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6 Y 7 DE JUNIO
PALAIS ROUGE
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XII Congreso Argentino de Medicina de Emergencias

VI Congreso Argentino de Residentes de Emergentología

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Ácido Láctico

Distintas Interpretaciones Al Lado De La Cama Del Paciente

Ricardo Bañuelos Huerta

Asociación de Medicina de Urgencias y Desastres de México, A. C.
AMUDEM

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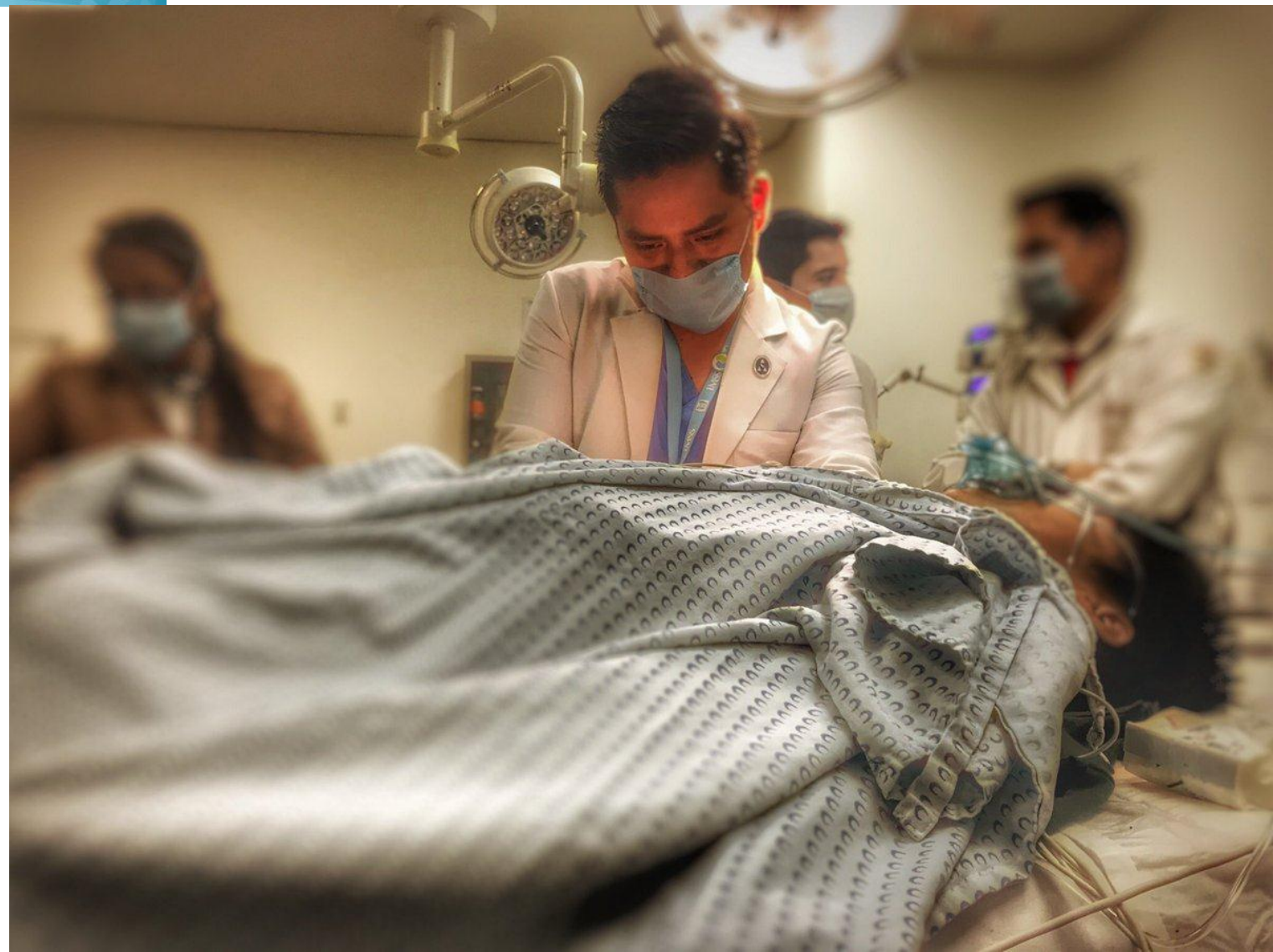
ITEM PLANTEADO	CONFLICTO DE INTERESES PARA DECLARAR SI/NO	
SCIENTIFIC ADVISORY BOARD	SI	NO
INVESTIGACIÓN PARA LA INDUSTRIA	SI	NO
EMPLEADO/A	SI	NO
ACCIONISTA	SI	NO
CONSULTOR/A	SI	NO
DISERTANTE	SI	NO
HONORARIOS	SI	NO

