                                  |
|                        |                        |    |   |
| 8                      |                        | 44 | tune of transportation                            |
|                        |                        |    | type of transportation                            |
|                        | 5                      | 36 | type of transportation  Mission outcome           |
|                        | 5                      |    |   |
|                        | 5                      |    |   |
|                        | 5                      |    |   |
| 3                      | 5                      |    |   |
|                        | 5                      | 36 | Mission outcome                                   |
|                        | 5                      | 28 | Mission outcome  Medical                          |
|                        | 5                      | 28 | Mission outcome  Medical                          |
|                        | 5                      | 28 | Mission outcome  Medical                          |
|                        | 5                      | 28 | Mission outcome  Medical                          |
|                        | 5                      | 28 | Mission outcome  Medical                          |

|                        |                        | 11 | Time from alarm to hospital arrival         |
|------------------------|------------------------|----|---|
|                        |                        | 10 | Total time in service                       |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        | 2  | Means of transport to scene                 |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
|                        |                        |    |   |
| Your ranking from 10-1 | Your ranking from 10-1 |    | Data point                                  |
| 9                      | 10                     | 93 | age   |
| 8                      | 9                      | 85 | gender                                      |
|                        | 3                      | 84 | Co-morbidity                                |
| 10                     | 7                      | 70 | Medical problem (main reason for response): |
|                        | 5                      | 64 | RTS delta/MEES                              |
| 7                      | 8                      | 58 | GCS, HR, Syst blpr, ecg,rr,spO2,pain        |
| 4                      |                        | 41 | mechanism of injury                         |
|                        |                        | 35 | NACA  |
| 6                      |                        | 32 | Injury Severity Score                       |
| 5                      | 1                      | 31 | Patient Category                            |
|                        |                        | 27 | SpO2  |
| 2                      |                        | 22 | Heart rate and rythm                        |

| 3 |   | 17 | pain assesment                               |
|---|---|----|--|
|   |   | 15 | cardiac arrest                               |
|   |   | 11 | GCS on arrival                               |
| 1 |   | 11 | BP(systolic)                                 |
|   |   | 11 | Respiratory Rate                             |
|   | 4 | 11 | Vital data before and after treatment        |
|   |   | 10 | Dominating type of injury                    |
|   |   | 9  | SBP on arrival                               |
|   | 2 | 8  | prehospital airway management                |
|   |   | 8  | HR categories                                |
|   |   | 7  | Survival status upon leaving patient         |
|   | 6 | 6  | condition when met compared to alarm informa |
|   |   | 4  | GCS on admission                             |
|   |   | 2  | RTS on admission                             |
|   |   | 1  | Dominationg type of medical incident         |
|   |   | 1  | AIS region(s) with score>2                   |
|   |   | 0  | In trauma: position in vehicle               |
|   |   | 0  | In medical: situation of patient             |
|   |   | 0  | social situation                             |
|   |   | 0  | Drug-abuse                                   |

| Your ranking from 10-1 | Your ranking from 10-1 |     | Data point                       |
|------------------------|------------------------|-----|----------------------------------|
| 10                     | 9                      | 102 | Airway management                |
| 1                      |                        | 70  | Diagnostic intervention          |
| 9                      | 7                      | 68  | Medication                       |
| 2                      |                        | 55  | Surgical intervention            |
| 6                      | 10                     | 38  | immediate outcome                |
| 7                      | 6                      | 35  | ventilation                      |
|                        | 8                      | 34  | procedures                       |
|                        |                        | 31  | CPR                              |
|                        |                        | 28  | Vascular intervention            |
| 8                      | 5                      | 28  | In CA: CPR started by bystander? |

