



ارتباط آزمایشگاه و بالین

Medical Laboratory & clinic

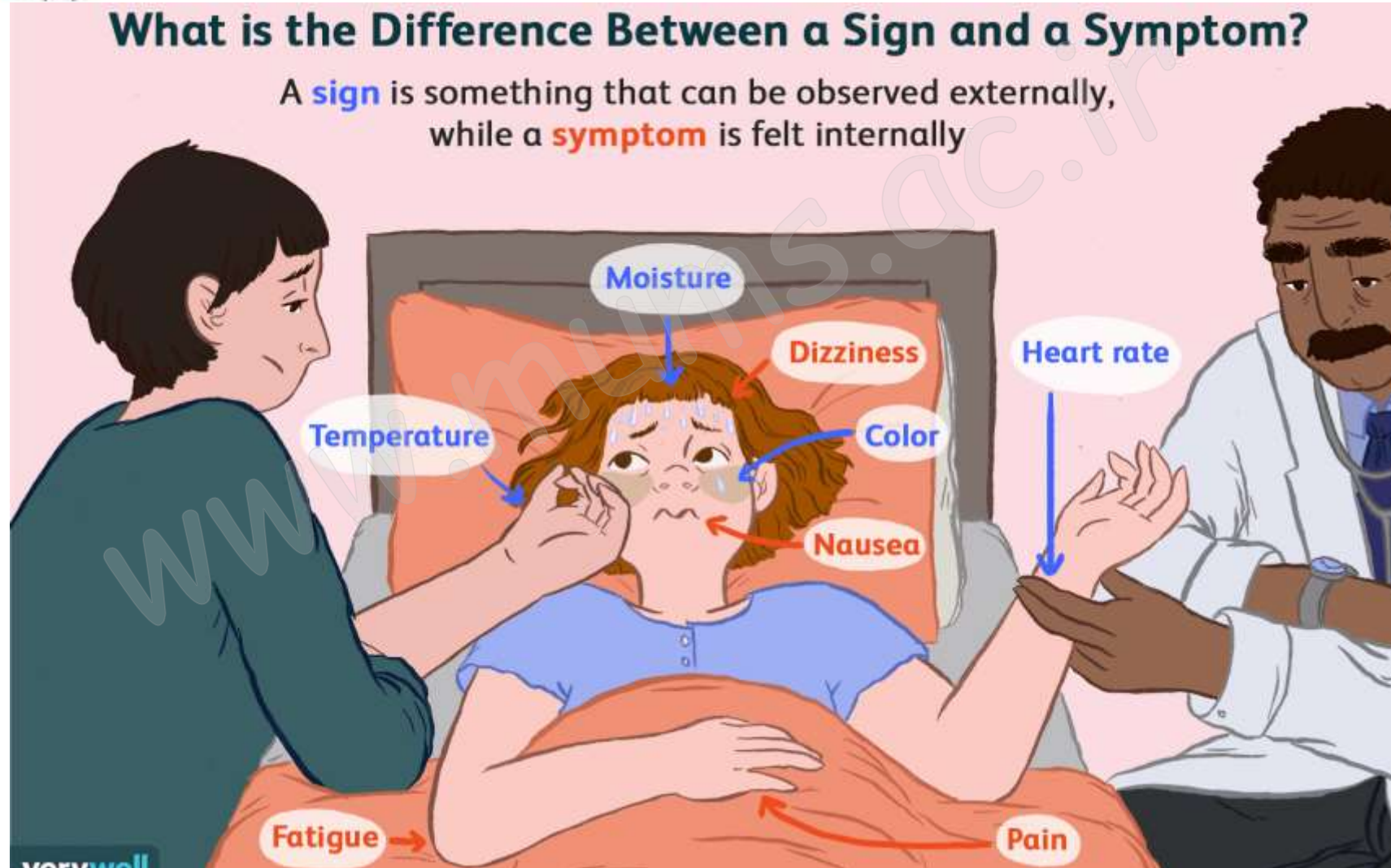
ارائه دهنده: الهام خسروی

محرری جلسه: دکتر هادی فارسیانی



Chief complaint

SIGNS
&
SYMPTOMS



Oriented



DC: Discontinue



Tachypnea

Bradypnea

Dyspnea

Apnea



- Age 0-1 year < 30 bpm
- Age 1-3 years < 25 bpm
- Age 3-12 years < 20 bpm
- Age 12-50 years < 12 bpm
- Age 50 and up < 13 bpm

