

TRIEDIACE SYSTÉMY





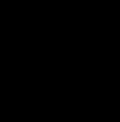
KONFLIKT ZÁUJMOV



155 odtieňov
urgentu



75-85 % úmrtí nastane v priebehu prvých 20 minút...



TRIAGE



START

Homebush triage Standard

Sieve

STM

CareFlight

CESIRA Protokol

Burn Triage

PTT for children

CBRN Triage

MASS

META Triage

MPTT

swiFT Triage

TEWS Triage

Medical Triage

SALT

MPTT-24

mSTART

BCD Triage Sieve

RAMP

JumpSTART

ASAV

MIMMS Triage Sieve

NARU Triage Sieve

Triage Systems in Mass Casualty Incidents and Disasters: A Review Study with A Worldwide Approach

[Jafar Bazyar](#), [Mehrdad Farrokhi](#), and [Hamidreza Khankeh](#)*

Accuracy of Triage Systems in Disasters and Mass Casualty Incidents; a Systematic Review

[Jafar Bazyar](#)^{1,2,3}, [Mehrdad Farrokhi](#)¹, [Amir Salari](#)⁴, [Hamid Safarpour](#)^{2,5} and [Hamid Reza Khankeh](#)^{1,*}

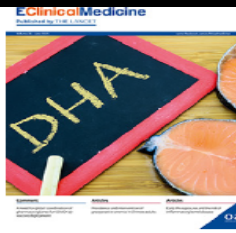


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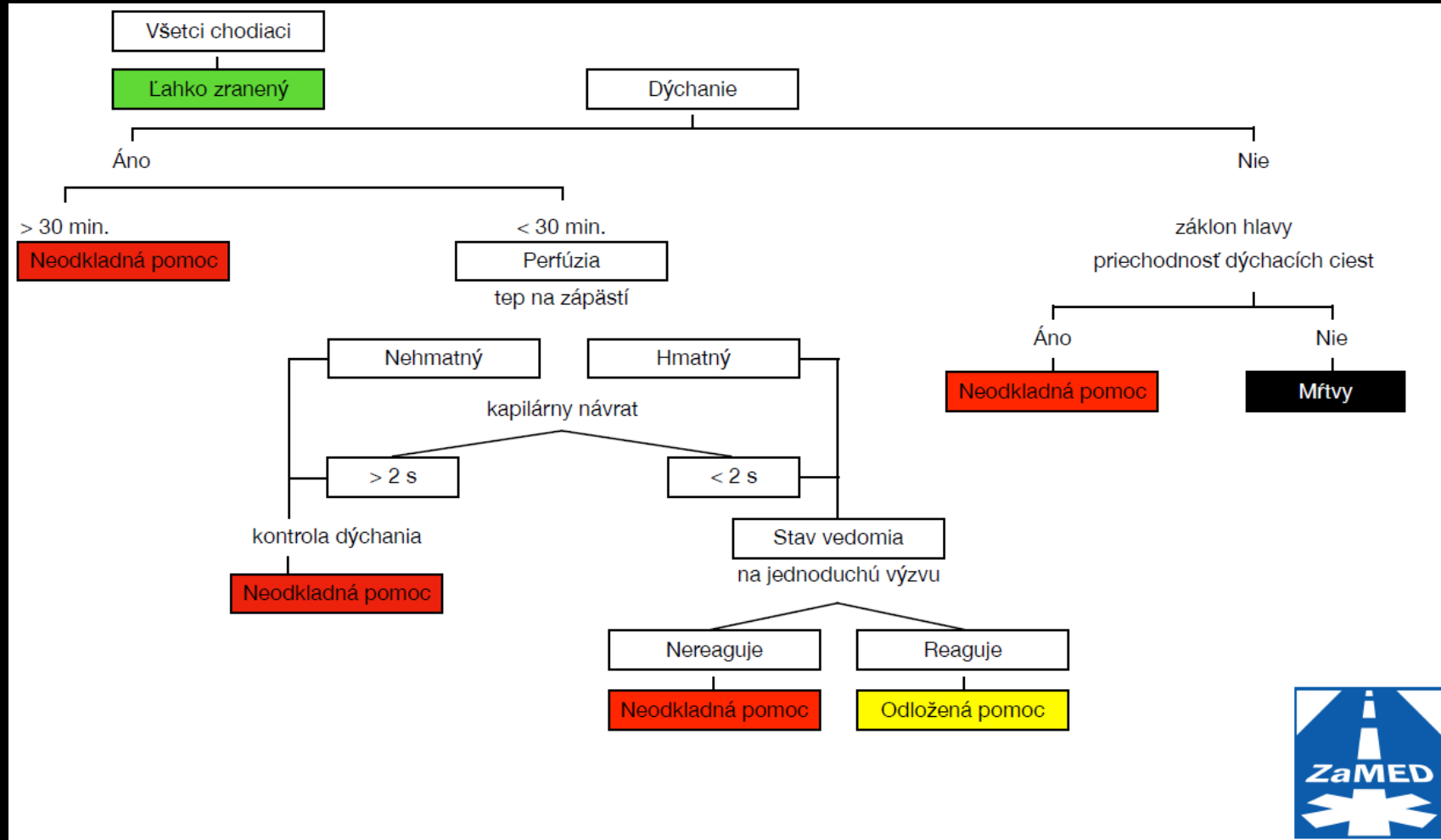


