2014 Utstein OHCA Variables

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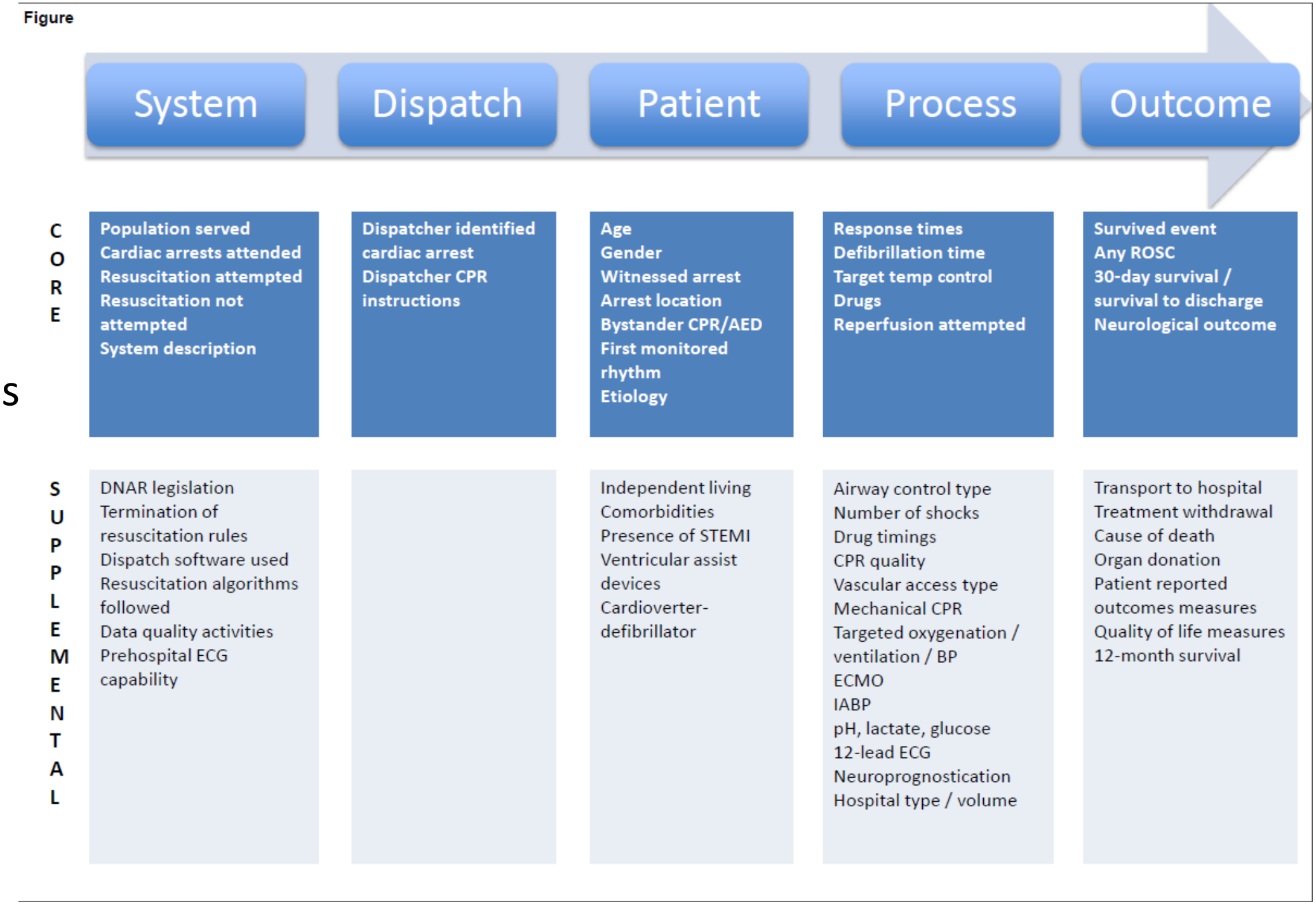
Figure



Utstein 2014 OHCA Variables	PAROS Variables
System	
Population served*	x
Cardiac arrests attended*	x
Resuscitation attempted	✓
Resuscitation not attempted	✓
System description*	x
Dispatch	
Dispatcher identified cardiac arrest*	✓
Dispatcher provided CPR instructions*	✓
Patient	
Age	✓
Gender	✓
Witnessed arrest	✓
Arrest location	✓
Bystander response	
Bystander CPR	✓
Bystander AED	✓
First monitored rhythm	✓
Etiology	✓
Process	
Response times	✓
Defibrillation time (time call received to time first shock given)	✓
Targeted temperature control (TTC)*	✓
Drugs given	✓
Reperfusion attempted*	x
Outcome	
Survived Event	✓
Any ROSC	✓
30 day survival or survival to discharge	✓
Neurological outcome	✓

✓ = variable available but with varying data options

**denotes new variables*

Should PAROS adopt 2014 Utstein variables?