Tachycardia

Bradycardia

Arrhythmia



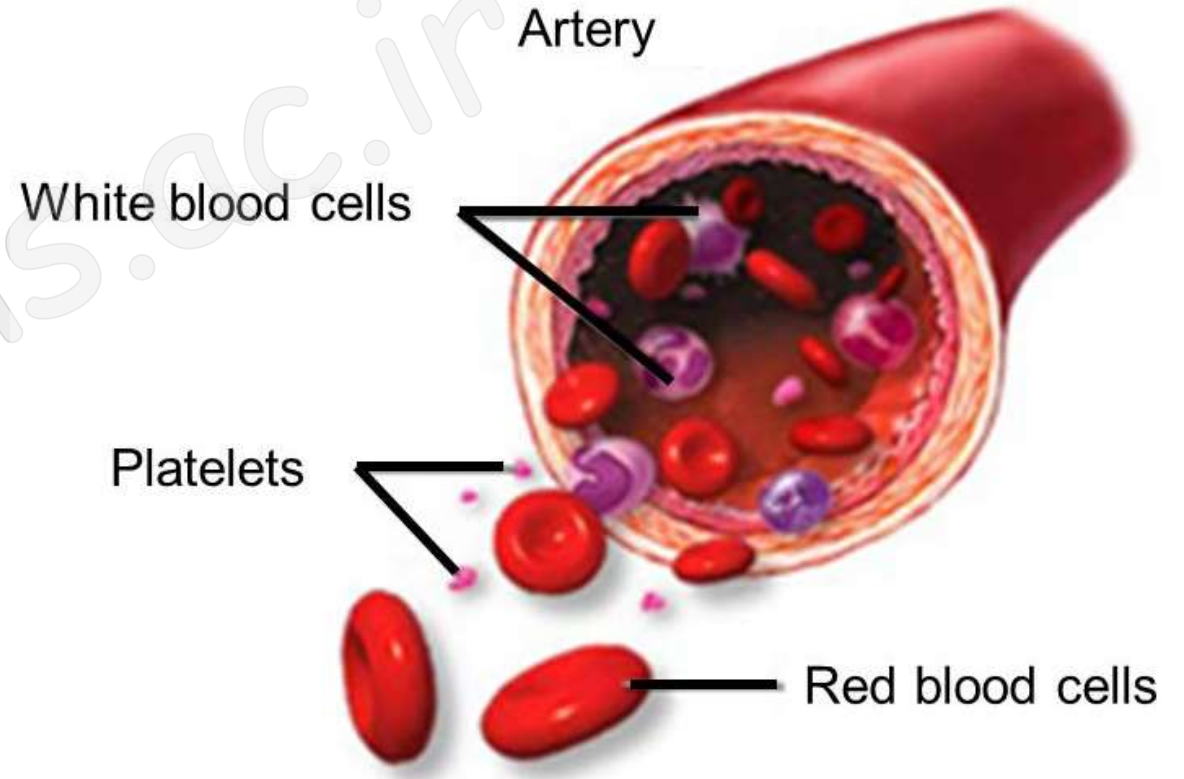
Toddler (1 to 3 years): 98 - 140 bpm
Preschool (3 to 5 years): 80 - 120 bpm
School-age (5 to 12 years): 75 - 118 bpm
Adolescents (13 to 18 years): 60 - 100 bpm

- Leukopenia and Leukocytosis
- Thrombocytopenia and Thrombocytosis
- Polycythemia and Anemia

Epistaxis



Blood



Meningitis

FC: febrile convulsion

Brudzinski's sign

chin to chest



photophobia



phonophobia



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Relationship Between Common Bacterial Pathogens and Factors Predisposing to Meningitis

- Age
- Immunocompromised state
- Basilar skull fracture
- Head trauma; after neurosurgery