Research paper

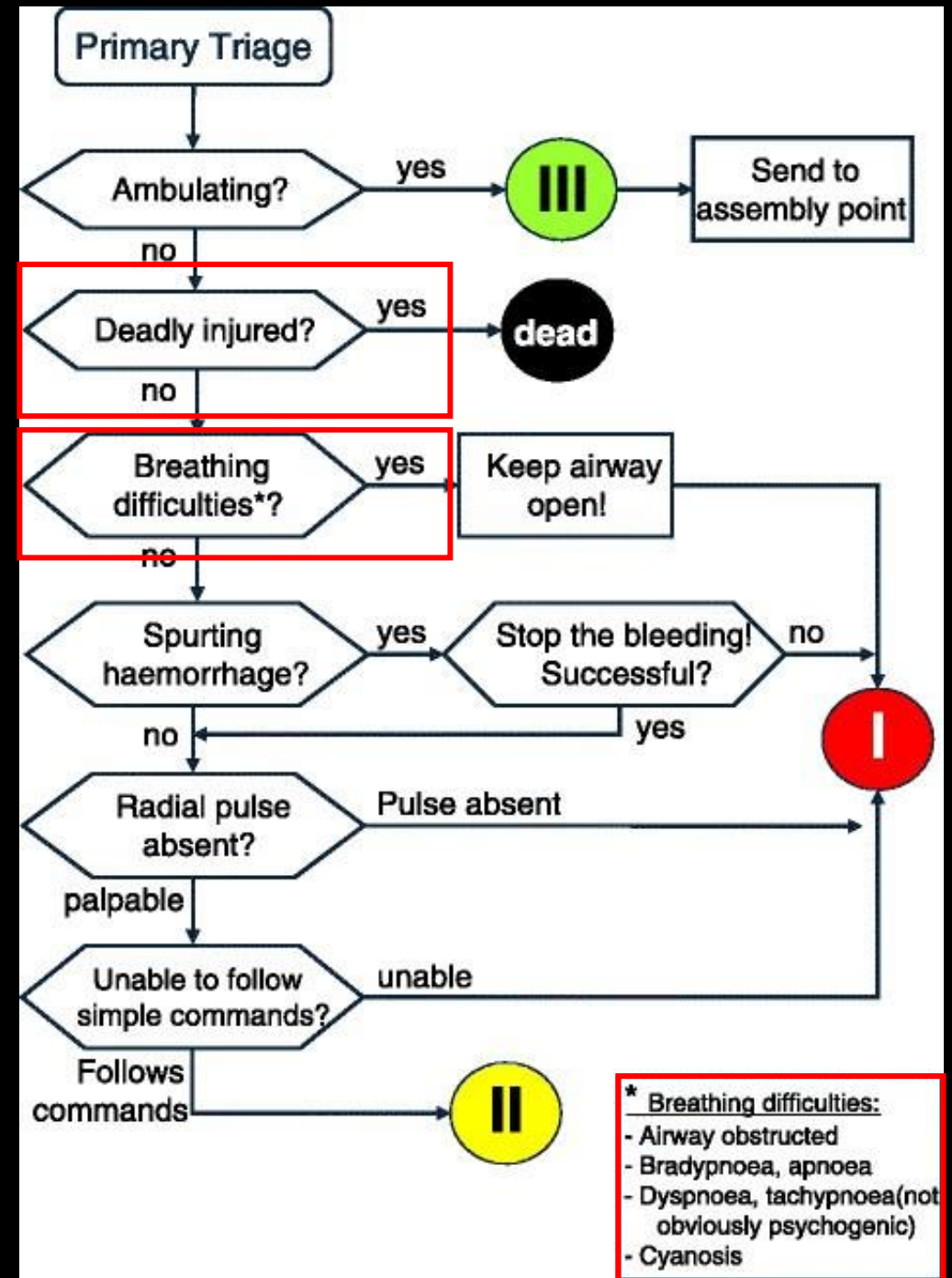
The BCD Triage Sieve outperforms all existing major incident triage tools: Comparative analysis using the UK national trauma registry population