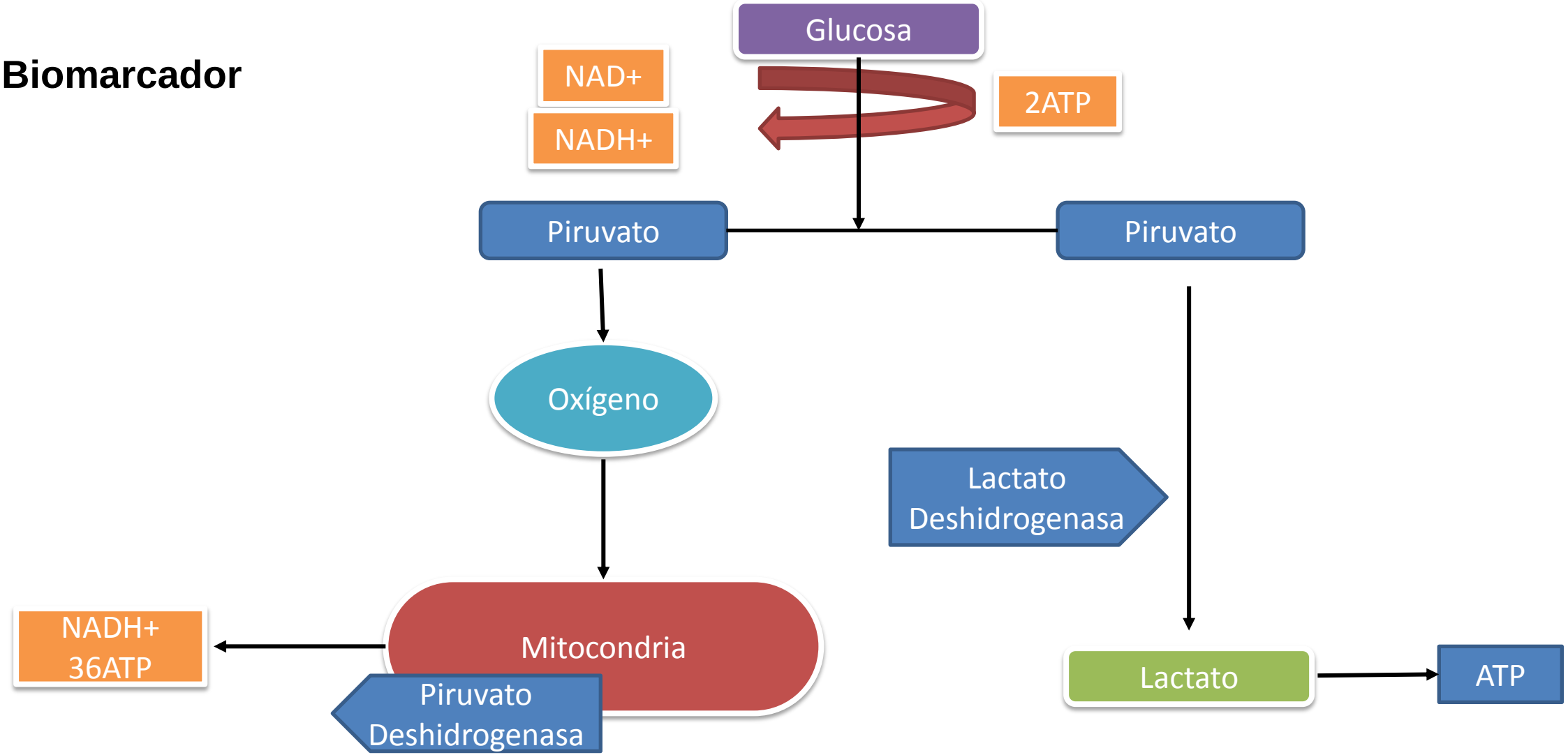
Oportuno

Interpretaciones

- **Pronóstico**
- **Biomarcador**
- **Guía terapéutica**



Biomarcador



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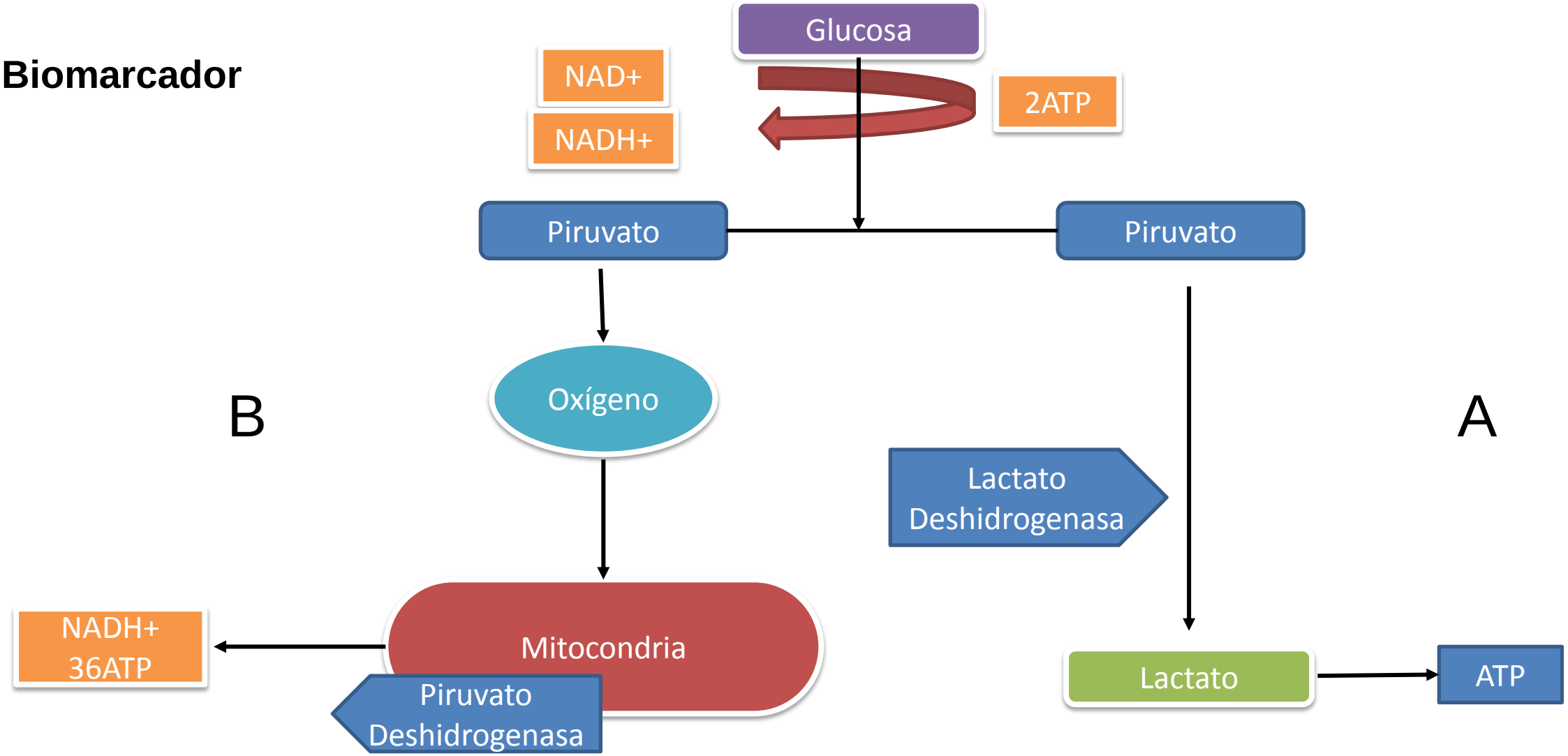