PREDISPOSING FACTOR

BACTERIAL PATHOGENS

Age

<1 mo

Streptococcus agalactiae, *Escherichia coli*,
Listeria monocytogenes

1–23 mo

S. agalactiae, *E. coli*, *Haemophilus influenzae*, *Streptococcus pneumoniae*,
Neisseria meningitidis

2–50 yr

S. pneumoniae, *N. meningitidis*

>50 yr

S. pneumoniae, *N. meningitidis*, *L. monocytogenes*, aerobic gram-negative bacilli

Immunocompromised state

S. pneumoniae, *N. meningitidis*, *L. monocytogenes*, aerobic gram-negative bacilli (including *Pseudomonas aeruginosa*)

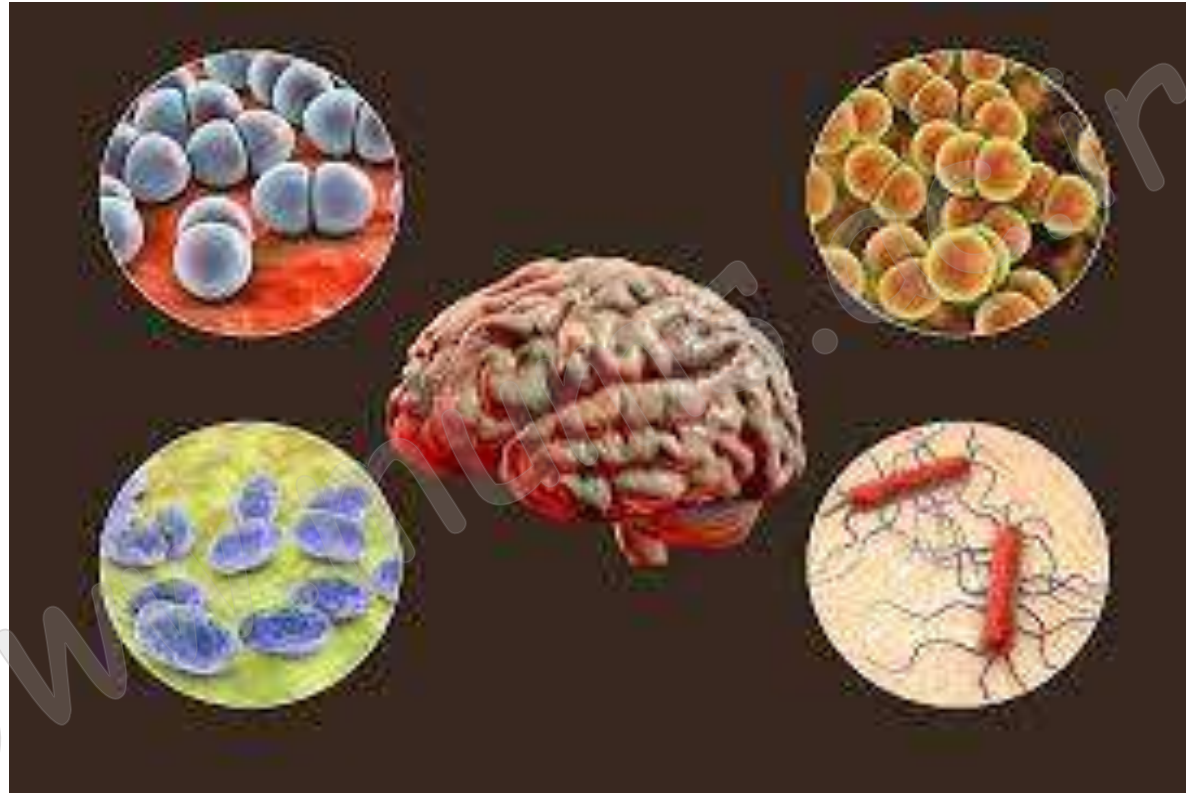
Basilar skull fracture

S. pneumoniae; *H. influenzae*; group A streptococci

Head trauma; after neurosurgery

Staphylococcus aureus, coagulase-negative staphylococci (especially *Staphylococcus epidermidis*), aerobic gram-negative bacilli (including *P. aeruginosa*)