Nabeela S. Malik^{a,b,c,*}, Saisakul Chernbumroong^{a,d}, Yuanwei Xu^d, James Vassallo^e, Justine Lee^{b,g,h}, Douglas M. Bowley^{b,f,g}, Timothy Hodgettsⁱ, Christopher G Moran^{h,j}, Janet M Lord^{a,b}, Antonio Belli^{a,b,g}, Damian Keene^{f,g}, Mark Foster^{a,e,g}, Georgios V Gkoutos^{a,d,k,l}

START- Simple Triage and Rapid Treatment



ASAV-Amberg-Schwandorf-Algorithmus für die Vorsichtung

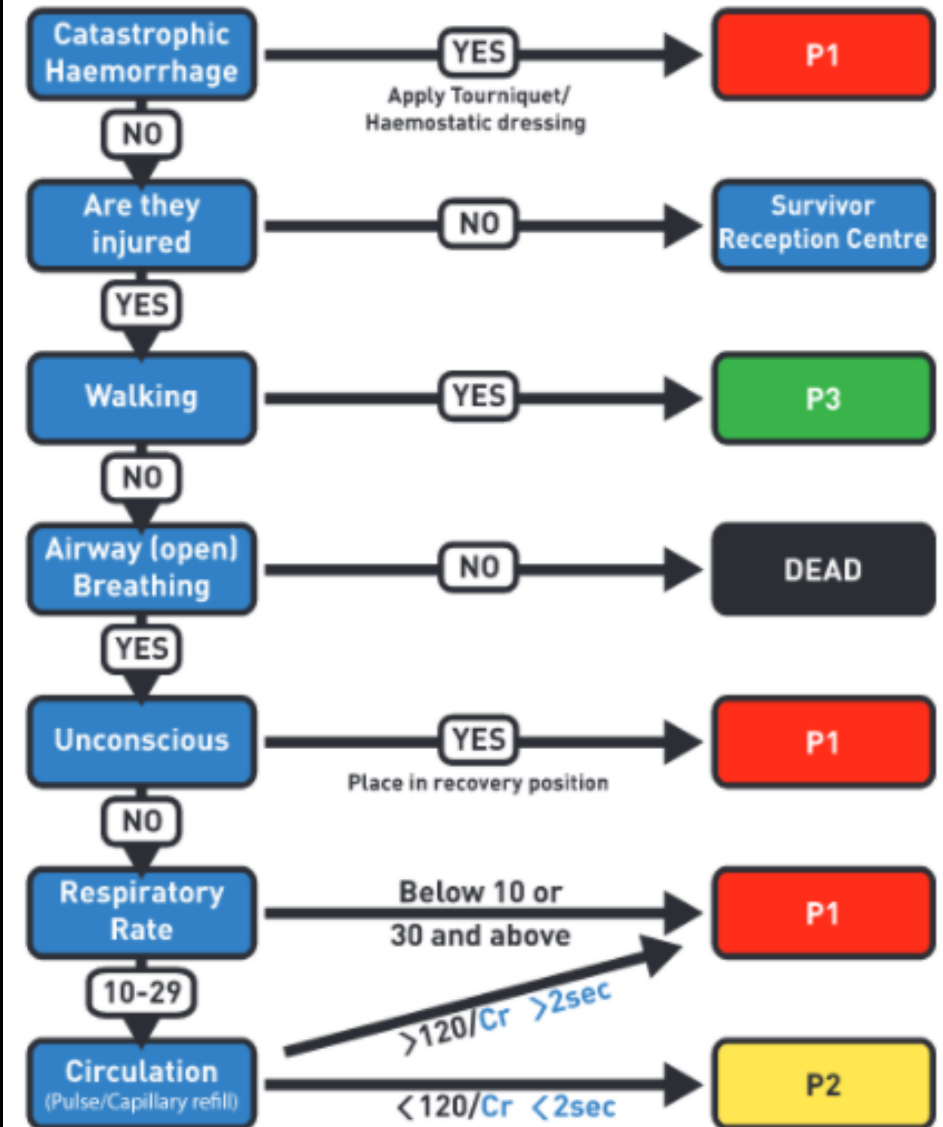




BCD (Battlefield Casualty Drill) Sieve

ADULT TRIAGE SIEVE

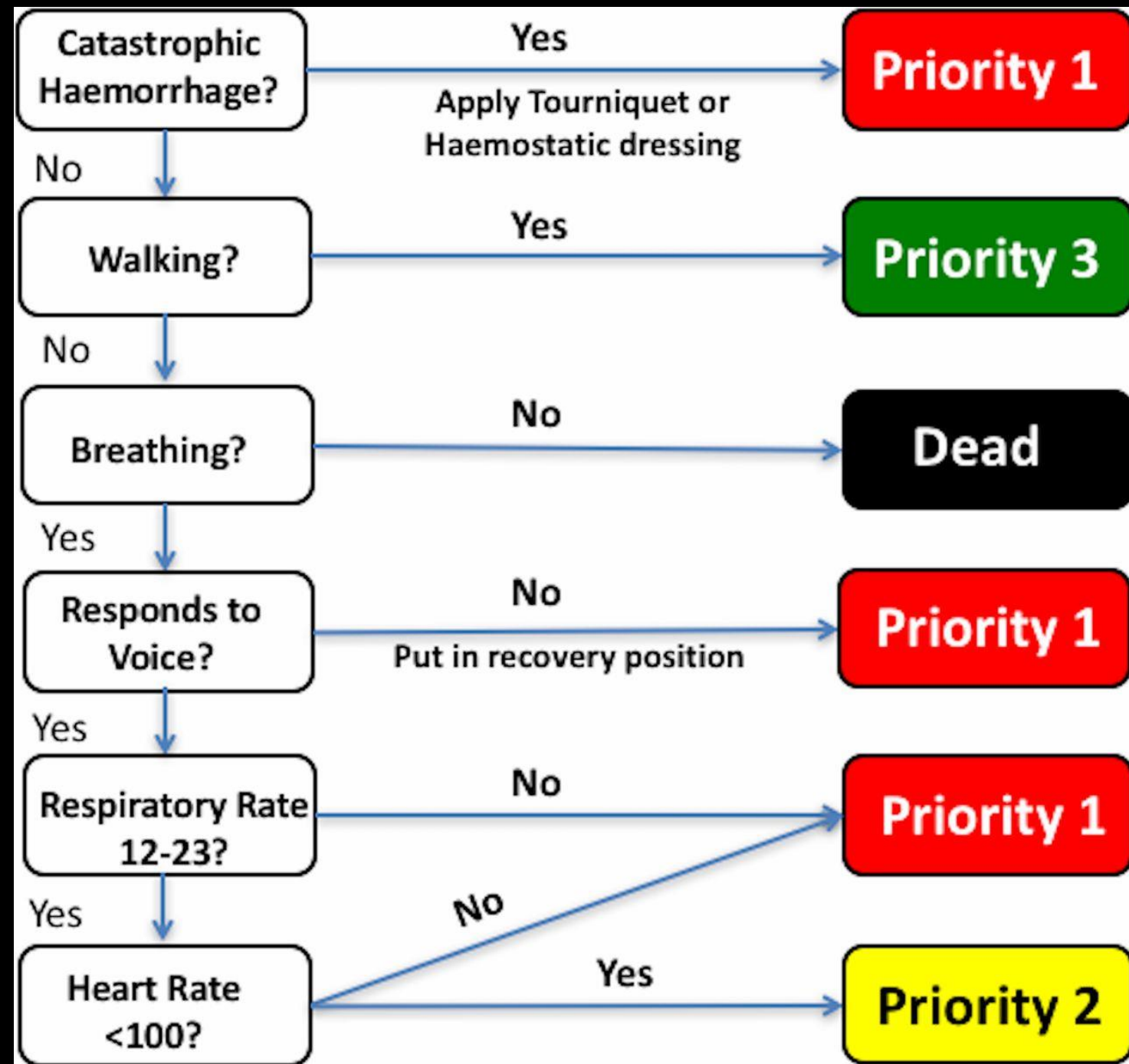
Best Practice, Triage In Pairs



RE-TRIAGE EVERY 15 MINUTES

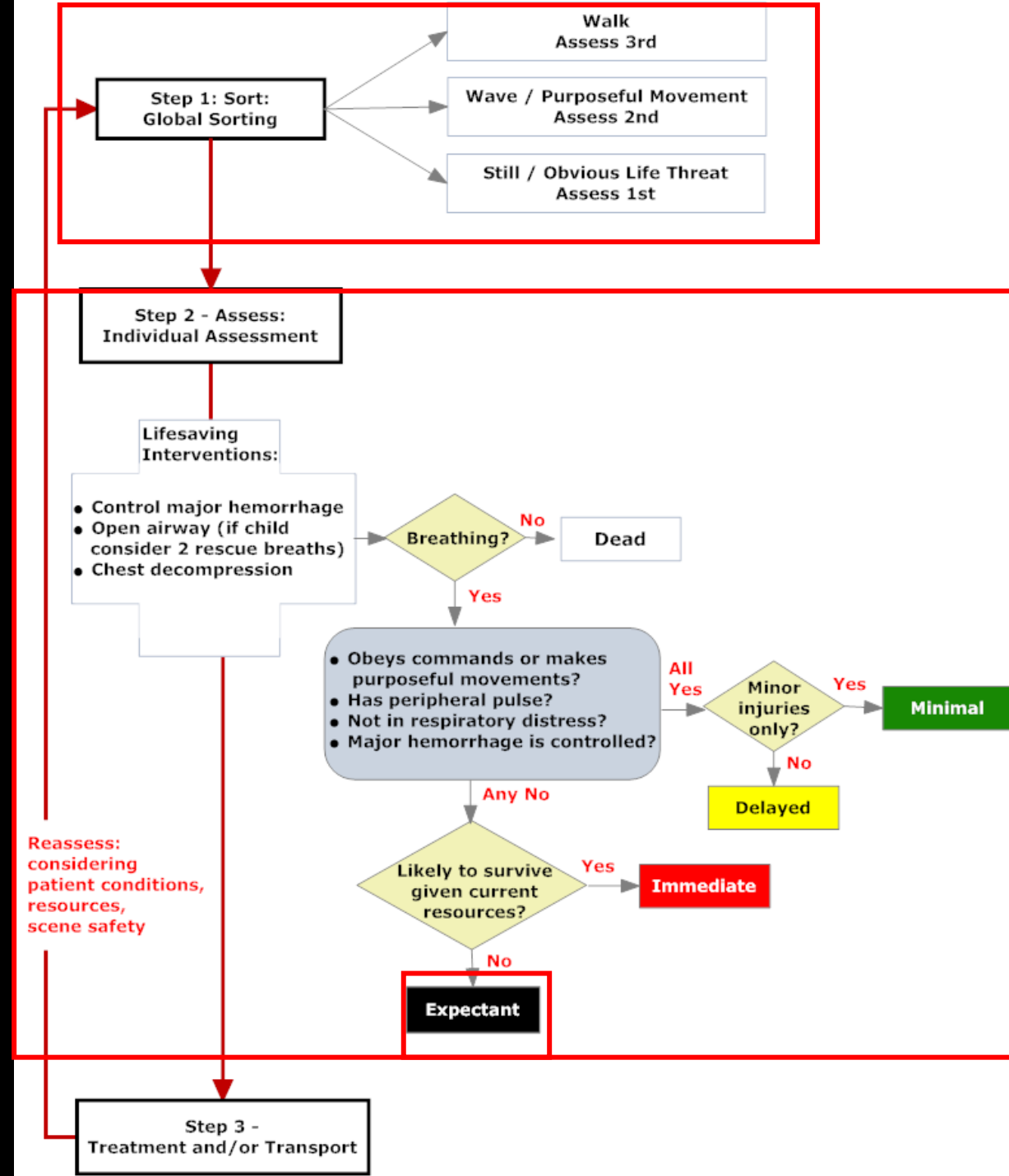


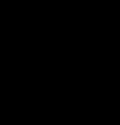