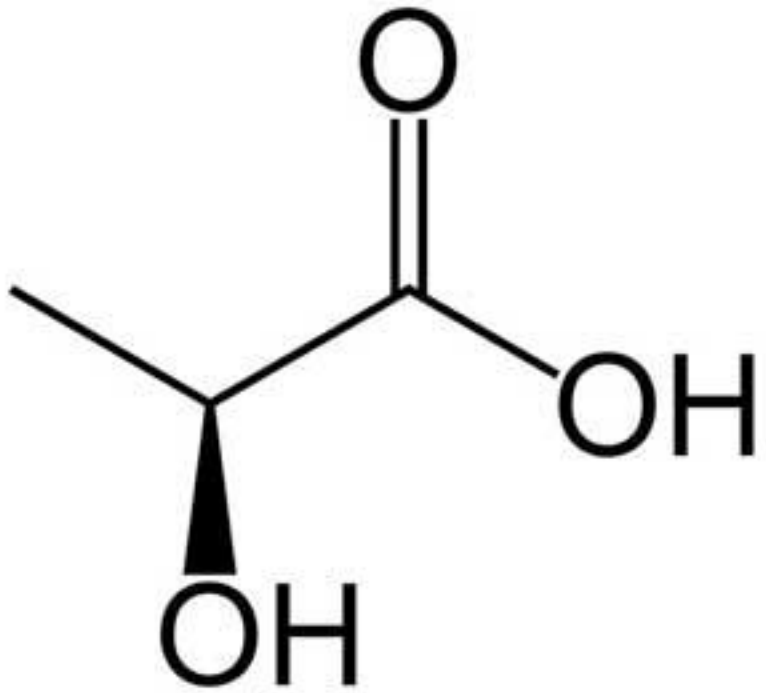

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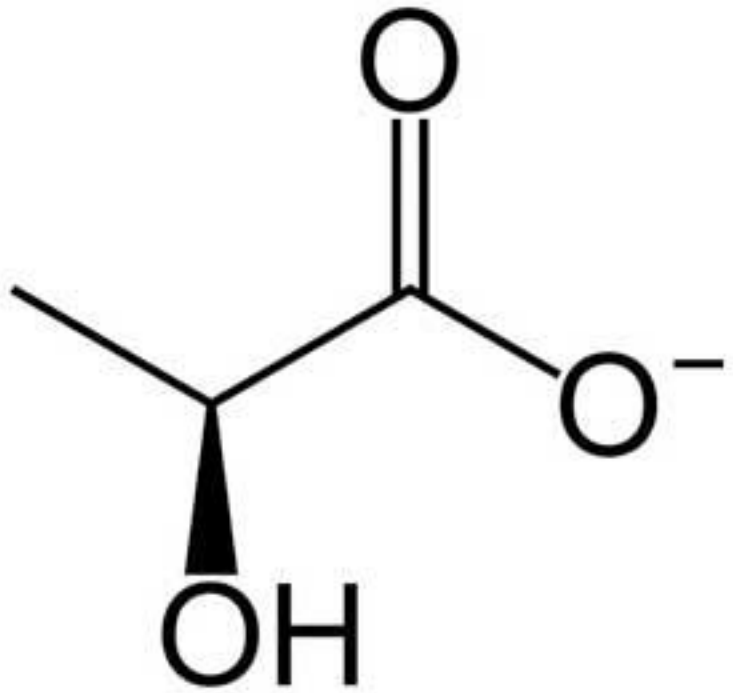

Lactato

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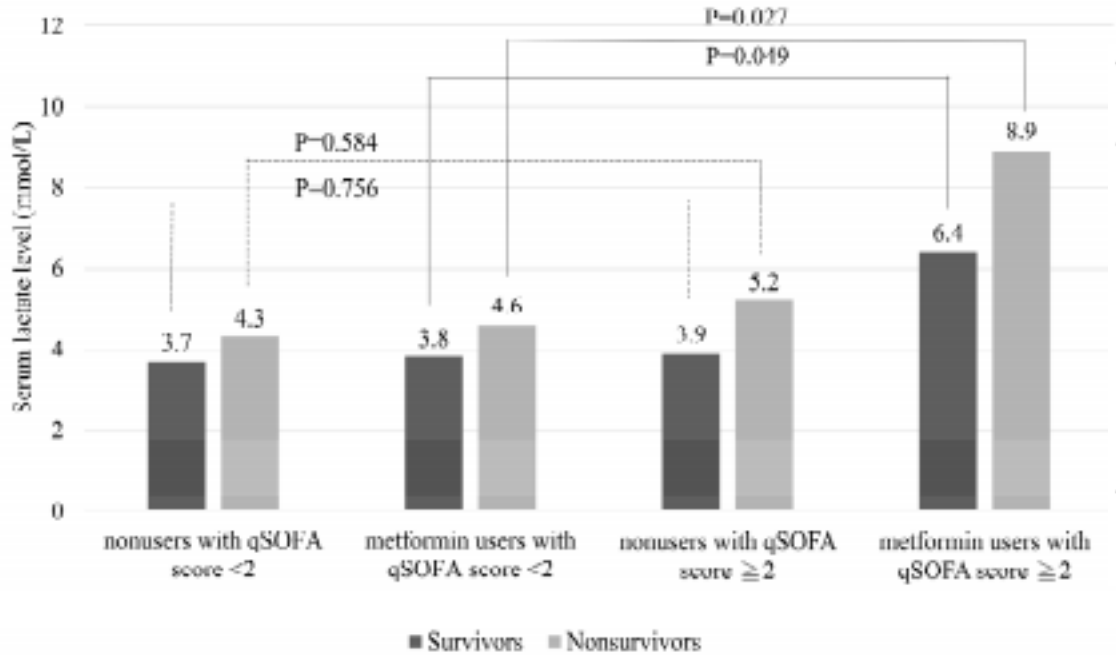
Article

Metformin Affects Serum Lactate Levels in Predicting Mortality of Patients with Sepsis and Bacteremia

Fu-Cheng Chen [1], Chia-Te Kung [1], Hsien-Hung Cheng [1], Chi-Yung Cheng [1], Tsung-Cheng Tsai [1], Sheng-Yuan Hsiao [1], Chien-Hung Wu [1] and Chih-Min Su [1,2,*]



Outcome	Group	AUC	95% CI	*p*	Cut–Off Point	Sensitivity	Specificity	Youden Index
28-day mortality	All patients	0.63	0.57–0.69	<0.001 [a]	2.0	0.81	0.31	0.12
					3.6 [b]	0.58	0.64	0.22
					4.0	0.51	0.69	0.21
	Nonusers	0.63	0.56–0.70	<0.001 [a]	2.0	0.79	0.34	0.14
					3.6 [b]	0.54	0.69	0.22
					4.0	0.48	0.73	0.21
	Metformin users	0.66	0.55–0.77	0.003 [a]	2.0	0.83	0.26	0.09
					4.0	0.60	0.63	0.23
					5.9 [b]	0.49	0.85	0.33

ROC: receiver operating characteristic; AUC: area under the curve; CI: confidence interval. [a] $p < 0.05$. [b] Optimal cut-off point.

