

Hematology Competency Quiz Images

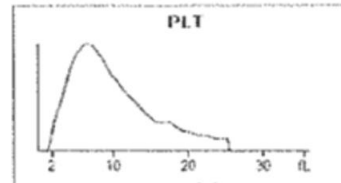
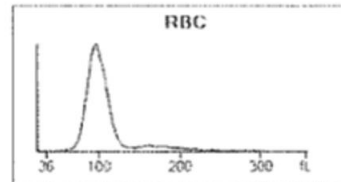
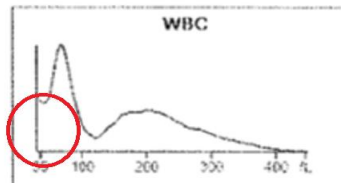
2.

Name: ██████████
 Gender: Female
 Location: VCMC Lab
 Comment:

Patient ID: ██████████
 Age: 22 Years
 DOB: 05/02/1995

| Panels | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|--------|----------------|----------|----------|------------|--------|------------|
| C | (C) 12/15/2017 | 19:36:31 | 00997 | DXH800 B | SYSTEM | |

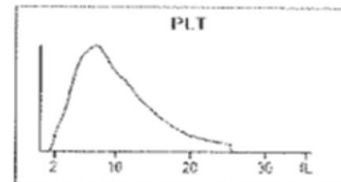
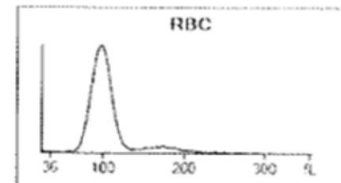
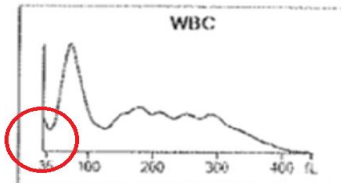
| Test | Result | Flags | Units |
|------|--------|-------|---------------------|
| WBC | 10.1 | | 10 ³ /uL |
| UWBC | 10.1 | | 10 ³ /uL |
| RBC | 4.77 | | 10 ⁶ /uL |
| HGB | 15.9 | | g/dL |
| HCT | 45.3 | | % |
| MCV | 95.1 | | fL |
| MCH | 33.3 | H | pg |
| MCHC | 35.1 | | g/dL |
| RDW | 12.4 | | % |
| PLT | 113 | R L | 10 ³ /uL |
| MPV | 10.3 | R | fL |



Suspect System
Platelet Clumps

| CD | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|-----|------------|----------|----------|------------|--------|--------------------|
| (C) | 12/15/2017 | 20:02:34 | 00941 | DXH800 B | SYSTEM | Default Test Order |

| Test | Result | Flags | Units |
|------|--------|-------|---------------------|
| WBC | 8.7 | | 10 ³ /uL |
| UWBC | 8.7 | | 10 ³ /uL |
| RBC | 4.81 | | 10 ⁶ /uL |
| HGB | 15.9 | | g/dL |
| HCT | 45.2 | | % |
| MCV | 94.0 | | fL |
| MCH | 33.0 | | pg |
| MCHC | 35.1 | | g/dL |
| RDW | 12.4 | | % |
| PLT | 160 | R | 10 ³ /uL |
| MPV | 10.4 | R | fL |
| NE | 55.39 | | % |
| LY | 34.86 | | % |
| MO | 7.03 | | % |
| EO | 2.50 | | % |
| BA | 0.22 | | % |
| NE# | 4.842 | | 10 ³ /uL |
| IY# | 3.047 | | 10 ³ /uL |



Suspect System
Platelet Clumps

4.

| | | |
|---------------------|----------------|--|
| Name: [REDACTED] | DOB: 3/29/1936 | Location: Outpatient Clinic / Ventura County Medical Center |
| MRN: [REDACTED] | Age: 81 years | Attending: [REDACTED] |
| FIN NBR: [REDACTED] | Gender: Female | Admitted: 12/15/2017 2:30 Discharged: |

| Procedure | Service Resource... | 2 | Result | Flags | Status | Referenc... | Service Resource... | Prev | Time |
|------------------|---------------------|-------------------------------------|---------|-------|------------|-------------|---------------------|--------------|---------|
| NRBC DXH ... | VCMC DxH 800 A | <input type="checkbox"/> | | | | | | 0.20 | 13 days |
| VALIDATEB | VCMC DxH 800 A | <input checked="" type="checkbox"/> | AUTOVAL | | Perform... | | VCMC DxH 800 A | NOT VALID... | 13 days |
| WBC | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 8.4 | | Perform... | 4.8 - 10.8 | VCMC DxH 800 A | 7.6 | 13 days |
| RBC | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 4.64 | | Perform... | 4.20 - 5.40 | VCMC DxH 800 A | 4.66 | 13 days |
| Hgb | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 13.7 | | Perform... | 12.0 - 16.0 | VCMC DxH 800 A | 13.8 | 13 days |
| Hct | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 39.7 | | Perform... | 37.0 - 47.0 | VCMC DxH 800 A | 41.7 | 13 days |
| MCV | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 85.6 | Df | Perform... | 81.0 - 99.0 | VCMC DxH 800 A | 89.4 | 13 days |
| MCH | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 29.7 | | Perform... | 24.3 - 33.2 | VCMC DxH 800 A | 29.7 | 13 days |
| MCHC | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 34.6 | | Perform... | 32.5 - 35.8 | VCMC DxH 800 A | 33.2 | 13 days |
| RDW | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 13.4 | | Perform... | 12.3 - 17.7 | VCMC DxH 800 A | 14.2 | 13 days |
| Platelet | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 202 | | Perform... | 130 - 400 | VCMC DxH 800 A | 213 | 13 days |
| MPV | VCMC DxH 800 A | <input checked="" type="checkbox"/> | 8.5 | | Perform... | 7.4 - 10.4 | VCMC DxH 800 A | 8.8 | 13 days |