|                        |                        | 25   | iv access                                     |
|------------------------|------------------------|------|---|
|                        |                        | 22   | Other intervention                            |
|                        |                        | 20   | Consequence: changed admittance, changed or   |
| 5                      |                        | 19   | late outcome                                  |
|                        |                        | 19   | Monitoring                                    |
|                        |                        | 16   | If yes: type of airway management             |
|                        |                        | 15   | i.o. access                                   |
|                        | 1                      | 13   | Diagnostic importance of physician?           |
|                        | 3                      | 13   | Theraperutic importance of phsysician         |
|                        |                        | 13   | Enrollment in scientific protocol             |
|                        |                        | 12   | Hemostasis                                    |
| 3                      |                        | 11   | Ventilation                                   |
|                        |                        | 9    | Non-invasive interventions                    |
|                        |                        | 9    | Immobilised                                   |
|                        | 4                      | 8    | trombolysis?                                  |
|                        |                        | 8    | Basic medical help provided by bystander?     |
|                        |                        | 8    | Ultrasound diagnostics                        |
|                        |                        | 7    | Thoracic drainage                             |
|                        |                        | 7    | Adjuncts                                      |
| 4                      |                        | 5    | IN CA: Airway secured by other EMS unit?      |
|                        |                        | 5    | Blood sample on scene                         |
|                        | 2                      | 3    | prehospital care at all                       |
|                        |                        | 2    | blood test on scene                           |
|                        |                        | 2    | If yes: could treatment have been provided by |
|                        |                        | 1    | Incubator                                     |
|                        |                        |      | Other persons at site?                        |
|                        |                        |      | CPR   |
|                        |                        |      |   |
|                        |                        |      |   |
|                        |                        |      |   |
| Your ranking from 10-1 | Your ranking from 10-1 |      | Data point                                    |
| 8                      | 9                      | 69   | Delta MEES                                    |
| 0                      |                        | - 07 | DOTA MELO                                     |

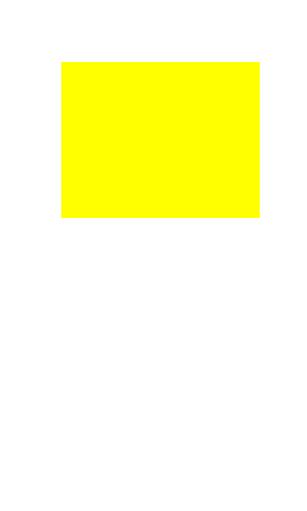
63

51

Survival status

Glasgow Outcome Scale

| 7  | 6  | 41 | Precision of dispatch code (retrospectively)          |
|----|----|----|---|
| 5  |    | 40 | ICU-Time  |
|    | 7  | 36 | Delta RTS   |
| 10 |    | 36 | LOS in-hospital                                       |
|    | 8  | 30 | Delta GCS   |
|    | 9  | 29 | EtCo2, SpO2, RR, HR, SBP before and after trea        |
|    |    | 28 | Complication  |
| 6  |    | 27 | VAS (visual analogue pain score) at arrival and       |
|    | 10 | 24 | HEMS benefit score                                    |
| 4  | 4  | 22 | hospital of arrival= hospital of definitive treatment |
|    |    | 22 | Discharge destination                                 |
|    |    | 21 | Final diagnosis                                       |
|    |    | 20 | W statistic   |
|    |    | 20 | need for transport                                    |
|    | 3  | 19 | Hospital response                                     |
|    |    | 18 | HR, RF at arrival and at arrival in hospital          |
|    |    | 17 | Adherence to treatment protocols in any given p       |
| 2  |    | 13 | Abbreviated Injury Scale (AIS)                        |
|    |    | 10 | BP (MAP) at arrival and at arrival in hospital        |
|    |    | 9  | Any intended procedure not carried out                |
|    |    | 7  | first unit dispatched= highest level unit on scen     |
| 1  |    | 7  | Quality of life                                       |
|    |    | 6  | NACA upon arrival of EMS personnel at scene           |
|    |    | 4  | Validy of activation                                  |
|    |    | 2  | Valid alternatives                                    |
|    |    | 1  | number of procedures before succes (above)            |