MPTT-24 (Modified Physiological Triage Tool)





SALT (Sort, Assess, Lifesaving intervention, Transport)





Systems	Articles*	Accuracy#	Sensitivity	Specificity	Over-triage	Under-triage
START	6	36 -73	39.2 – 90	78.7 - 90	12 - 53	2 - 33
mSTART	2	84.8	84-88.2	91-93.9	3.8	6.8
SALT	4	66 - 70	65	88.3	5 - 22	10 - 30
Smart	1	93	-	-	1.8	5.1
Care Flight	3	36	39.2-96	96 - 98.8	5.6	57.6
ASAV	1	83.9	87.4	91	4.6	9.7
Sieve	2	-	45	88	-	-
MPTT	1	-	69.6	65.3	-	-
ESI	3	40 - 94.7	42.3 – 100	93.7 - 99	-	-

**Table 5**

Tool Performance in Predicting Intervention-based Priority 1 Status in Adults aged 16–64 years.

Tool	Sensitivity	Specificity	PPV	NPV	Undertriage (1-sensitivity)	Overtriage (1-PPV)	AUC
BCD Triage Sieve	70.4 [69.7, 71.1]	65.6 [65.3, 66.0]	29.1 [28.6, 29.6]	91.7 [91.5, 91.9]	29.6 [28.9, 30.3]	70.9 [70.4, 71.4]	0.680 [0.676, 0.684]
CareFlight	43.3 [42.6, 44.1]	92.8 [92.7, 93.0]	54.8 [53.9, 55.7]	89.1 [88.9, 89.3]	56.7 [55.9, 57.4]	45.2 [44.3, 46.1]	0.681 [0.677, 0.685]
JumpSTART	46.8 [46.1, 47.6]	89.3 [89.0, 89.5]	46.6 [45.8, 47.4]	89.3 [89.1, 89.6]	53.2 [52.4, 53.9]	53.4 [52.6, 54.2]	0.681 [0.676, 0.685]
MIMMS Triage Sieve	41.8 [41.0, 42.5]	93.4 [93.3, 93.6]	56.0 [55.1, 56.9]	88.9 [88.7, 89.1]	58.2 [57.5, 59.0]	44.0 [43.1, 44.9]	0.676 [0.672, 0.680]
MPTT	49.9 [49.1, 50.7]	59.1 [58.7, 59.4]	19.6 [19.2, 20.0]	85.5 [85.2, 85.8]	50.1 [49.3, 50.9]	80.4 [80.0, 80.8]	0.545 [0.541, 0.549]