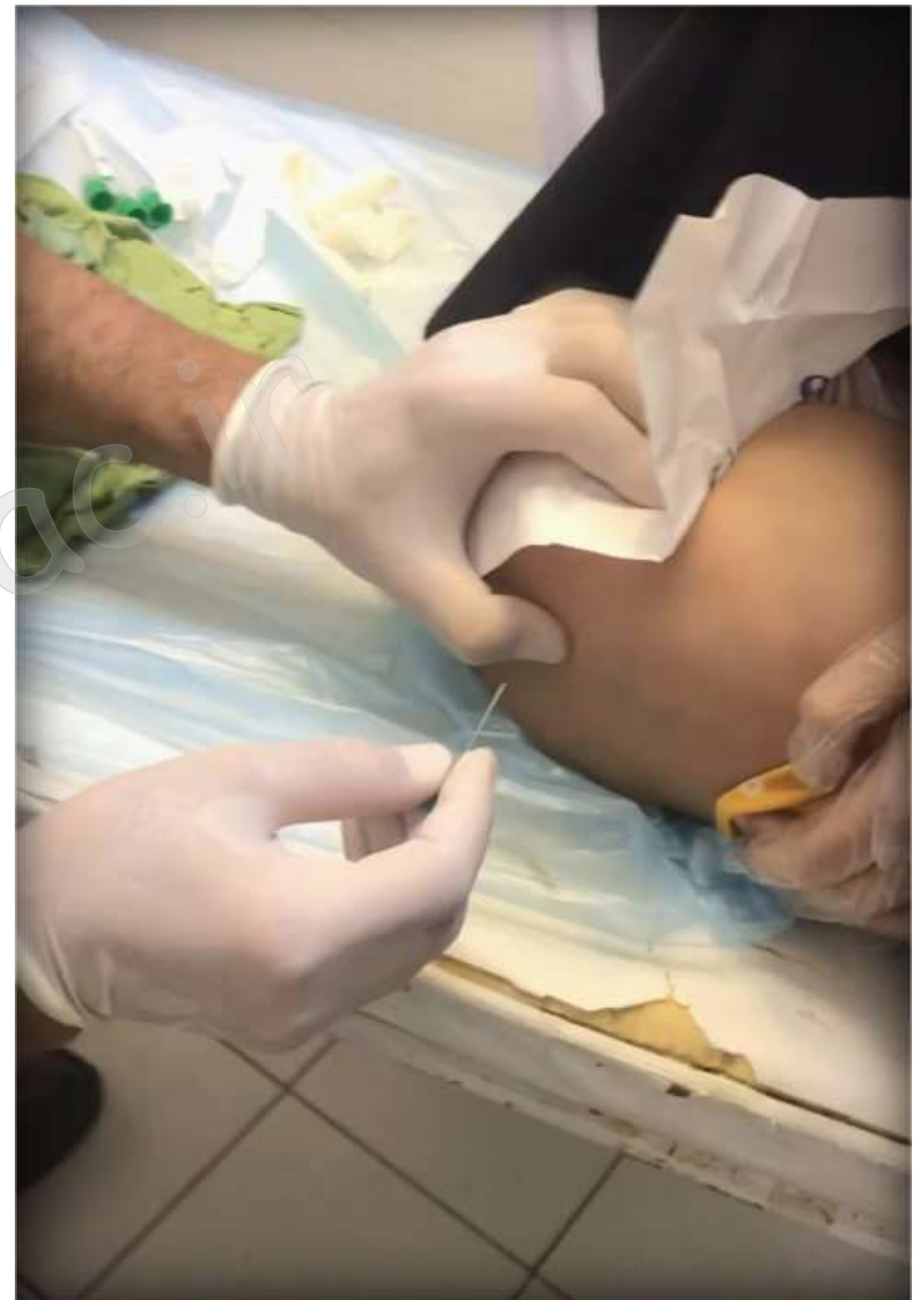
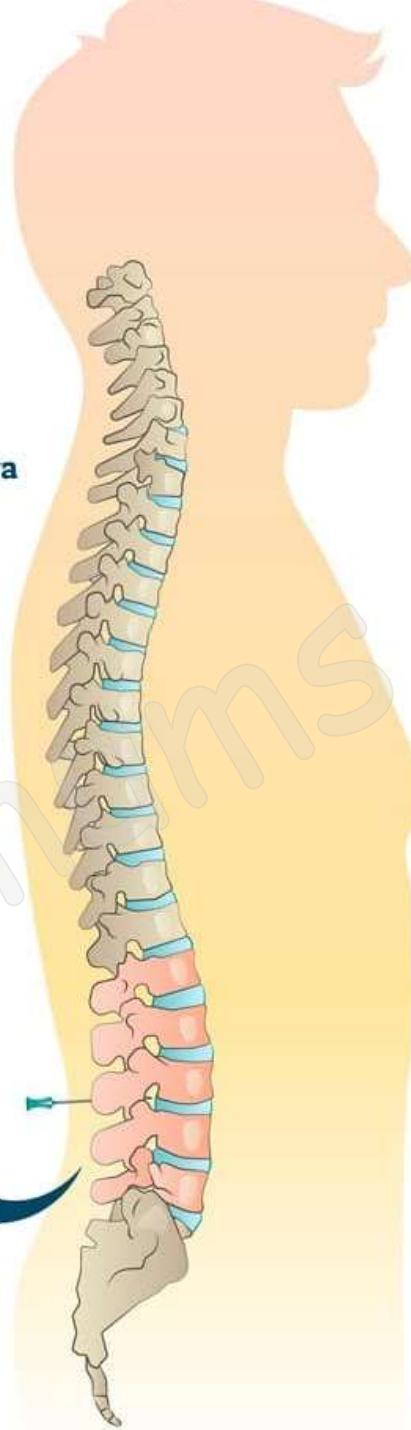
