

Supplementary Table 1: Search strategy for aspartate aminotransferase (AST)	
Database	Search query
PubMed	#1 "Rhabdomyolysis"[mh] OR "Myoglobinuria"[mh] OR "Compartment Syndromes"[mh] OR "Anterior Compartment Syndrome"[mh] OR "Chronic Exertional Compartment Syndrome"[mh] OR "Popliteal Artery Entrapment Syndrome"[mh] OR "Crush Injuries"[mh] OR "Crush Syndrome"[mh] OR "Soft Tissue Injuries"[mh] OR Rhabdomyolysis[tiab] OR rhabdomyolyses[tiab] OR Bywater's syndrome[tiab] OR Bywaters syndrome[tiab] OR myoglobinurias[tiab] OR myoglobinuria[tiab] OR myoglobulinuria[tiab] OR myohaemoglobinuria[tiab] OR myohaemoglobinuria[tiab] OR compartment syndrome[tiab] OR compartment syndromes[tiab] OR Anterior Tibial Syndrome[tiab] OR Anterior Tibial Syndromes[tiab] OR Popliteal Artery Entrapment[tiab] OR Popliteal Artery Entrapments[tiab] OR Crush Injury[tiab] OR crush injuries[tiab] OR crush trauma[tiab] OR crushing injury[tiab] OR crushing trauma[tiab] OR Crush Syndrome[tiab] OR Crush Syndromes[tiab] OR skeletal muscle damage[tiab] OR muscle trauma[tiab] OR Soft Tissue Injury[tiab] OR Soft Tissue Injuries[tiab] OR muscle contusion[tiab]
	#2 "Aspartate aminotransferases"[mesh] OR Aspartate aminotransferases[tiab] OR Aspartate Aminotransferase [tiab] OR Aspartate Apoaminotransferase[tiab] OR Aspartate Transaminase[tiab] OR Glutamic-Oxaloacetic Transaminase[tiab] OR Glutamic Oxaloacetic Transaminase[tiab] OR L-Aspartate-2-Oxoglutarate Aminotransferase[tiab] OR L Aspartate 2 Oxoglutarate Aminotransferase[tiab] OR Glutamate-Aspartate Transaminase[tiab] OR Glutamate Aspartate Transaminase[tiab] OR SGOT[tiab] OR Serum Glutamic-Oxaloacetic Transaminase[tiab] OR Serum Glutamic Oxaloacetic Transaminase[tiab] OR aspartic aminotransferase[tiab] OR aspartic transaminase[tiab] OR e.c. 2.6.1.1[tiab] OR glutamate oxalacetate transaminase[tiab] OR glutamate oxalacetic transaminase[tiab] OR glutamate oxalate transaminase[tiab] OR glutamate oxalic transaminase[tiab] OR glutamate oxaloacetate aminotransferase[tiab] OR glutamate oxaloacetate transaminase[tiab] OR glutamic aspartic aminotransferase[tiab] OR glutamate oxaloacetic acid transaminase[tiab] OR glutamic oxalacetic acid transaminase[tiab] OR glutamic oxalacetic transaminase[tiab] OR glutamic oxalacetic transaminase[tiab] OR glutamic oxalacetic transferase[tiab] OR glutamic oxalic transaminase[tiab] OR glutamic oxaloacetic acid transaminase[tiab] OR glutamic oxaloacetic aminotransferase[tiab] OR glutamic oxaloacetic transaminase[tiab] OR glutamine oxaloacetic transaminase[tiab] OR glutaminic oxalacetic transaminase[tiab]
	#3 #1 AND #2
Embase	#1 'Rhabdomyolysis'/exp OR 'crush trauma'/exp OR 'crush syndrome'/exp OR 'Soft Tissue Injury'/exp OR 'compartment syndrome'/exp OR 'muscle contusion'/exp OR 'myoglobinuria'/exp OR 'rhabdomyolysis':ab,ti OR 'rhabdomyolyses':ab,ti OR 'Bywaters syndrome':ab,ti OR 'myoglobinurias':ab,ti OR 'myoglobinuria':ab,ti OR 'myoglobulinuria':ab,ti OR 'myohaemoglobinuria':ab,ti OR 'myohaemoglobinuria':ab,ti OR 'compartment syndrome':ab,ti OR 'compartment syndromes':ab,ti OR 'Anterior Tibial Syndrome':ab,ti OR 'Anterior Tibial Syndromes':ab,ti OR 'Popliteal Artery Entrapment':ab,ti OR 'Popliteal Artery Entrapments':ab,ti OR 'Crush Injury':ab,ti OR 'crush injuries':ab,ti OR 'crush trauma':ab,ti OR 'crushing injury':ab,ti OR 'crushing trauma':ab,ti OR 'Crush Syndrome':ab,ti OR 'Crush Syndromes':ab,ti OR 'skeletal muscle damage':ab,ti OR 'muscle trauma':ab,ti OR 'Soft Tissue Injury':ab,ti OR 'Soft Tissue Injuries':ab,ti OR 'muscle contusion':ab,ti