Determination of plasma lactate in the emergency department for the early detection of tissue hypoperfusion in septic patients

José Juan Gómez-Ramos [a], Alejandro Marín-Medina [b,*], Sergio Emilio Prieto-Miranda [c], Ingrid Patricia Dávalos-Rodríguez [b], Moisés Alejandro Alatorre-Jiménez [b], Eduardo Esteban-Zubero [d]

Values	Lactate ≥4.20 mmol/L	Lower limit	Upper limit
Prevalence of complications	24.44%	16.26%	34.84%
Patients correctly diagnosed	76.67%	66.35%	84.67%
Sensitivity	22.73%	8.69%	45.82%
Specificity	94.12%	84.86%	98.10%
Positive predictive value	55.56%	22.65%	84.66%
Negative predictive value	79.01%	68.26%	86.96%
Positive probability ratio	3.86	1.14	13.14
Negative probability ratio	0.82	0.65	1.04

Abbreviations: mmol/L, millimoles per liter.

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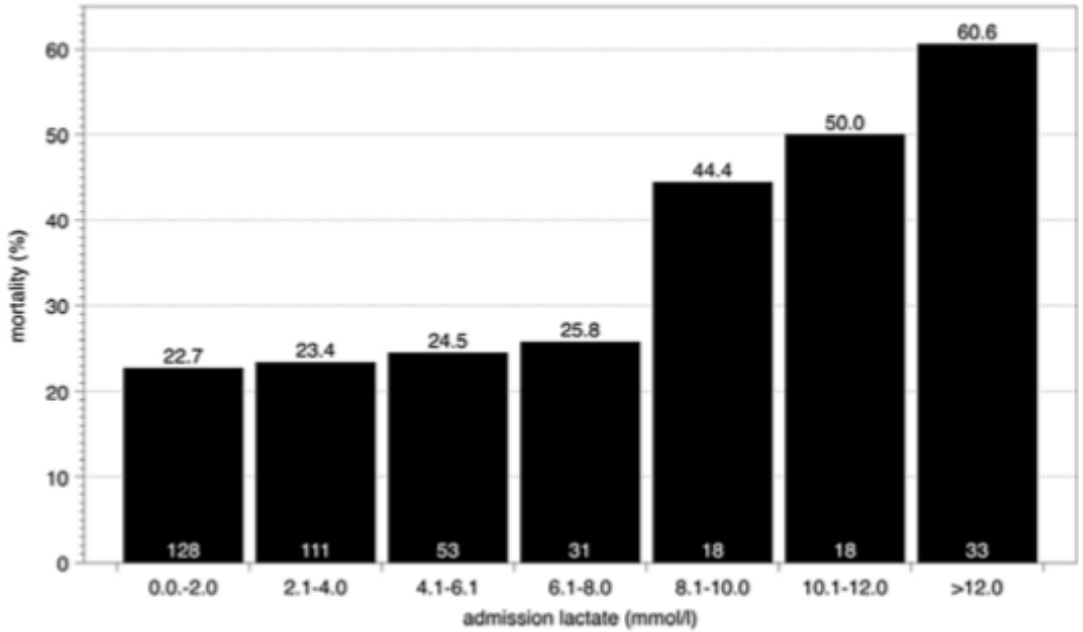
EARLY LACTATE DYNAMICS IN CRITICALLY ILL NON-TRAUMATIC PATIENTS IN A RESUSCITATION ROOM OF A GERMAN EMERGENCY DEPARTMENT (OBSERVE-LACTATE-STUDY)

Andre Kramer,* Norman Urban, MSC,† Stephanie Döll,* Thomas Hartwig, MD,* Maryam Yahiaoui-Doktor, MSC,‡ Ralph Burkhardt, MD (PROF),§ Sirak Petros, MD (PROF),|| André Gries, MD (PROF),* and Michael Bernhard, MD, MHBA*¶#



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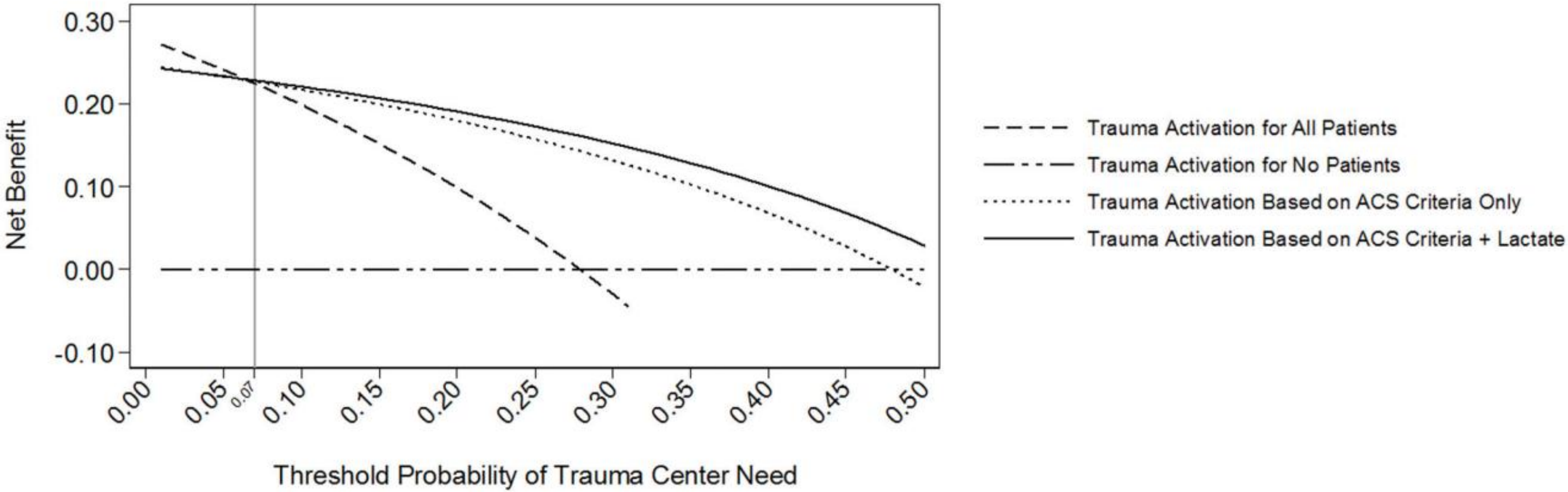
Prehospital Lactate Improves Accuracy of Prehospital Criteria for Designating Trauma Activation Level