7.

VENTURA COUNTY MED CTR.
329 LOMA VISTA ROAD

XB Batch Means
BRAD S. ADLER, MD.

VENTURA CA. 93003

Instrument DXH800 B

| Batch Date/Time | N | Reviewed By | MCV | | MCH | | MCHC | | |
|---------------------|----|--------------|------|-------|------|-------|------|-------|--|
| | | | Mean | %Diff | Mean | %Diff | Mean | %Diff | |
| Current Batch | | In Progress | | | | | | | |
| 12/16/2017 11:36:18 | 20 | Not Reviewed | 87.5 | -2.68 | 30.0 | 1.76 | 34.3 | 4.07 | |
| 12/16/2017 00:36:36 | 20 | Not Reviewed | 87.5 | -2.66 | 30.0 | 1.79 | 34.3 | 4.07 | |
| 12/15/2017 19:52:32 | 20 | Not Reviewed | 87.6 | -2.61 | 30.1 | 1.91 | 34.4 | 4.16 | |
| 12/15/2017 19:21:44 | 20 | Not Reviewed | 87.7 | -2.41 | 30.1 | 2.12 | 34.4 | 4.16 | |
| 12/15/2017 18:28:25 | 20 | Not Reviewed | 88.4 | -1.66 | 30.5 | 3.46 | 34.5 | 4.58 | |
| 12/15/2017 18:05:16 | 20 | Not Reviewed | 88.8 | -1.21 | 30.8 | 4.25 | 34.7 | 5.03H | |
| 12/15/2017 15:52:32 | 20 | Not Reviewed | 89.0 | -1.04 | 30.9 | 4.67 | 34.7 | 5.29H | |
| 12/15/2017 15:34:54 | 20 | Not Reviewed | 89.0 | -1.05 | 30.8 | 4.57 | 34.6 | 4.91 | |
| 12/15/2017 15:03:15 | 20 | Not Reviewed | 88.9 | -1.09 | 30.8 | 4.51 | 34.6 | 4.91 | |
| 12/15/2017 14:38:46 | 20 | Not Reviewed | 88.5 | -1.56 | 30.5 | 3.48 | 34.6 | 4.77 | |
| 12/15/2017 14:25:27 | 20 | Not Reviewed | 88.5 | -1.61 | 30.4 | 3.12 | 34.5 | 4.42 | |
| 12/15/2017 14:08:12 | 20 | Not Reviewed | 88.5 | -1.59 | 30.4 | 3.14 | 34.5 | 4.47 | |
| 12/15/2017 12:24:45 | 20 | Not Reviewed | 88.5 | -1.60 | 30.4 | 3.12 | 34.5 | 4.49 | |
| 12/15/2017 10:05:08 | 20 | Not Reviewed | 88.5 | -1.58 | 30.4 | 3.12 | 34.5 | 4.49 | |
| 12/15/2017 06:45:28 | 20 | Not Reviewed | 88.2 | -1.91 | 30.2 | 2.43 | 34.5 | 4.53 | |
| 12/15/2017 00:34:36 | 20 | Not Reviewed | 87.9 | -2.25 | 30.1 | 2.03 | 34.5 | 4.57 | |
| 12/14/2017 21:06:22 | 20 | Not Reviewed | 87.9 | -2.19 | 30.1 | 1.91 | 34.3 | 4.07 | |
| 12/14/2017 19:56:01 | 20 | Not Reviewed | 87.9 | -2.19 | 30.1 | 1.88 | 34.2 | 3.74 | |
| 12/14/2017 19:26:44 | 20 | Not Reviewed | 88.1 | -2.00 | 30.2 | 2.49 | 34.3 | 3.94 | |
| 12/14/2017 18:47:55 | 20 | Not Reviewed | 88.4 | -1.63 | 30.3 | 2.82 | 34.3 | 3.90 | |
| Total Batches 20 | | | | | | | | | |
| | | Target Mean | 89.9 | | 29.5 | | 33.0 | | |
| | | Limit(%) | 5.00 | | 5.00 | | 5.00 | | |

11.