	#2 'aspartate aminotransferase'/exp OR 'Aspartate aminotransferases':ab,ti OR 'Aspartate Aminotransferase':ab,ti OR 'Aspartate Apoaminotransferase':ab,ti OR 'Aspartate Transaminase':ab,ti OR 'Glutamic-Oxaloacetic Transaminase':ab,ti OR 'Glutamic Oxaloacetic Transaminase':ab,ti OR 'L-Aspartate-2-Oxoglutarate Aminotransferase':ab,ti OR 'L Aspartate 2 Oxoglutarate Aminotransferase':ab,ti OR 'Glutamate-Aspartate Transaminase':ab,ti OR 'Glutamate Aspartate Transaminase':ab,ti OR 'SGOT':ab,ti OR 'Serum Glutamic-Oxaloacetic Transaminase':ab,ti OR 'Serum Glutamic Oxaloacetic Transaminase':ab,ti OR 'aspartic aminotransferase':ab,ti OR 'aspartic transaminase':ab,ti OR 'e.c. 2.6.1.1':ab,ti OR 'glutamate oxalacetate transaminase':ab,ti OR 'glutamate oxalacetic transaminase':ab,ti OR 'glutamate oxalate transaminase':ab,ti OR 'glutamate oxalic transaminase':ab,ti OR 'glutamate oxaloacetate aminotransferase':ab,ti OR 'glutamate oxaloacetate transaminase':ab,ti OR 'glutamic aspartic aminotransferase':ab,ti OR 'glutamatoxalacetate transaminase':ab,ti OR 'glutamate oxaloacetic acid transaminase':ab,ti OR 'glutamic oxalacetic acid transaminase':ab,ti OR 'glutamic oxalacetic transaminase':ab,ti OR 'glutamic oxalacetic transferase':ab,ti OR 'glutamic oxalic transaminase':ab,ti OR 'glutamic oxaloacetic acid transaminase':ab,ti OR 'glutamic oxaloacetic aminotransferase':ab,ti OR 'glutamic oxaloacetic transaminase':ab,ti OR 'glutamine oxaloacetic transaminase':ab,ti OR 'glutaminic oxalacetic transaminase':ab,ti
	#3 #1 AND #2
Scopus	#1 TITLE-ABS-KEY(("rhabdomyolysis" OR "rhabdomyolyses" OR "Bywater's syndrome" OR "Bywaters syndrome" OR "myoglobinurias" OR "myoglobinuria" OR "myoglobulinuria" OR "myohaemoglobinuria" OR "myohaemoglobinuria" OR "compartment syndrome" OR "compartment syndromes" OR "Anterior Tibial Syndrome" OR "Anterior Tibial Syndromes" OR "Popliteal Artery Entrapment" OR "Popliteal Artery Entrapments" OR "Crush Injury" OR "crush injuries" OR "crush trauma" OR "crushing injury" OR "crushing trauma" OR "Crush Syndrome" OR "Crush Syndromes" OR "skeletal muscle damage" OR "muscle trauma" OR "Soft Tissue Injury" OR "Soft Tissue Injuries" OR "muscle contusion")
	#2 TITLE-ABS-KEY(("Aspartate aminotransferases" OR "Aspartate Aminotransferase" OR "Aspartate Apoaminotransferase" OR "Aspartate Transaminase" OR "Glutamic-Oxaloacetic Transaminase" OR "Glutamic Oxaloacetic Transaminase" OR "L-Aspartate-2-Oxoglutarate Aminotransferase" OR "L Aspartate 2 Oxoglutarate Aminotransferase" OR "Glutamate-Aspartate Transaminase" OR "Glutamate Aspartate Transaminase" OR "SGOT" OR "Serum Glutamic-Oxaloacetic