| Core/optional |
|---------------|
| Core          |
| Core          |
| Core          |
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| n to total ambulance runs   | Optional   |
|---|--|
|   | Core   |
|   | Core   |
|   | Optional   |
|   | Optional   |
|   | core   |
|   | optional   |
|   | optional   |
| defined as data variable 32 in utstein trauma, exept replace pl   |  |
| defined as data variable 32 in utstein trauma, exept replace pl<br>As defined 4 times; call dispatch- unit arrival on-scene- patien   | nysician and at sce <b>core</b><br>t leaving scene- a Core   |
| Group meeting 1  defined as data variable 32 in utstein trauma, exept replace pl As defined 4 times; call dispatch- unit arrival on-scene- patien  ground ambulance, helicopter, fixed-wing, other, no transportation aborted te  | nysician and at sce <b>core</b> It leaving scene- a Core It leaving scene- a Core It leaving scene- a Core |
| defined as data variable 32 in utstein trauma, exept replace pl<br>As defined 4 times; call dispatch- unit arrival on-scene- patien<br>ground ambulance, helicopter, fixed-wing, other, no transporta<br>Patient attended, mission aborted weather, mission aborted te          | nysician and at sce <b>core</b> It leaving scene- a Core It leaving scene- a Core It leaving scene- a Core |
| defined as data variable 32 in utstein trauma, exept replace plas defined 4 times; call dispatch- unit arrival on-scene- patient ground ambulance, helicopter, fixed-wing, other, no transportable Patient attended, mission aborted weather, mission aborted tellin in 49      | nysician and at sce <b>core</b> It leaving scene- a Core It leaving scene- a Core It leaving scene- a Core |
| defined as data variable 32 in utstein trauma, exept replace place place defined 4 times; call dispatch- unit arrival on-scene- patient ground ambulance, helicopter, fixed-wing, other, no transportable Patient attended, mission aborted weather, mission aborted technique. | nysician and at scecore t leaving scene- a Core ation as in no 27 u core chnical, no need Core             |
| defined as data variable 32 in utstein trauma, exept replace pl<br>As defined 4 times; call dispatch- unit arrival on-scene- patien<br>ground ambulance, helicopter, fixed-wing, other, no transporta<br>Patient attended, mission aborted weather, mission aborted te<br>in 49 | nysician and at scecore t leaving scene- a Core ation as in no 27 u core chnical, no need Core  core       |
| defined as data variable 32 in utstein trauma, exept replace pl<br>As defined 4 times; call dispatch- unit arrival on-scene- patien   | nysician and at scecore t leaving scene- a Core ation as in no 27 u core chnical, no need Core  core       |

| in 48   | optional  |
|---|---|
| in 48   | Core  |
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| in system characteristics   | optional  |
| n system characteristics  | υμιιστιαι   |
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|   |   |
|   | Core/optional   |
|   | core  |
|   | core<br>core  |
| as defined in Utstein trauma  | core<br>core<br>core  |
| as defined in Utstein trauma as defined in Utstein trauma Needs to be discussed according to categorization. FHQ? Extended. | core<br>core<br>core<br>Core                                |
| Needs to be discussed according to categorization. FHQ? Extended.   | core<br>core<br>core<br>Core<br>core                        |
| Needs to be discussed according to categorization. FHQ? Extended.   | core core Core core Core Core                               |
| Needs to be discussed according to categorization. FHQ? Extended. Out First and last, raw values                            | core core Core core Core core core                          |
| Needs to be discussed according to categorization. FHQ? Extended. Out first and last, raw values                            | core core Core core Core Core                               |
| Needs to be discussed according to categorization. FHQ? Extended.  Out  First and last, raw values  Out  Out                | core           |
| Needs to be discussed according to categorization. FHQ? Extended. Out first and last, raw values                            | core |
| Needs to be discussed according to categorization. FHQ? Extended.  Out  First and last, raw values  Out  Out                | core           |

| out                      | core          |
|--------------------------|---------------|
| out                      | core          |
| out                      | optional      |
| out                      | core          |
| out                      | Optional      |
| moves to outcome section | core          |
| out                      | core          |
| out                      | Optional      |
| out                      | Core          |
|                          |               |
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|                          |               |
|                          | Core/optional |
|                          | core          |