MPTT-24	47.9 [47.1, 48.7]	62.9 [62.6, 63.2]	20.6 [20.1, 21.0]	85.8 [85.5, 86.1]	52.1 [51.3, 52.9]	79.4 [79.0, 79.9]	0.554 [0.550, 0.558]
MSTART	57.2 [56.5, 58.0]	89.0 [88.8, 89.3]	51.1 [50.4, 51.9]	91.2 [91.0, 91.4]	42.8 [42.0, 43.5]	48.9 [48.1, 49.6]	0.731 [0.727, 0.735]
NARU Triage Sieve	44.9 [44.1, 45.7]	88.4 [88.2, 88.6]	43.6 [42.9, 44.4]	88.9 [88.7, 89.1]	55.1 [54.3, 55.9]	56.4 [55.6, 57.1]	0.666 [0.662, 0.670]
RAMP	39.4 [38.6, 40.1]	93.3 [93.1, 93.5]	54.1 [53.2, 55.0]	88.5 [88.3, 88.7]	60.6 [59.9, 61.4]	45.9 [45.0, 46.8]	0.663 [0.660, 0.667]
START	53.7 [52.9, 54.5]	90.9 [90.7, 91.1]	54.2 [53.4, 55.0]	90.7 [90.5, 90.9]	46.3 [45.5, 47.1]	45.8 [45.0, 46.6]	0.723 [0.719, 0.727]