		Transaminase" OR "Serum Glutamic Oxaloacetic Transaminase" OR "aspartic aminotransferase" OR "aspartic transaminase" OR "e.c. 2.6.1.1" OR "glutamate oxalacetate transaminase" OR "glutamate oxalacetic transaminase" OR "glutamate oxalate transaminase" OR "glutamate oxalic transaminase" OR "glutamate oxaloacetate aminotransferase" OR "glutamate oxaloacetate transaminase" OR "glutamic aspartic aminotransferase" OR "glutamatoxalacetate transaminase" OR "glutamate oxaloacetic acid transaminase" OR "glutamic oxalacetic acid transaminase" OR "glutamic oxalacetic transaminase" OR "glutamic oxalacetic transferase" OR "glutamic oxalic transaminase" OR "glutamic oxaloacetic acid transaminase" OR "glutamic oxaloacetic aminotransferase" OR "glutamic oxaloacetic transaminase" OR "glutamine oxaloacetic transaminase" OR "glutaminic oxalacetic transaminase")
	#3	#1 AND #2
WOS	#1	TS=("rhabdomyolysis" OR "rhabdomyolyses" OR "Bywater's syndrome" OR "Bywaters syndrome" OR "myoglobinurias" OR "myoglobinuria" OR "myoglobulinuria" OR "myohemoglobinuria" OR "myohaemoglobinuria" OR "compartment syndrome" OR "compartment syndromes" OR "Anterior Tibial Syndrome" OR "Anterior Tibial Syndromes" OR "Popliteal Artery Entrapment" OR "Popliteal Artery Entrapments" OR "Crush Injury" OR "crush injuries" OR "crush trauma" OR "crushing injury" OR "crushing trauma" OR "Crush Syndrome" OR "Crush Syndromes" OR "skeletal muscle damage" OR "muscle trauma" OR "Soft Tissue Injury" OR "Soft Tissue Injuries" OR "muscle contusion")
	#2	TS=("Aspartate aminotransferases" OR "Aspartate Aminotransferase" OR "Aspartate Apoaminotransferase" OR "Aspartate Transaminase" OR "Glutamic-Oxaloacetic Transaminase" OR "Glutamic Oxaloacetic Transaminase" OR "L-Aspartate-2-Oxoglutarate Aminotransferase" OR "L Aspartate 2 Oxoglutarate Aminotransferase" OR "Glutamate-Aspartate Transaminase" OR "Glutamate Aspartate Transaminase" OR "SGOT" OR "Serum Glutamic-Oxaloacetic Transaminase" OR "Serum Glutamic Oxaloacetic Transaminase" OR "aspartic aminotransferase" OR "aspartic transaminase" OR "e.c. 2.6.1.1" OR "glutamate oxalacetate transaminase" OR "glutamate oxalacetic transaminase" OR "glutamate oxalate transaminase" OR "glutamate oxalic transaminase" OR "glutamate oxaloacetate aminotransferase" OR "glutamate oxaloacetate transaminase" OR "glutamic aspartic aminotransferase" OR "glutamatoxalacetate transaminase" OR "glutamate oxaloacetic acid transaminase" OR "glutamic oxalacetic acid transaminase" OR "glutamic oxalacetic transaminase" OR "glutamic oxalacetic transferase" OR "glutamic oxalic transaminase" OR "glutamic oxaloacetic acid transaminase" OR "glutamic oxaloacetic aminotransferase" OR "glutamic oxaloacetic transaminase" OR "glutamine oxaloacetic transaminase" OR "glutaminic oxalacetic transaminase")
	#3	#1 AND #2

Supplementary Table 2: Search strategy for lactate dehydrogenase (LDH)		
Database	Search query	
PubMed	#1	"Rhabdomyolysis" [mh] OR "Myoglobinuria"[mh] OR "Compartment Syndromes"[mh] OR "Anterior Compartment Syndrome"[mh] OR "Chronic Exertional Compartment Syndrome"[mh] OR "Popliteal Artery Entrapment Syndrome"[mh] OR "Crush Injuries"[mh] OR "Crush Syndrome"[mh] OR "Soft Tissue Injuries"[mh] OR Rhabdomyolysis[tiab] OR rhabdomyolyses[tiab] OR Bywater's syndrome[tiab] OR Bywaters syndrome[tiab] OR myoglobinurias[tiab] OR myoglobinuria[tiab] OR myoglobulinuria[tiab] OR myohemoglobinuria[tiab] OR myohaemoglobinuria[tiab] OR compartment syndrome[tiab] OR compartment syndromes[tiab] OR Anterior Tibial Syndrome[tiab] OR Anterior Tibial Syndromes[tiab] OR Popliteal Artery Entrapment[tiab] OR Popliteal Artery Entrapments[tiab] OR Crush Injury[tiab] OR crush injuries[tiab] OR crush trauma[tiab] OR crushing injury[tiab] OR crushing trauma[tiab] OR Crush Syndrome[tiab] OR Crush Syndromes[tiab] OR skeletal muscle damage[tiab] OR muscle trauma[tiab] OR Soft Tissue Injury[tiab] OR Soft Tissue Injuries[tiab] OR muscle contusion[tiab]