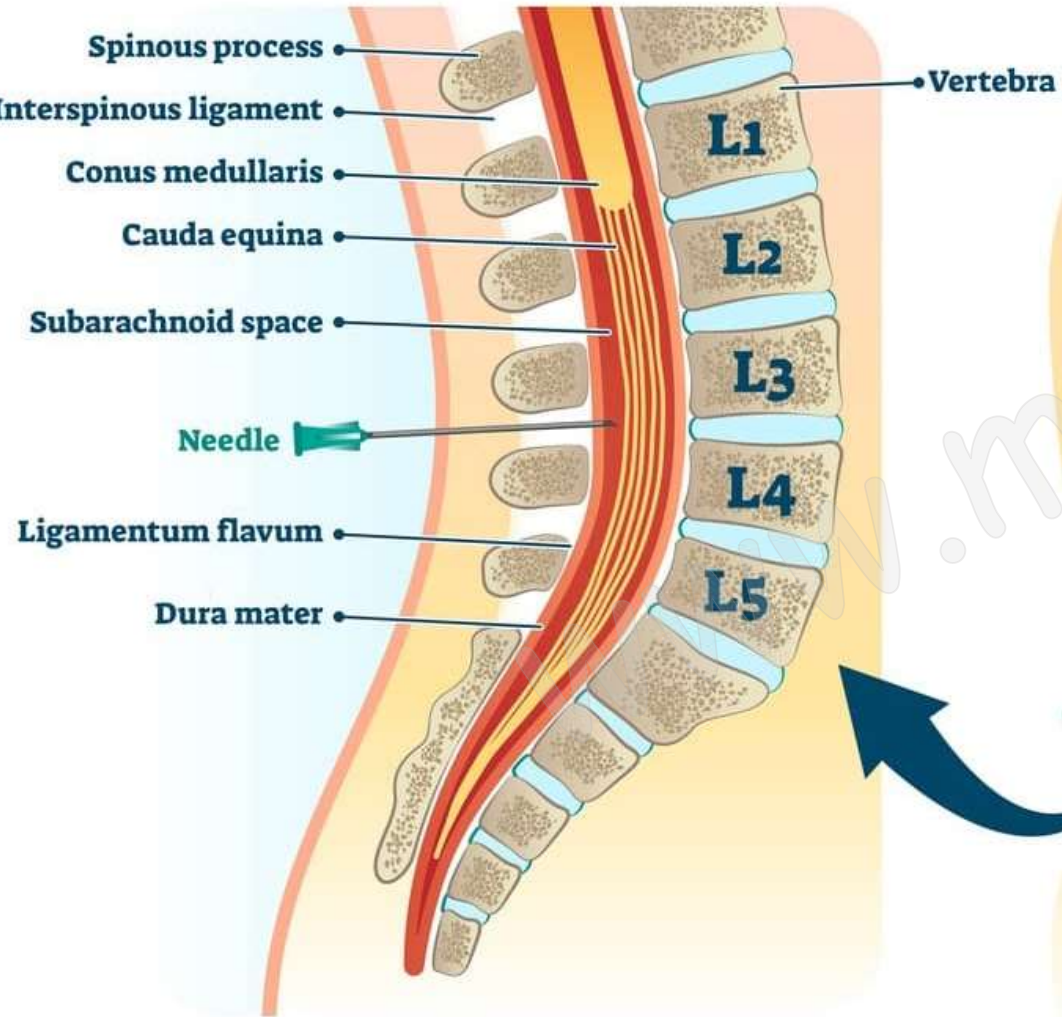
Acute & Chronic Meningitis



