study	protein	gene	miRNA
diagnostic markers-1	PCT, CRP, suPAR, Proadrenomedullin, Lactic acid	SeptiScore: CEACAM4, LAMP1, PLA2G7, PLAC8. Sepsis MetaScore: CEACAM1, ZDHHC19, C9orf95/NMRK1, GNA15, BATF, C3AR1, KIAA1370, TGFBI, MTCH1, RPGRIP1, HLA-DPB1.	
diagnostic markers-2	PCT, CRP, IL-6, IL-1RA, IL-10.		
diagnostic markers-3	PCT, CRP, IL-6, CD64, HMGB1	SeptiCyte LAB (PLAC8, CEACAM4).	
diagnostic markers-4	TNF-α, IL-1β, IL-6, LBP PCT ,CRP ,Lactate , ADM, suPAR Ang-1/Ang-2, CD64, sTREM-1		
diagnostic markers-5	PCT, CRP, IL-6, D-dimer, Proadrenomedullin (ProADM), sTREM-1.		
diagnostic markers-6	PCT, CRP, suPAR, HBP	IL-8	miR-499-5p
diagnostic markers-7	PCT, sCD14-ST, suPAR, PTX-3		miR-150, miR-193b LncRNAs: MALAT1
diagnostic markers-8	PCT, CRP, Interleukins (IL-6, IL-8, IL-10, TNF- α), sCD14-ST, Thrombomodulin, Heat Shock Proteins (HSPs).	TLR4, CD14, Acadm, Angptl4, Ppargc1a.	miR-150, miR-223 LncRNAs: MALAT1.
diagnostic markers-9	PCT, CRP, Angiopoietins (Ang-1, Ang-2), Endocan, CD64, sTREM-1, cf-DNA PD-1/PD-L1, BTLA, and CTLA-4	TNF-α, IL-6, IL-8, IL-10	
diagnostic markers-10	CRP, PCT, LBP, Pentraxin-3, sTREM-1, suPAR, CD64, mHLA-DR	TLRs, CD14	
diagnostic markers-11	TNF, IL-1β, IL-6, IL-8, MCP-1 IL-10, TGF-β, CRP, PCT, Pentraxin 3 (PTX3) CD64, TREM-1, CD11b, D-dimer, Thrombomodulin (TM), HMGB1, S100 Proteins (e.g., S100A8, S100A9) (HBP), RAGE, LBP, sCD14 HLA-DR, PD-1, CTLA-4.	IL6, TNF, CCL2, IL10, TGFB1, CRP, CALCA, PTX3, FCGR1A, TREM1, ITGAM, THBD, HMGB1, S100A8, S100A9 AZU1, AGER, LBP, CD14 HLA-DRA, PDCD1, CTLA4	miR-150, miR-146b , miR-143, miR-342, let-7g
diagnostic markers-12	PCT, CRP	IL-6, cytokine-related genes	
diagnostic markers-13	PCT, CRP, Presepsin (sCD14-ST sTREM-1, ADM, Circulating Nucleosomes, HLA-DR	S100A8, S100A12, CD74, HLA-DR, IL6, TNF	
diagnostic markers-14	Cardiolipin		miR-223, miR-146a
diagnostic markers-15	Lactate, CRP, PCT, HBP IL-6, IL-8, IL-10, Presepsin, MCP-1, CD64, suPAR, sTREM-1.	CRP, CALCA, AZU1, IL6, CXCL8, IL10, CD14, CCL2, FCGR1A, PLAUR, TREM1	
diagnostic markers-16	CRP, PCT, TNF- α , IL-1 β , IL-6, IL-10, HMGB1, Osteopontin, sTREM-1, suPAR	IL-1β, IL-6, IL-8, IL-10, TNF-α, FasL, CCL2.	miR-150, miR-146a, miR-223.
diagnostic markers-17			miR-15a, miR-16, miR-122, miR-146a, miR-223, miR-483-5p, miR-499-5p, miR-574-5p, miR-150, miR-193b let-7b, miR-15b, miR-16, miR-145, miR-146a, miR-210, miR-324-3p, miR-340, miR-484, miR-486-5p

diagnostic markers-18	TNF-α, IL-10, MCP-1, CXCL10	IL-6, CXCL10	
diagnostic markers-19	CCL19, CCL25, FLT3, GATA3	NOTCH1, IL7R, CCR7, CCR9	
gene-expression level-1		S100A8, S100A9, LCN2, FPRL1, IRF7, NGP, SAA3, ID2 CD3D, CD247., HLA-DMA., HLA-DRB1, GATA3, STAT4:	
gene-expression level-2		TNF-α, IL-12, IFN-γ, IL-10, IL-4	
gene-expression level-3		CEACAM1, TREM1, IL1RN, ANXA3, S100A12, IFI44L, TNFAIP6, CCL3, DUSP1, GBP1, SERPING1	
gene-expression level-4		NF-κB, MAPKs, IL-6, CXCL10, S100A8, S100A9, IL-10. CD69, CD8, IL2RB, MHC Class II genes	
gene-expression level-5		TDAG8, TLR4, IL-6, IL-21., CXCL8, MCP-1,	miR-3663-3p
gene-expression level-6		ST7L, ANAPC5, MAP2K5, TRBV28, COL6A2, TMED1	
gene-expression level-7		NFKBIA, MYD88, MAP3K, S100A8, S100A9, IFI44L	
gene-expression level-8		HLA-DRA, TNF-α	
gene-expression level-9		ELANE, MPO, MMP8, CTSG, ADORA3 CD3D, LCK, ZAP70, IL2RB, CD8A.	