	#2	"Lactate Dehydrogenases"[mh] OR "L-Lactate Dehydrogenase"[mh] OR "Lactate Dehydrogenase 5"[mh] OR Lactate Dehydrogenases[tiab] OR L-Lactate Dehydrogenase[tiab] OR Lactate Dehydrogenase 5[tiab] OR lactate dehydrogenase[tiab] OR lactate dehydrogenase blood level[tiab] OR lactate dehydrogenase isoenzyme[tiab] OR lactate dehydrogenase A[tiab] OR e.c. 1.1.1.27 [tiab] OR l lactate nad oxidoreductase[tiab] OR l lactate nicotinamide adenine dinucleotide oxidoreductase [tiab] OR l lactic dehydrogenase[tiab] OR lactatedehydrogenase [tiab] OR lactic acid dehydrogenase[tiab] OR lactic dehydrogenase[tiab] OR lacticcodehydrogenase[tiab] OR lactodehydrogenase[tiab] OR LDH[tiab] OR Lactate Dehydrogenase-M[tiab] OR LDHM4[tiab] OR LDH-M4[tiab] OR LDH-M[tiab] OR LDH-A[tiab] OR M4-LDH[tiab] OR M4LDH[tiab]
	#3	#1 AND #2
Embase	#1	'Rhabdomyolysis'/exp OR 'crush trauma'/exp OR 'crush syndrome'/exp OR 'Soft Tissue Injury'/exp OR 'compartment syndrome'/exp OR 'muscle contusion'/exp OR 'myoglobinuria'/exp OR 'rhabdomyolysis':ab,ti OR 'rhabdomyolyses':ab,ti OR 'Bywaters syndrome':ab,ti OR 'myoglobinurias':ab,ti OR 'myoglobinuria':ab,ti OR 'myoglobulinuria':ab,ti OR 'myohemoglobinuria':ab,ti OR 'myohaemoglobinuria':ab,ti OR 'compartment syndrome':ab,ti OR 'compartment syndromes':ab,ti OR 'Anterior Tibial Syndrome':ab,ti OR 'Anterior Tibial Syndromes':ab,ti OR 'Popliteal Artery Entrapment':ab,ti OR 'Popliteal Artery Entrapments':ab,ti OR 'Crush Injury':ab,ti OR 'crush injuries':ab,ti OR 'crush trauma':ab,ti OR 'crushing injury':ab,ti OR 'crushing trauma':ab,ti OR 'Crush Syndrome':ab,ti OR 'Crush Syndromes':ab,ti OR 'skeletal muscle damage':ab,ti OR 'muscle trauma':ab,ti OR 'Soft Tissue Injury':ab,ti OR 'Soft Tissue Injuries':ab,ti OR 'muscle contusion':ab,ti
	#2	'lactate dehydrogenase'/exp OR 'lactate dehydrogenase blood level'/exp OR 'lactate dehydrogenase isoenzyme'/exp OR 'lactate dehydrogenase A'/exp OR 'Lactate Dehydrogenases':ab,ti OR 'L-Lactate Dehydrogenase':ab,ti OR 'Lactate Dehydrogenase 5':ab,ti OR 'lactate dehydrogenase':ab,ti OR 'lactate dehydrogenase blood level':ab,ti OR 'lactate dehydrogenase isoenzyme':ab,ti OR 'lactate dehydrogenase A':ab,ti OR 'e.c. 1.1.1.27 ':ab,ti OR 'l lactate nad oxidoreductase':ab,ti OR 'l lactate nicotinamide adenine dinucleotide oxidoreductase ':ab,ti OR 'l lactic dehydrogenase':ab,ti OR 'lactatedehydrogenase ':ab,ti OR 'lactic acid dehydrogenase':ab,ti OR 'lactic dehydrogenase':ab,ti OR 'lacticcodehydrogenase':ab,ti OR 'lactodehydrogenase':ab,ti OR 'LDH':ab,ti OR 'Lactate Dehydrogenase-M':ab,ti OR 'LDHM4':ab,ti OR 'LDH-M4':ab,ti OR 'LDH-M':ab,ti OR 'LDH-A':ab,ti OR 'M4-LDH':ab,ti OR 'M4LDH':ab,ti

	#3	#1 AND #2