Chronic Meningitis

- *Mycobacterium tuberculosis* (tuberculosis)
- *Treponema pallidum* (syphilis)
- *Borrelia burgdorferi* (Lyme disease)
- *Tropheryma whipplei* (Whipple disease)
- *Actinomyces* (actinomycosis)
- *Nocardia* (nocardiosis [with brain abscess])
- *Brucella* (brucellosis [rare])

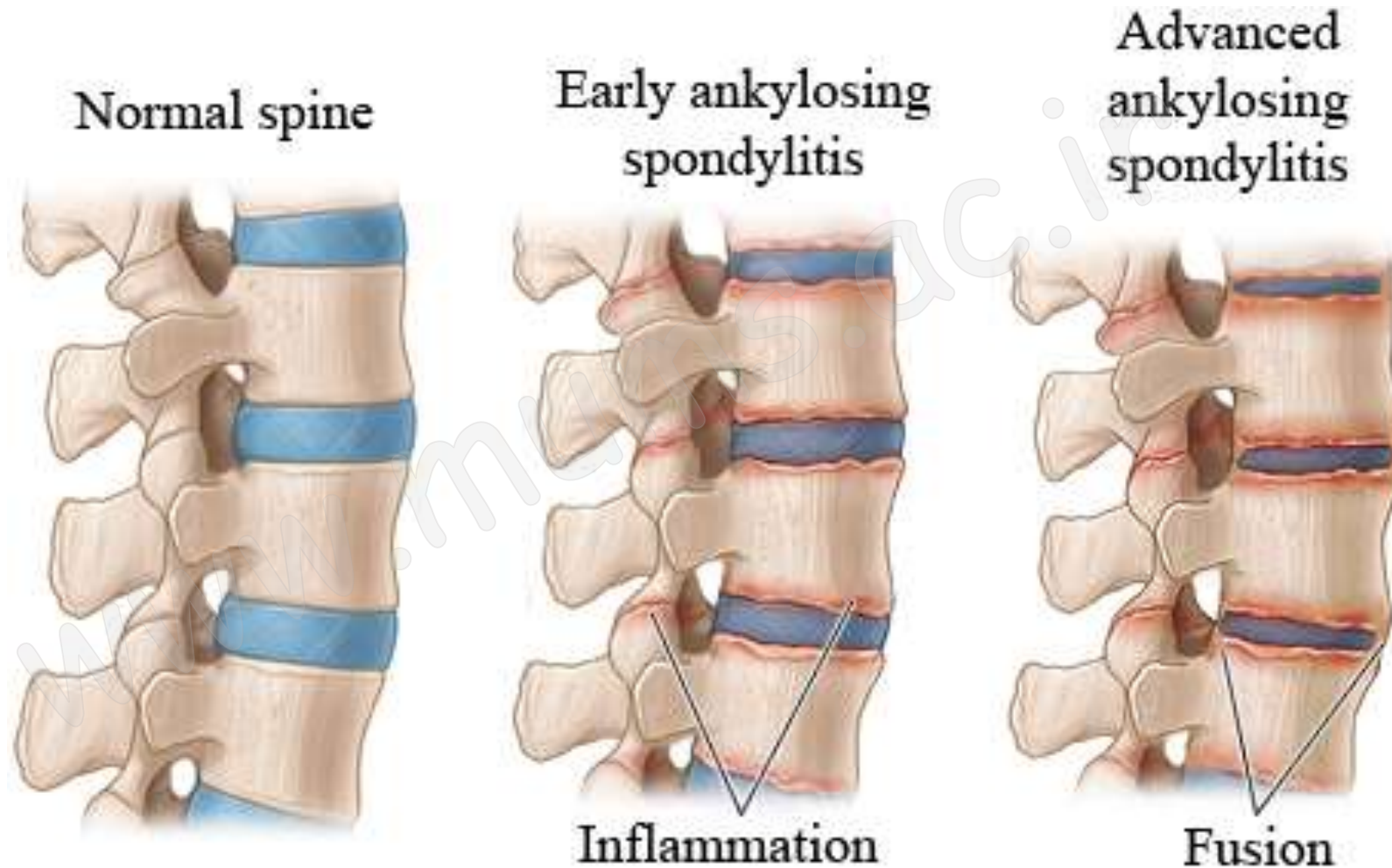
LUMBAR PUNCTURE



Intrathecal injection



spondylitis



spondylodiscitis



CRP

بیمارستان امام رضا (ع) - مشهد - آزمایشگاه اورژانس - بیوشیمی اورژانس

شماره پرونده: 109-43-43, 1

پزشک معالج:



100100004664937

تاریخ جواب: 1401/10/13, 15:28:00

CPR تحت نظر - اعدالتیان - CPR اعدالتیان

اتاق یک - تخت 15 - ICU - اعدالتیان - C جنرال ICU

نام و نام خانوادگی: خانم

جنسیت و سن: مونث - 82 سال

تاریخ درخواست: 1401/10/13, 13:58:36

تاریخ دریافت: 1401/10/13, 14:10:53

درخواست دهنده:

بخش فعلی:

Test Name	Result	Unit	Reference Value
Urea	111	mg/dL	(17 - 45)