Joshua B. Brown, MD, MSc[1], E. Brooke Lerner, PhD[2], Jason L. Sperry, MD, MPH[1], Timothy R. Billiar, MD[1], Andrew B. Peitzman, MD[1], and **Francis X. Guyette, MD, MPH[3]**



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Guía terapéutica

$$Depuración\ Lactato = \left(\frac{Lactato\ Inicial\ - Lactato\ 6hrs}{Lactato\ Inicial}\right) x\ 100$$

Nguyen HB, Rivers EP, Knoblich BP, Jacobsen G, Muzzin A, Ressler JA, et al. Early lactate clearance is associated with improved outcome in severe sepsis and septic shock. Crit Care Med 2004;32:1637–42.

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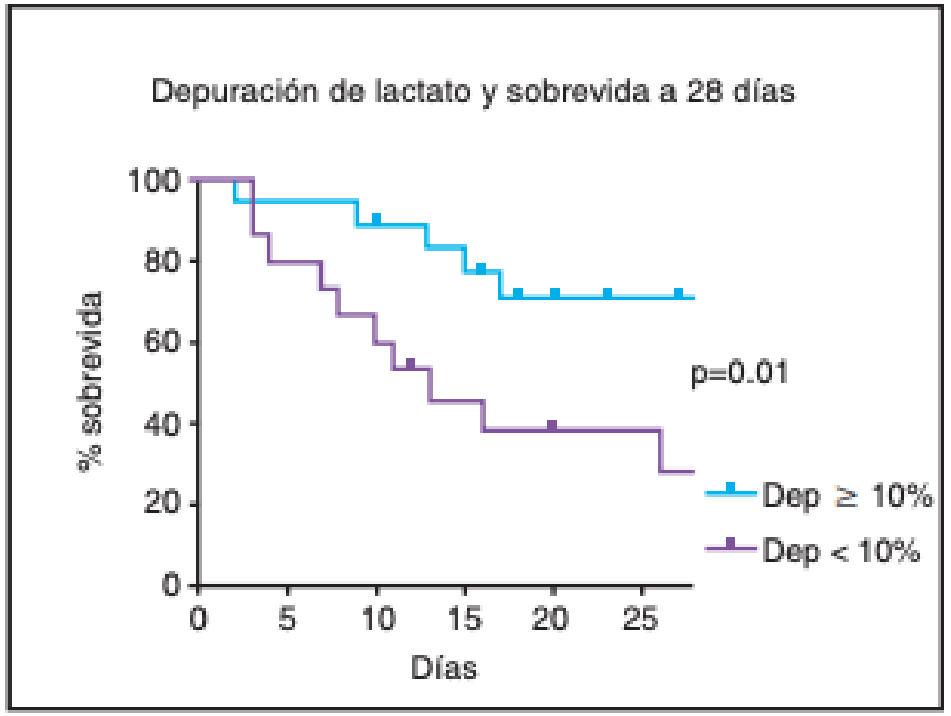
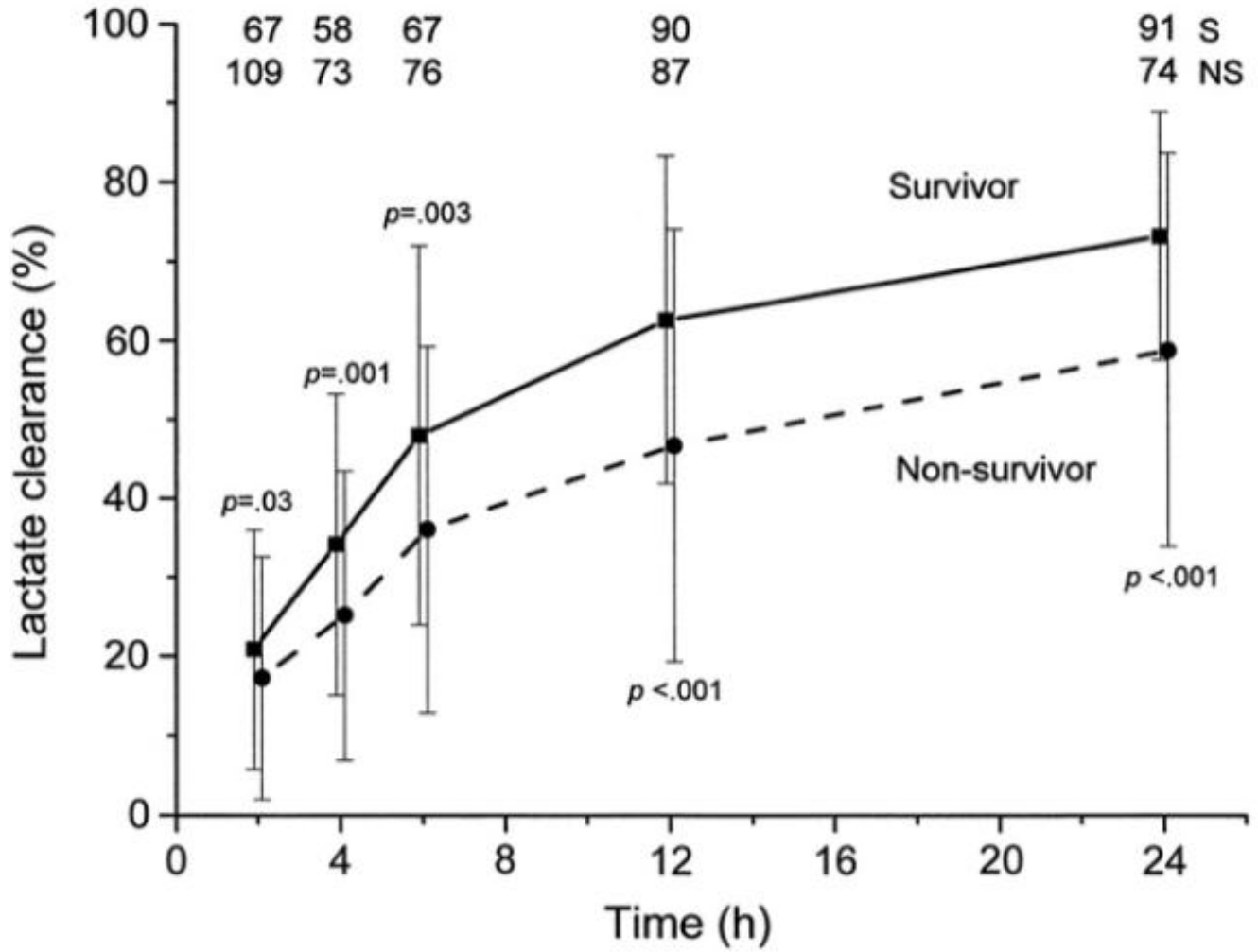
Depuración de lactato como marcador pronóstico en pacientes con sepsis severa y choque séptico en la UCI