Scopus	#1	TITLE-ABS-KEY(("rhabdomyolysis" OR "rhabdomyolyses" OR "Bywater's syndrome" OR "Bywaters syndrome" OR "myoglobinurias" OR "myoglobinuria" OR "myoglobulinuria" OR "myohemoglobinuria" OR "myohaemoglobinuria" OR "compartment syndrome" OR "compartment syndromes" OR "Anterior Tibial Syndrome" OR "Anterior Tibial Syndromes" OR "Popliteal Artery Entrapment" OR "Popliteal Artery Entrapments" OR "Crush Injury" OR "crush injuries" OR "crush trauma" OR "crushing injury" OR "crushing trauma" OR "Crush Syndrome" OR "Crush Syndromes" OR "skeletal muscle damage" OR "muscle trauma" OR "Soft Tissue Injury" OR "Soft Tissue Injuries" OR "muscle contusion")
	#2	TITLE-ABS-KEY(("Lactate Dehydrogenases" OR "L-Lactate Dehydrogenase" OR "Lactate Dehydrogenase 5" OR "lactate dehydrogenase" OR "e.c. 1.1.1.27" OR "l lactate nad oxidoreductase" OR "l lactate nicotinamide adenine dinucleotide oxidoreductase" OR "l lactic dehydrogenase" OR "lactatedehydrogenase" OR "lactic acid dehydrogenase" OR "lactic dehydrogenase" OR "lacticodehydrogenase" OR "lactodehydrogenase" OR "LDH" OR "Lactate Dehydrogenase-M" OR "LDHM4" OR "LDH-M4" OR "LDH-M" OR "LDH-A" OR "M4-LDH" OR "M4LDH")
	#3	#1 AND #2
WOS	#1	TS=("rhabdomyolysis" OR "rhabdomyolyses" OR "Bywater's syndrome" OR "Bywaters syndrome" OR "myoglobinurias" OR "myoglobinuria" OR "myoglobulinuria" OR "myohemoglobinuria" OR "myohaemoglobinuria" OR "compartment syndrome" OR "compartment syndromes" OR "Anterior Tibial Syndrome" OR "Anterior Tibial Syndromes" OR "Popliteal Artery Entrapment" OR "Popliteal Artery Entrapments" OR "Crush Injury" OR "crush injuries" OR "crush trauma" OR "crushing injury" OR "crushing trauma" OR "Crush Syndrome" OR "Crush Syndromes" OR "skeletal muscle damage" OR "muscle trauma" OR "Soft Tissue Injury" OR "Soft Tissue Injuries" OR "muscle contusion")
	#2	TS=("Lactate Dehydrogenases" OR "L-Lactate Dehydrogenase" OR "Lactate Dehydrogenase 5" OR "lactate dehydrogenase" OR "lactate dehydrogenase blood level" OR "lactate dehydrogenase isoenzyme" OR "lactate dehydrogenase A" OR "e.c. 1.1.1.27" OR "l lactate nad oxidoreductase" OR "l lactate nicotinamide adenine dinucleotide oxidoreductase" OR "l lactic dehydrogenase" OR "lactatedehydrogenase" OR "lactic acid dehydrogenase" OR "lactic dehydrogenase" OR "lacticodehydrogenase" OR "lactodehydrogenase" OR "LDH" OR "Lactate Dehydrogenase-M" OR "LDHM4" OR "LDH-M4" OR "LDH-M" OR "LDH-A" OR "M4-LDH" OR "M4LDH")
	#3	#1 AND #2

Supplementary Table 3: Quality of the evidence assessed by GRADE (grading of recommendations, assessment, development, and evaluations) scoring system

GRADE system	AST		LDH	
	Assessment	Level change	Assessment	Level change
Domains				
Risk of bias	No serious limitations		No serious limitations	
Imprecision	No serious limitations		Serious limitations	-1 level
Inconsistency	Serious limitations	-1 level	Serious limitations	-1 level
Indirectness	No serious limitations		No serious limitations	
Publication bias	Serious limitations	+1 level *	Serious limitations	+1 level *
Upgrading score factors				
Effect size	Large effect size	+1 level	Large effect size	+1 level
Overall certainty of the evidence	● ● ● ○ (Moderate)		● ● ○ ○ (Low)	

*Authors considered upgrading the GRADE score by one level due to the potential publication bias in favor of non-significant results, as suggested by the asymmetrical distribution of studies in the funnel plot.