- Depends on whether each participating site is willing to change their data variables
- Dr Bryan McNally recommended not to change the variables for now as CARES will not be changing any of their variables
  - PAROS and CARES variables are currently standardized and aligned for collaboration in data analysis
- Changing any data variable will require a change in the ePAROS system platform and data reconciliation template -> time consuming

System Core Variables

Utstein 2014 OHCA Variables	PAROS Variables
Population served*	Not available in CRF
Cardiac arrests attended*	Not available in CRF
Resuscitation attempted	Resuscitation attempted by EMS/Private ambulance
Resuscitation not attempted	
System description*	Not available in CRF

Supplemental variables:

- DNAR legislation*
- Termination of resuscitation rules*
- Dispatch software used*
- Resuscitation algorithms followed*
- Data quality activities*
- Prehospital ECG capability*

**denotes new variables*

Dispatch Core Variables

Utstein 2014 OHCA Variables	PAROS Variables (in DA-CPR module)
Dispatcher identified cardiac arrest*	Did dispatch recognize need for CPR
Dispatcher provided CPR instructions*	CPR instructions started

**denotes new variables*

Patient Core Variables

Utstein 2014 OHCA Variables	PAROS Variables
Age	**Age**
Gender	**Gender**
Witnessed arrest - Bystander Witnessed - EMS witnessed - Unwitnessed - Unknown	**Arrest witnessed by** - Not witnessed - EMS/private ambulance - Bystander – healthcare provider - Bystander – lay person - Bystander - family
Arrest location - Home/residence - Industrial/workplace - Sports/recreation event - Street/highway - Public building - Assisted living/nursing home - Educational institution - Other - Unspecified/Unknown/Not recorded	**Location type** - Home residence - Industrial place - Place of recreation - Street/highway - Public/Commercial building - Nursing Home - Healthcare facility - Transport center - In EMS/private ambulance - Others, specify
Bystander CPR - Compression only - Compression and ventilations - No bystander CPR - Unknown/ Not recorded	**Bystander CPR** - Yes - No

Utstein 2014 OHCA Variables	PAROS Variables
Bystander AED - AED used, shock delivered - AED used, no shock delivered - AED not used - Unknown - Not recorded	**Bystander AED** - Yes - No
First monitored rhythm	**First arrest rhythm**
Etiology - Medical (Presumed cardiac or unknown, other medical etiologies) - Traumatic cause - Drug overdose - Drowning - Electrocution - Asphyxial (external cause) - Not recorded	**Cause of arrest** - Presumed cardiac - Respiratory - Electrocution - Drowning - Trauma - Other

Supplemental variables:

- Independent living*
- Comorbidities*
- Presence of STEMI*
- Ventricular assist devices
- Cardioverter-defibrillator*

**denotes new variables*

Process Core Variables

Utstein 2014 OHCA Variables	PAROS Variables
Response times	**Time call received to time ambulance arrived at scene**
Defibrillation time	**Time call received to time of first shock**
Targeted temperature control (TTC)* - Intra-arrest - Post-ROSC prehospital - Post-ROSC in-hospital - TTC indicated but not done - TTC not indicated - Unknown/Not recorded	**In PAROS CRF:** Hypothermia therapy initiated (hospital level) - Yes - No **In TTM module:** - Targeted temperature management induced? (Y/N) - Where was targeted temperature management initiated in hospital? (ED/ICU/Cath Lab) - Was Targeted Temperature Management (TTM) initiated in field? (Y/N)
Drugs given - Adrenaline - Amiodarone - Vasopressin - None given - Unknown/Not recorded	**Drug administered at ED** - Epinephrine - Lidocaine - Atropine - Amiodarone - Dextrose - Bicarbonate - Other
Reperfusion attempted* - Angiography only - PCI - Thrombolysis - None - Unknown/Not recorded Timing: - Intra-arrest - Within 24 h of ROSC - >24 h but before discharge - Unknown/Not recorded	**Emergency PCI performed** - Yes - No

Supplemental variables:

- Prehospital airway control type (in PAROS CRF)
- Number of shocks
- Drug timings
- CPR quality*
- Vascular access type*
- Mechanical CPR* (in PAROS CRF)
- Targeted oxygenation / ventilation / BP*
- ECMO* (in PAROS CRF)
- IABP*
- pH, lactate, glucose*
- 12-lead ECG*
- Neuroprognostication*
- Hospital type / volume*

**denotes new variables*

Outcome Core Variables

Utstein 2014 OHCA Variables	PAROS Variables
Survived Event (ROSC sustained until arrival at ED and upon transfer of care) - Yes - No - Unknown/Not recorded	**Patient's status at ED arrival** - ROSC - Ongoing resuscitation - Transported without resuscitation
Any ROSC - Yes - No - Unknown/Not recorded	**ROSC at scene/en-route & ROSC at ED** - Yes - No - NA
30 day survival or survival to discharge - Yes - No - Unknown/Not recorded	**Patient status** - Discharge alive - Remains in hospital at 30th day post arrest - Died in hospital
Neurological outcome - CPC score (1-5) - mRS (0-6) - Unknown/Not recorded	**Patient neurological status on discharge or at 30th day post arrest** - CPC score (1-4) - OPC score (1-4) - Unknown

Supplemental variables:

- Transport to hospital* (in PAROS CRF – final status at scene)
- Treatment withdrawal*
- Cause of death*
- Organ donation*
- Patient reported outcomes measures*
- Quality of life measures (in PAROS CRF – EQ5D)
- 12-month survival

**denotes new variables*