Roxana Saldaña Vázquez,* Jorge Hernández Portales,† Arturo Ramírez Rosales,‡ Julio González Aguirre,† María Elena Meza Cano§



Hyperlactatemia in ICU patients: Incidence, causes and associated mortality

Mireia Ferreruela, MD, Joan Maria Raurich, MD, PhD*,
Ignacio Ayestarán, MD, Juan Antonio Llompart-Pou, MD, PhD



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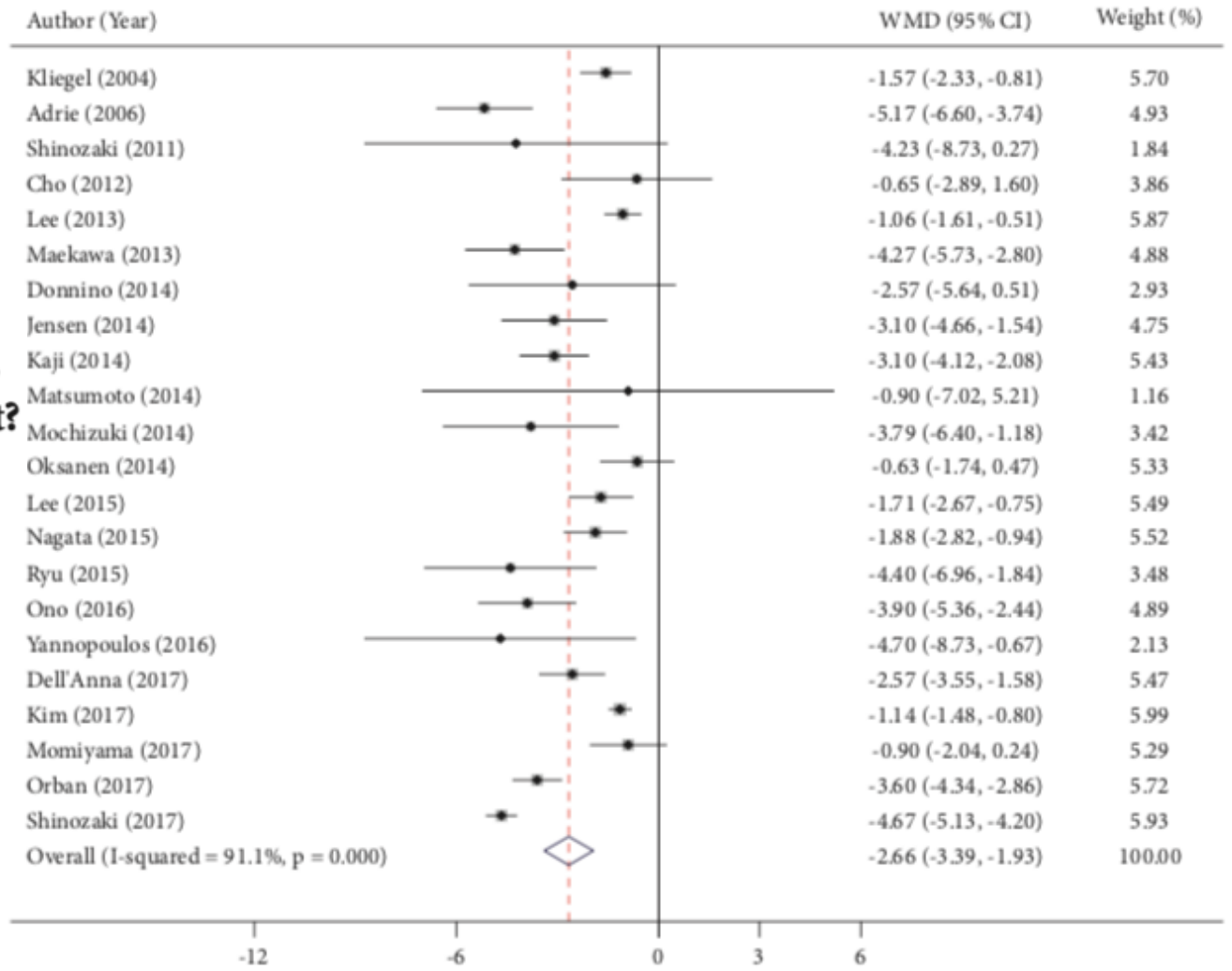
Research Article

Blood Lactate or Lactate Clearance: Which Is Robust to Predict the Neurological Outcomes after Cardiac Arrest? A Systematic Review and Meta-Analysis