|                                 | core           |
|---------------------------------|----------------|
|                                 | Core           |
| ew inititated treatment         | Core           |
|                                 | core           |
|                                 | core           |
|                                 | Optional       |
|                                 | core           |
|                                 | Core           |
|                                 | Core           |
|                                 | Optional       |
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|                                 | Core           |
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| her resource within 10 minutes? | Core           |
|                                 | Optional       |
|                                 | Core           |
|                                 | Optional       |
|                                 |                |
|                                 |                |
|                                 | Oans (antique) |
|                                 | Core/optional  |

| tment/management       |   |
|------------------------|---|
|                        |   |
| at arrival in hospital |   |
|                        |   |
| ent                    |   |
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|                        |   |
|                        |   |
| patient                |   |
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| J                      | • |

| Variable categories  | Exact definition of data point                     |
|--|--|
| Predfined string: Type of education/speciality                         | Specialist in anaesthesiology, in training for spe |
| Number   |  |
| Predfined string: When performing ALS or other advanced effort: who is | HEMS Paramedic, HEMS anesthetic nurse, HEMS        |
| trauma/internal/mix of missions, OB-GYN, newborn, interhospital transf | er   |
| 1 = ground ambulance   | Main type of transportation vehicle (if multiple   |
| 2 = helicopter ambulance   | chose vehicle used for the majority of the         |
| 3 = fixed-wing ambulance   | transportation phase)                              |
| 4 = not transported  |  |
| 5 = unknown  |  |
| Predefined string: When is your pysician-staffed service operational?  | 24/7, all week day and evening, all week only d    |
| 1 = criteria based; 2 = consultation w/ physician; 3 = both            | Description of how decision of response is taken   |
|  |  |
|  |  |
| Squared kilometres   |  |
| Continuous   | Number of activated responses annually             |
|  |  |
| 1 = Primary; 2 = Inter-hospital; 3 = SAR; 4 = Other                    | Categorization of different types of mission with  |
|  | as from Unit hours ALS 'European Emergency D       |
| alarm center/special HEMS center/                                      |  |
|  |  |
|  |  |
|  | Annual unit hours of physician ALS per km2 of s    |
|  |  |

| Number: Number of months per year  | % of full time work                               |
|--|---|
| Number: Number of years in pre-hospital service                          | Months (full time work)                           |
|  |   |
|  |   |
| 1 = fixed system, 2 = Rendez-vous system                                 | 1 = Physician and Paramedics use the same ver     |
| state/commercial/private funded  |   |
|  |   |
|  | as from Unit hours ALS 'European Emergency D      |
| yes/no   | Vantilator (advanced) vantilator (simple) Defil   |
| Predfined string: types of equipment                                     | Ventilator (advanced), ventilator (simple), Defik |
| Vr.  | as above  |
| yr   |   |
|  |   |
|  |   |
|  |   |
| Variable categories  | Exact definition of data point                    |
| define when does patient leave scene,                                    |   |
| Predefined string:   | Emergency medical mission, emergency trauma       |
|  |   |
| patient transportation   |   |
| Mission: unit dispatched but no patient contact.                         | Operational, other higher priority mission, upda  |
| wission. Unit dispatched but no patient contact.                         | Toperational, other higher phonty mission, upda   |
|  |   |
|  |   |
| 1 = ACS, 2 = stroke, 3 = other cardiovascular, 4 = airway & breathing,   | 5 = seizure, 6 = unconsciousness, 7 = endocrino   |
| (i.e. ambulatory care, transport without physicians, transport with phys |   |
|  |   |
|  |   |
|  |   |
|  |   |
| 1 = airway/breathing, 2 = cardiovasc., 3 = seizure, 4 = infectious, 5 =  | other   |
|  |   |
|  |   |