Creatinine	2.4	mg/dL	(0.6 - 1.3)
AST (SGOT)	85	U/L	(5 - 40)
ALT (SGPT)	29	U/L	(5 - 40)
ALP	222	U/L	Adults (< 258)
CRP	342.6	mg/L	(0 - 8)
Sodium	132	mEq/L	(135 - 145)
Potassium	4	mEq/L	(3.5 - 5.3)
BS	134	mg/dL	
Comment:	نمونه همولیز		
Total Billirubin	0.9	mg/dL	(< 1.1)
Direct Billirubin	0.2	mg/dL	(< 0.4)

Lab Director

دکتر حامد صادقان
مختص کلیات و بیماری های داخلی

GCS: Glasgow Coma Scale

EYE OPENING		VERBAL RESPONSE		MOTOR RESPONSE	
					
Spontaneous	> 4	Orientated	> 5	Obey commands	> 6
To sound	> 3	Confused	> 4	Localising	> 5
To pressure	> 2	Words	> 3	Normal flexion	> 4
None	> 1	Sounds	> 2	Abnormal flexion	> 3
		None	> 1	Extension	> 2
				None	> 1
GLASGOW COMA SCALE SCORE					
Mild 13-15		Moderate 9-12		Severe 3-8	

Antibiogram

- *Streptococcus pyogenes*
- *Streptococcus agalactiae*
- *Haemophilus influenzae*
- *Moraxella catarrhalis*
- *Neisseria gonorrhoeae*