Bao-Chun Zhou,[1] Zheng Zhang,[2] Jian-Jun Zhu,[1] Li-Jun Liu,[1] and Chun-Feng Liu[3]



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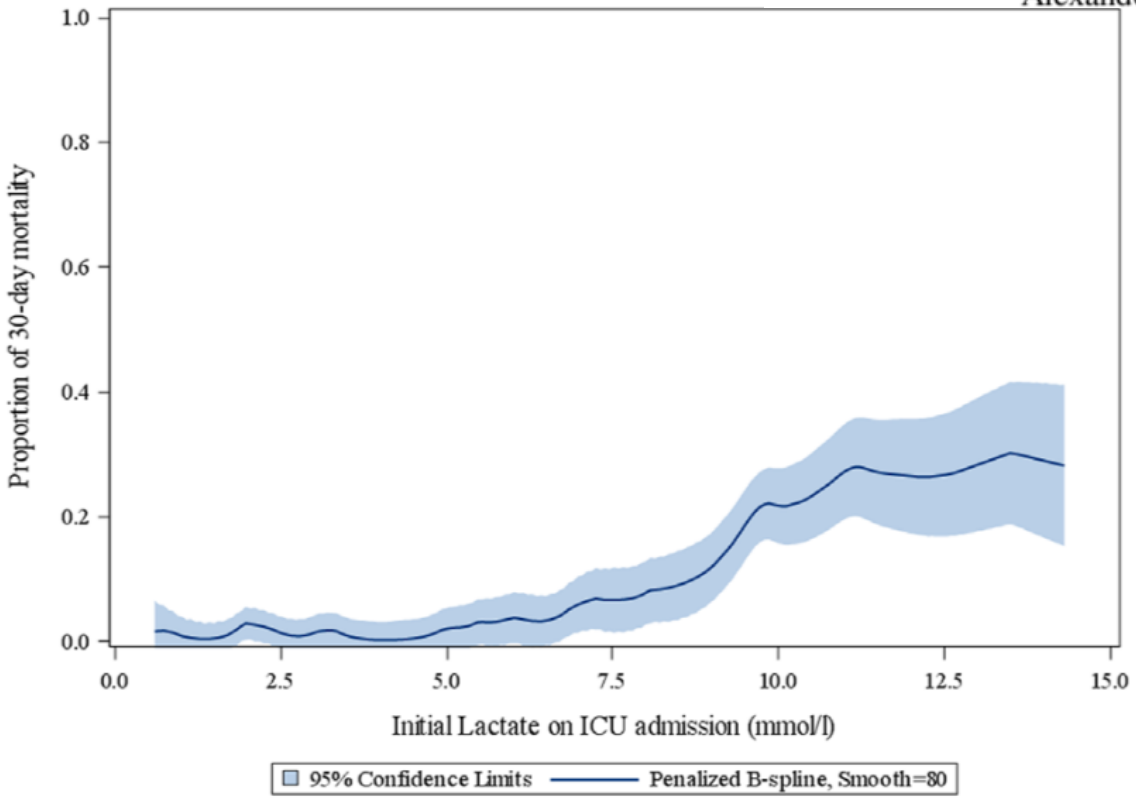
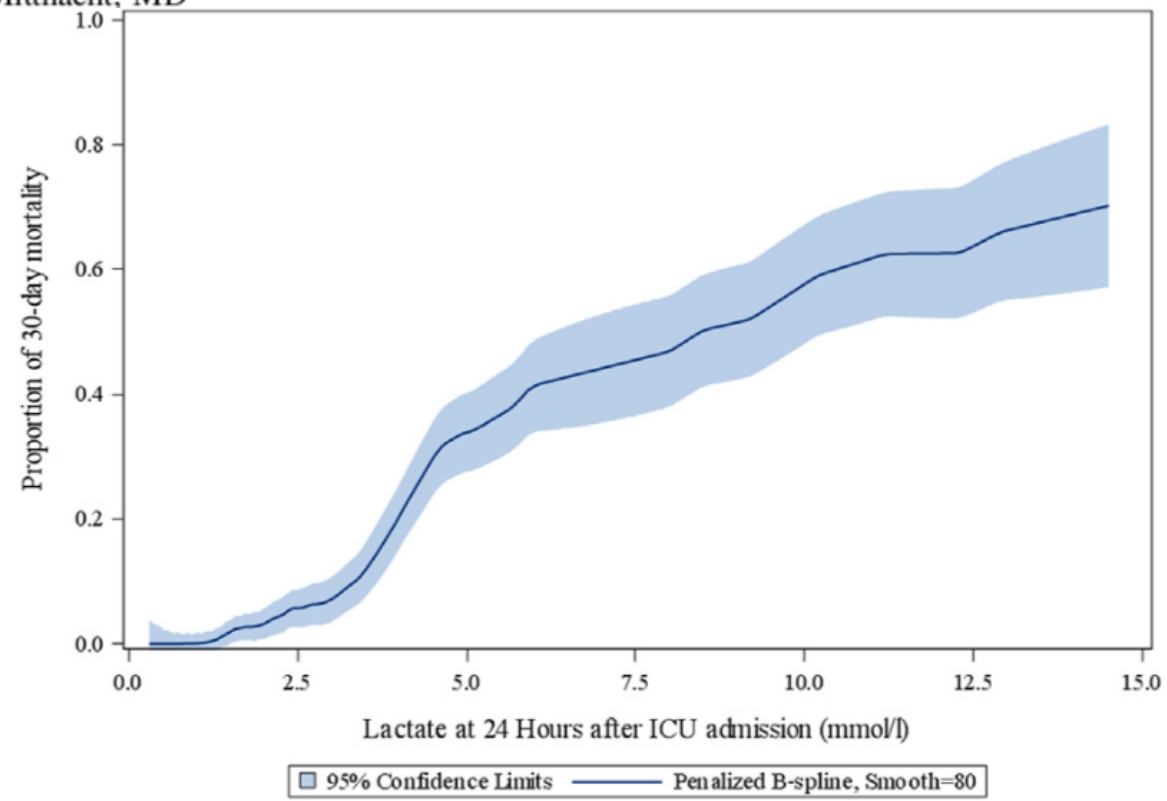
Prognostic Value of Hyperlactatemia and Lactate Clearance After Mitral Valve Surgery