|   | as from Utstein trauma registry   |
|---|---|
|   | as from Utstein trauma registry  In the event of ambulance run aborted en route |
|   | In the event of ambulance run aborted en route                                  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| 1 ground ambulance 2 car 3 helicopter 4 other                       | The type of vehicle that transported the physici                                |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| Variable categories   | Exact definition of data point  |
| variable categories   | Exact definition of data point  |
|   |   |
| Pre event ASA classification  |   |
| ICD-10  | X.XX  |
| Revised Trauma Score/ Mainz Emergency Evaluation Scoring            | N.M.  |
| Revised Traditia Score/ Mainz Emergency Evaluation Scoring          |   |
| as from Utstein Trauma Registry + burns and drowning                |   |
| Ordinal (1-7) according to NACA                                     | Classification of the medical severity (on-scene                                |
| Ordinal (1-1) according to NACA                                     | classification of the medical severity (off-scelle                              |
| Blunt trauma/penetrating trauma/non-trauma (incl drownings and      | hurns/unknown   |
| Total tradition penetrating tradition-tradition (file drownings and | DUITIS/ UITRITUWIT  |
| CD/FA/CVT/ata   |   |
| SR/FA/SVT/etc   |   |

|   | VAS score  |
|---|--|
| 1 yes on arrival 2 yes after arrival 3 never                            | whether CA occurred at any time before arrival         |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 1 = <100, 2 = >100  |  |
|   | If pertinent (Excluding missions without any pa        |
| same/worse/better   |  |
| Eye-, verbal- and motor-score   | GCS on admission and/or after necessary interv         |
| Ordinal (according to Utstein Trauma Registry)                          | Revised Trauma Score (RTS) categories with cli         |
|   |  |
| AIS regions   |  |
| String (predfined):   | Driver, passenger front, backseast right, backse       |
| String (predfined):   | Home, stairs, elevator, pavement, other outdoo         |
| (i.e. homeless, deprivation, criminal background)                       | <del>_</del>   |
| String (predfined):   | Herione, Other opioid, Cocaine, Amphetamine, (         |
|   |  |
|   |  |
|   |  |
| Variable categories   | Exact definition of data point                         |
| According to Utstein Airway   |  |
| Nominal   | 1 = Ultrasound; 2 = Invasive pressure monitori         |
| analg/cardiac/sedation/inotropic/etc                                    | According to ATC (4th level)                           |
| Nominal   | 1 = thoracostomy (incl needle-decompression);          |
| 1 dead on scene-no treatment 2 dead on scene after treatment 3 tran     | nsported alive to hospital                             |
| spont//CPAP/hand assist/mech  |  |
| 1 IV line 2a IV drugs 2b fibrinolysis 3 nebulization 4 bag mask ventila | ation 5 supraglottic device 6 intubation & ventilation |
|   |  |
| Nominal   | Registration according to Utstein template for ca      |
| Nominal Nominal   |  |

| Nominal   | 1 = CPR; 2 = defibrillation; 3 = cardioversion; |
|---|---|
| Y/N   |   |
| 1 alive 2 dead  | outcome at 30 days                              |
| 1 = BP, 2 = pulse oximetry, 3 = ECG, 4 = capnography                      |   |
| String (predfined):   |   |
|   |   |
| Y/N   |   |
| Y/N   |   |
|   |   |
|   |   |
| 1 = manual BV, 2 = ventilator   |   |
| 1 = iv access, 2 = io access, 3 = iv/io drug, 4 = oxygen spont. breathing | g, 5 = BVMV, 6 = supraglottic device            |
|   |   |
|   |   |
| Y/N   |   |
|   |   |
|   |   |
| 1 = telemetric ECG-transmission   |   |
| Y/N   |   |
|   |   |
|   |   |
|   |   |
| Y/N   |   |
|   |   |
| Y/N   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| Variable categories   | Exact definition of data point                  |

physiological scoring before and after intervention HR, RF, Pain, GCS, SBT

1 = Dead; 2 = Alive; 3 = Unknown

Alive or dead 30 days after event

5 = Good Recovery; 4 = Moderate disability; 3 = Severe disability; 2 = FGlasgow Outcome Scale - at discharge from ma