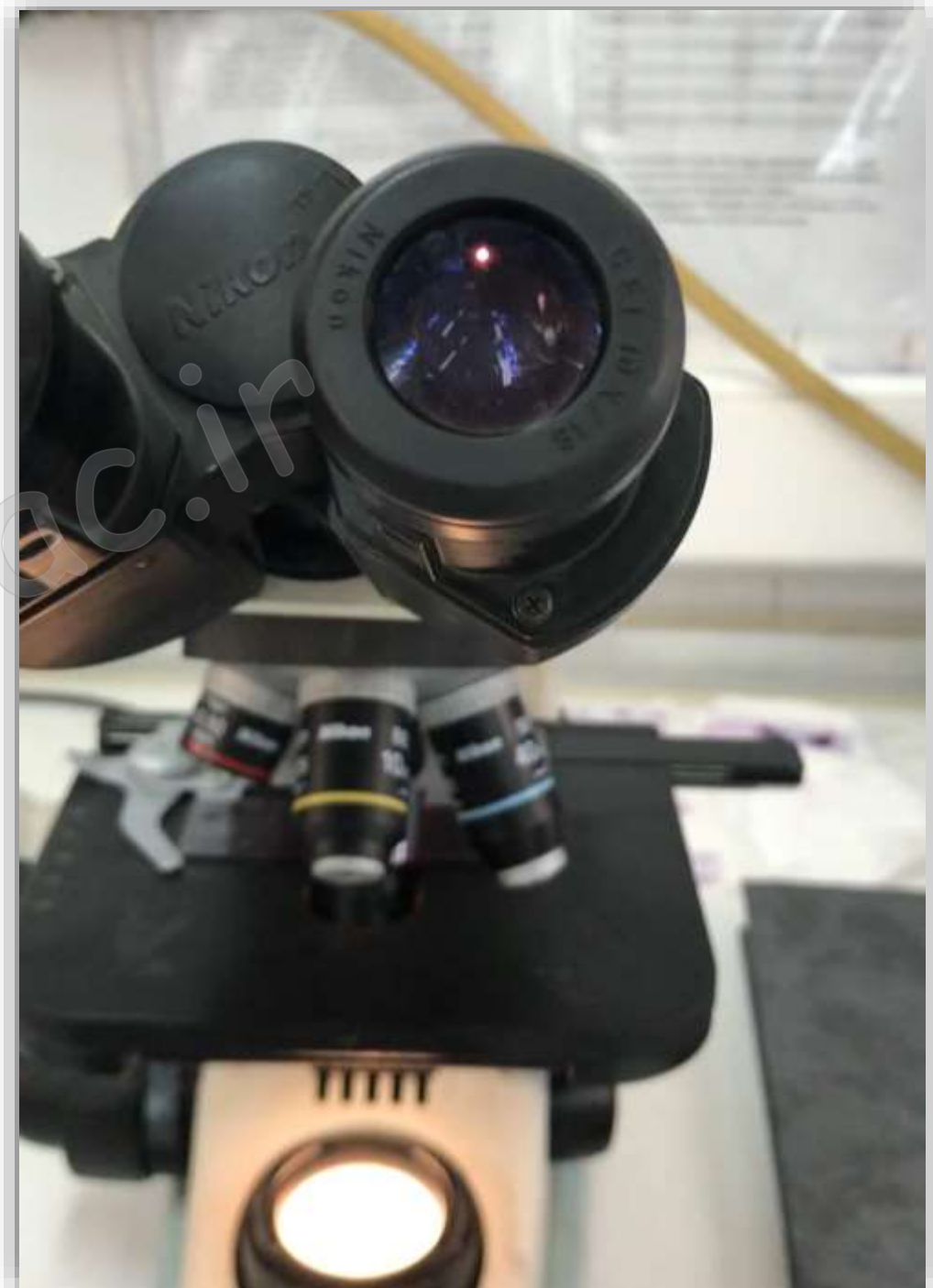


Campylobacter



Primary Regimens

- Imipenem 500 mg IV q6h or Meropenem 1 gm IV q8h



Probiotic & *C.difficile*



Reference: UpToDate

catheter-related bloodstream infection



Endocarditis



Major & Minor Duke Criteria

- Major criteria: Blood Culture Positive
- Causes of Culture-Negative Endocarditis
- NVS: *Abiotrophia* and *Granulicatella* spp



shigellosis



Wound Infection

- *Mycobacterium marinum*
- *Aeromonas spp*
- *Vibrio vulnificus*



fasciitis necrosante



Osteomyelitis







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باتشکر از توجه شما