Ledger: Results are accompanied by 95% confidence intervals. PPV=positive predictive value, NPV=negative predictive value. AUC=Area Under the Receiver Operating Curve.

Table 7

Tool performance in predicting mortality in adults aged 16–64 years.

Tool	Sensitivity	Specificity	PPV	NPV	Undertriage (1-sensitivity)	Overtriage (1-PPV)	AUC
BCD Triage Sieve	85.2 [83.8, 86.6]	60.9 [60.5, 61.2]	5.6 [5.4, 5.8]	99.3 [99.3, 99.4]	14.8 [13.4, 16.2]	94.4 [94.2, 94.6]	0.730 [0.723, 0.738]
CareFlight	69.6 [67.8, 71.4]	88.3 [88.1, 88.6]	14.0 [13.4, 14.6]	99.1 [99.0, 99.1]	30.4 [28.6, 32.2]	86.0 [85.4, 86.6]	0.790 [0.781, 0.799]
JumpSTART	70.0 [68.2, 71.8]	84.7 [84.5, 84.9]	11.1 [10.6, 11.6]	99.0 [99.0, 99.1]	30.0 [28.2, 31.8]	88.9 [88.4, 89.4]	0.774 [0.765, 0.783]
MIMMS Triage Sieve	63.3 [61.4, 65.2]	88.9 [88.7, 89.1]	13.5 [12.9, 14.2]	98.9 [98.8, 99.0]	36.7 [34.8, 38.6]	86.5 [85.8, 87.1]	0.761 [0.752, 0.771]
MPTT	34.2 [32.3, 36.1]	57.4 [57.0, 57.7]	2.1 [2.0, 2.3]	97.0 [96.8, 97.1]	65.8 [63.9, 67.7]	97.9 [97.7, 98.0]	0.458 [0.448, 0.467]
MPTT-24	33.4 [31.6, 35.3]	61.0 [60.6, 61.3]	2.3 [2.1, 2.4]	97.1 [97.0, 97.2]	66.6 [64.7, 68.4]	97.7 [97.6, 97.9]	0.472 [0.463, 0.481]
MSTART	77.3 [75.6, 78.9]	82.9 [82.7, 83.2]	11.0 [10.5, 11.5]	99.3 [99.2, 99.3]	22.7 [21.1, 24.4]	89.0 [88.5, 89.5]	0.801 [0.793, 0.809]
NARU Triage Sieve	72.7 [70.9, 74.4]	84.3 [84.1, 84.6]	11.2 [10.8, 11.7]	99.1 [99.1, 99.2]	27.3 [25.6, 29.1]	88.8 [88.3, 89.2]	0.785 [0.776, 0.794]
RAMP	50.6 [48.6, 52.6]	88.9 [88.7, 89.1]	11.1 [10.5, 11.7]	98.5 [98.4, 98.6]	49.4 [47.4, 51.4]	88.9 [88.3, 89.5]	0.698 [0.688, 0.707]
START	75.3 [73.6, 77.0]	85.1 [84.8, 85.3]	12.1 [11.6, 12.6]	99.2 [99.1, 99.3]	24.7 [23.0, 26.4]	87.9 [87.4, 88.4]	0.802 [0.794, 0.810]

Ledger: Results are accompanied by 95% confidence intervals. PPV=positive predictive value, NPV=negative predictive value. AUC=Area Under the Receiver Operating Curve.





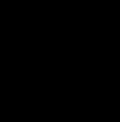
Záchranár, hasič, policajt...

Triedenie kartou...

Život zachraňujúce výkony...

Elektronizácia triedenia...

Geriatrickí pacienti...



ĎAKUJEM