Adam S. Evans, MD[*,†], Matthew A. Levin, MD[†,‡],
Hung-Mo Lin, ScD[§], Ken Lee, BS[¶], Menachem M. Weiner, MD[†],
Anelechi Anyanwu, MD[*], David H. Adams, MD[*],
Alexander J.C. Mittnacht, MD[†,‖]





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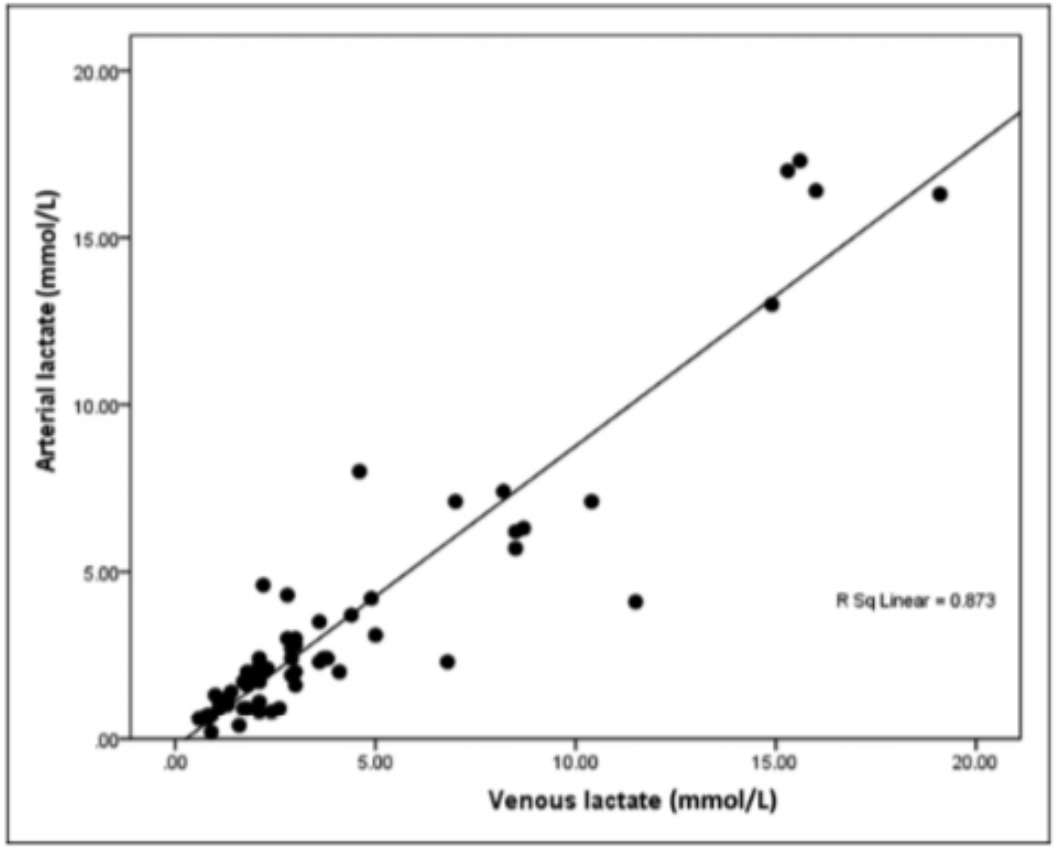
The Correlation Between Arterial Lactate and Venous Lactate in Patients With Sepsis and Septic Shock

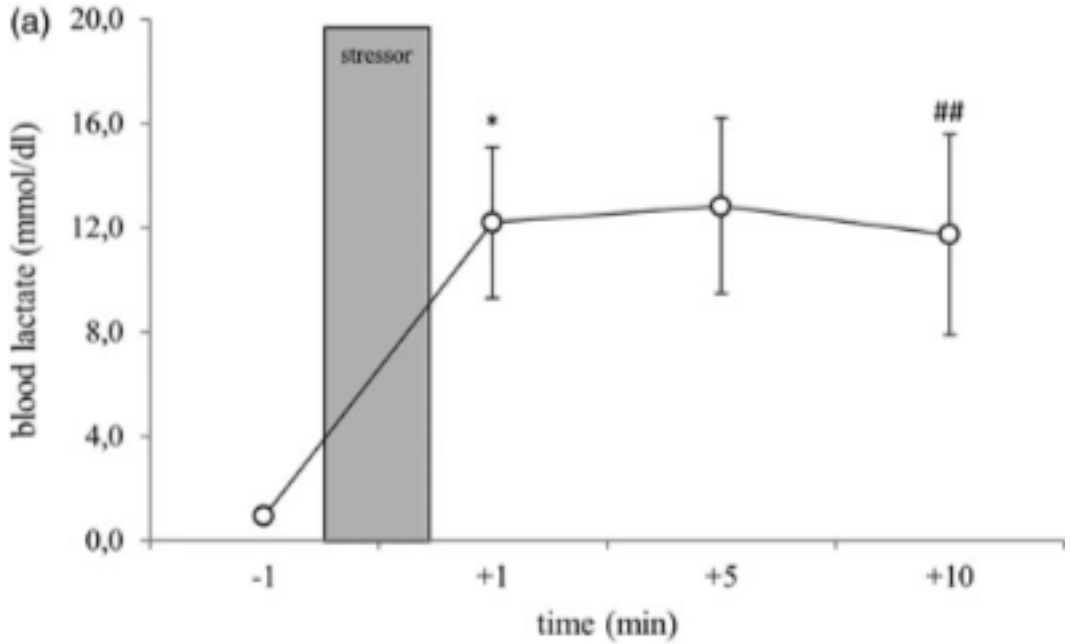
Pongdhep Theerawit, MD[1], Chalermpon Na Petvicharn, MD[1], Viratch Tangsujaritvijit, MD[1], and Yuda Sutherasan, MD[1]



ORIGINAL RESEARCH REPORT

Effects of psychosocial and physical stress on lactate and anxiety levels

Robin Hermann[a,b], Daniel Lay[c], Patrick Wahl[d], Walton T. Roth[e] and Katja Petrowski[b,f]



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Conceptos a Recordar

Biomarcador

Marcador pronóstico

Guía terapéutica

Contexto del paciente

Niveles >4 = complicaciones

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Bibliografía

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