| 1 yes 2 no, verified higher 3 no, verified lower                     | ]   |
|--|---|
| Number   | days  |
| at arrival and at arrival in hospital                                |   |
| Number   | days  |
| worst before intervention vs. best after intervention                |   |
| To be decided  | Categorization of unexpected events during treation |
| 0-8  |   |
| 1 yes 2 no   |   |
| 1 = Home; 2 = Rehab; 3 = Morgue; 4 = Higher treatment level; 5 = And | The patient's destination after end of acute care   |
| Ordinal  | Diagnosis on discharge according to ICD-10 (co      |
|  | J Trauma. 2005 Jun; 58(6): 1272-6; discussion 1     |
| yes/no   |   |
| To be decided  | An categorized evaluation of the level of the rec   |
| Ordinal  | AIS severity codes that reflect the injuries        |
|  |   |
| 1 yes 2 no   |   |
| EQ-5D (and HUI)  |   |
| worst before intervention vs. best after intervention                |   |
| To be decided  | Evaluation of mission content versus activation     |
| To be decided  | Categorization of equal medical alternatives giv    |

| Comments for discussion  scialty in anaesthesiology, Specialist in emergency medicine, in training for speciality in emergency medicine, Specialist in surgery, in training |
|---|
| It is improtant to control all variables. The assistant is important - especially in unanticipated difficult airway managment   |
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|   |
| laytime, working days day and night, working days 24h, working days only daytime, other (specify)   |
|   |
|   |
|   |
| Definition  |
| Description of different types  |
| ata project': Annual unit hours of ALS (physician only in this case) per 100,000 inhabitants.   |
|   |
| To get an impression on the system  |
| is the doc car called out at once or later?   |
| service area  |
|   |

| important to register to what degree the physicians maintain procedures with in-hospital training  |
|--|
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| nicle for patient approach   |
|  |
| ata project': Annual unit hours of Non-ALS (physician only in this case)hours per 100,000 inhabitants.   |
| prillator, Invasive BP-measurment tool, 12-lead ECG, 3 or 5 lead ECG, NO-inhalation equipment, Syringe-pumps (1,2,3,more), BIS, Contino  |
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| Comments for discussion  |
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| i mission, Transfer of ICU patient from lower to higher level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment, transfer of ICU patient from higher to lower level of treatment from higher level of treatment from |
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| ited infor of not required   |
| nted infor or not required   |
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| logy, 8 = other  |
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| an to the place of event     |
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| Comments for discussion      |
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| Decision of scale and levels |
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| See Utsein Airway            |
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| at hospital  |
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| See trauma utstein   |
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| tient contact)   |
| Description of sedated/intubated pts   |
| Description of sedated/intubated pts   |
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| east left, backseast middle  |
| r (define)   |
|  |
| Other sentral stimulating drug, Cannabis, Benzodiazepines, Ither (define).   |
|  |
|  |
| Comments for discussion  |
| Decision on nb of interventions  |
| Decision on level of registration  |
| Decision on nb of interventions  |
|  |
| 1 7 chest drain 8 electric stimulation of the heart (includes defibrillation, pacing etc) 9 cardiac massage 10 tracheostomy 11 other |
| ardiac arrest and CPR  |
| Decision on nb of interventions  |
|  |

| Decision on nb of interventions  Comments for discussion |                                 |
|--|---------------------------------|
|  |                                 |
|  | Decision on nb of intervention  |
| Comments for discussion                                  | Decision on the or med vertical |
| Comments for discussion                                  |                                 |
|  | Comments for discussion         |
|  |                                 |
|  |                                 |
| ain hospital   | ain hospital                    |
| iiii iloopitai   | ani nospitai                    |

| atment and transport (TBD)   |
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| in the initial (main) hospital   |
| mpared with tentative diagnosis) 1277.   |
|  |
| <u>seiving hospitals response on arrival (1 = inadequate; 2 = adequate; 3 = hyper-response; 4 = not evaluated)</u> |
| Requires that each unit has defined the minimal standard of care in a given diagnosis                              |
|  |
| I.E: Intended intubation not possible.   |
| The Eq-5d is simple to obtain  |
| call from dispatch center (urgency)  |
| ren the availability (TBD)   |