gene-expression level-10		CD177, FAM20A, OLA, MMP9, ITGA7, ADM CETP, PLA2G7, ARHGEF10L, PLXNB3, MPP3	
gene-expression level-11		TLR2, TLR4, TLR5, MAPK14, IL1R1, IL18R1, IFNGR1 CASP4, FAS, BCL2A1	
gene-expression level-12		IL8, MMP-8, MMP-9, CCL4, CX3CR1	
gene-expression level-13		BPGM, TAP2, GADD45A, PCGF5, PDCD10, IFIT5, GLTSCR2	
gene-expression level-14		TLR1, TLR4, TLR5, TLR7, TLR8, MAPK14, NF-kB1 TLR6, TLR9, TLR10, IFNG	
gene-expression level-15		IFN-γ, TNF-α, IL-7, IL-23, IL-10, IL-6	
gene-expression level-16		MuRF1, MAFbx/atrogin-1	
gene-expression level-17	IL-6, IL-10, TNF-α	HIF-1α, Adrenomedullin, CD11a, CD11b	
gene-expression level-18	Melatonin, IL-6, TNF-α:	Cry-1, Per-2,	
jene-expression level-19	HLA-DR, CX3CR1	ALOX5AP, ARHGEF10L	
gene-expression level-20		TLR2, TLR4, IL1B, TNF, S100A12 CXCL2, CXCL3, CCR1, HLA-DRB1, HLA-DRA, CD74, ATP5B, COX5A, COX10	
gene-expression level-21		HCK, PRKCD, SIRPA, DOK3, ITGAM, LTB4R, MAPK14, MALT1, NLRC3, LCK	
gene-expression level-22		HLA-DR, SOCS1, SOCS3, PDCD1 (PD-1), CTLA-4, LAG-3	
gene-expression level-23		DRAM1	
jene-expression level-24		ITGAM, CD44, C3AR1, IL2RG	
gene-expression level-25		VEGFA, LCN2, TLR4, IGFBP3, PF4	miR-30c-5p, let-7a-5p
gene-expression level-26		IL10, LCN2, IL7R, CD40LG, CD28	
gene-expression level-27		CXCL10, MMP9, IL10, SOCS3, MAPK14	
gene-expression level-28		TNFAIP6, GBP1, CXCL10, CXCL5, FCN1, PID1	
gene-expression level-29			
gene-expression level-30			

Bioinformatics-methods-1	Upregulated Genes: OLFM4, ORM1, CEP55, S100A12, S100P, LRG1, CEACAM8, MS4A4A, PLSCR1, IL1R2. Downregulated Genes: THEMIS, IL2RB, CD2, IL7R, CD3E,	
Bioinformatics-methods-2	KLRB1, PVRIG, CCR3, TGFBR3, PLEKHA1. Up-regulated Genes: TLR5, CD59, CLU Down-regulated Genes: FGL2, IL7R, HLA-DPA1, CPVL	
Bioinformatics-methods-3	Diagnostic: CEACAM1, S100A8, S100A9, CXCL10, IL1RN, MMP9, IFI44L, ELANE, CEACAM6, CXCL8 (IL-8), TNFAIP6, OAS1, HLA-DRA, CD74, TLR4, and PTX3. prognostic: CXCL10, IL1RN, MMP9, HLA-DRA, PTX3, OAS1, TNFAIP6, and. CXCL8 (IL-8)	
Bioinformatics-methods-4	diagnostic: S100A8, S100A12, PF4	
Bioinformatics-methods-5	DOK3, ICAM2, IL1R1, LGALS2, LSG1, RPL13A, RPS13, SGSH	
Bioinformatics-methods-6	Prognostic Upregulated :TRIB1, DEFA4, HIF1A, SEPP1, CD163, RGS1, BPI, MPO, DDIT4. Prognostic Downregulated : LY86, TST, NT5E, CX3CR1, CD5, AIM2, GSTM1.	
Bioinformatics-methods-7	Diagnostic: GBP-2 (High expression in gram-negative sepsis) C-Type Lectin: Relevant in immune responses to gram-positive pathogens. Prognostic: IκΒ-β, C/EBP-β and C/EBP-δ, Notch Pathway Genes (Sel1, Itch)	
Bioinformatics-methods-8	Prognostic: BCL2, FASLG, J. AK3, IRF9	
Bioinformatics-methods-9	diagnostic: CD177, GPR84, FGF13, KLRK1, MYL9, PCOLCE2, TDRD9, SLC16A3 most significat ones: CD177, GPR84, MYL9	
Bioinformatics-methods-10	diagnostic and prognostic : S100A11 , CCNA2	
Bioinformatics-methods-11	prognostic :CD36, FOS, RPL11, SAT1, CTSW, MAP3K7, GIMAP4, TRAIL, CD93, PPDPF	