| | | |
|---------------------------------|---------------------------|---|
| Name: <input type="text"/> | DOB: 8/7/1929 | Location: VCMC / NT ICU 1 / ICU 06 / A / Ventura County M |
| <input type="text"/> | MRN: <input type="text"/> | Age: 88 years |
| Attending: <input type="text"/> | Admitted: 12/14/2017 5:3 | |
| FIN NBR: <input type="text"/> | Gender: Female | Discharged: |

| | | | | |
|---------|--|-------------------------------------|---|---|
| Results | Test site: <input type="text" value="VCMC Remisol"/> | <input type="button" value="Stop"/> | Procedure: <input type="text" value="All"/> | Accession: <input type="text" value="17-349-0023"/> |
|---------|--|-------------------------------------|---|---|

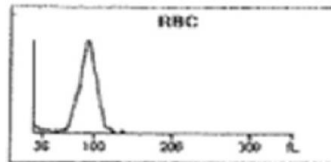
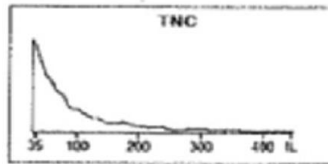
| Procedure | 1 | Result | Flags | Status | Reference Range | Service Resource... | Prev | Time |
|------------|-------------------------------------|---------|-------|------------|-----------------|---------------------|----------|---------|
| WBC | <input checked="" type="checkbox"/> | 13.0 | HD | Perform... | 4.8 - 10.8 | VCMC DxH 800 B | 7.6 | 10 days |
| RBC | <input checked="" type="checkbox"/> | 3.37 | L | Perform... | 4.20 - 5.40 | VCMC DxH 800 B | 3.65 L | 10 days |
| Hgb | <input checked="" type="checkbox"/> | 11.0 | L | Perform... | 12.0 - 16.0 | VCMC DxH 800 B | 12.1 | 10 days |
| Hct | <input checked="" type="checkbox"/> | 32.4 | L | Perform... | 37.0 - 47.0 | VCMC DxH 800 B | 35.1 L | 10 days |
| MCV | <input checked="" type="checkbox"/> | 96.1 | | Perform... | 81.0 - 99.0 | VCMC DxH 800 B | 96.4 | 10 days |
| MCH | <input checked="" type="checkbox"/> | 32.6 | | Perform... | 24.3 - 33.2 | VCMC DxH 800 B | 33.1 | 10 days |
| MCHC | <input checked="" type="checkbox"/> | 33.9 | | Perform... | 32.5 - 35.8 | VCMC DxH 800 B | 34.3 | 10 days |
| RDW | <input checked="" type="checkbox"/> | 14.4 | | Perform... | 12.3 - 17.7 | VCMC DxH 800 B | 14.9 | 10 days |
| Platelet | <input checked="" type="checkbox"/> | 182 | | Perform... | 130 - 400 | VCMC DxH 800 B | 162 | 10 days |
| MPV | <input checked="" type="checkbox"/> | 9.0 | | Perform... | 7.4 - 10.4 | VCMC DxH 800 B | 9.0 | 10 days |
| VALID... | <input checked="" type="checkbox"/> | AUTOVAL | | Perform... | | VCMC DxH 800 B | AUTOV... | 10 days |

15.

Specimen ID: [REDACTED] Panels: BFC
 Specimen Type: Synovial Flag Set: Synov - Adult Priority:
 Physician: Diagnosis:
 Name: Unknown Patient ID:
 Gender: Unknown Age:
 Location: Run w/ Hyaluronidase DOB:
 Comment:

| Panels | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|--------|----------------|----------|----------|------------|--------|------------|
| BFC | (S) 11/30/2017 | 14:55:04 | 99999 | DXH800 B | heme | |

| Test | Result | Flags | Units |
|------|--------|-------|-------------------------|
| TNC | 1,389 | R P | (cells)/mm ³ |
| RBC | 15,099 | R P | (cells)/mm ³ |



Suspect System
 Bubbles
 Cellular Inter

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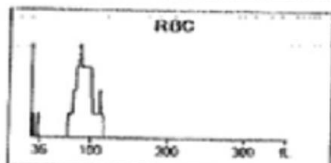
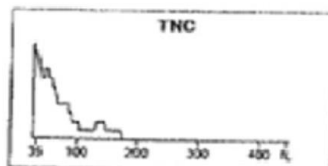
VENTURA COUNTY MED CTR.
 3291 LOMA VISTA ROAD

Patient Lab Report
 BRAD S. ADLER, MD.

Specimen ID: [REDACTED] DIL 1 TO 6 Panels: BFC
 Specimen Type: Synovial Flag Set: Synov - Adult Priority:
 Physician: Diluted w/ diluent Diagnosis:
 Name: Unknown Patient ID:
 Gender: Unknown Age:
 Location: 106 DOB:
 Comment:

| Panels | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|--------|----------------|----------|----------|------------|--------|------------|
| BFC | (S) 11/30/2017 | 15:03:51 | 99999 | DXH800 B | heme | |

| Test | Result | Flags | Units |
|------|--------|-------|-------------------------|
| TNC | 197 | R | (cells)/mm ³ |
| RBC | 2,407 | R | (cells)/mm ³ |



Suspect System
 Cellular Inter

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1182
 TNC = 197 x 6 = 1182
 RBC = 2407 x 6 = 14,442

16.

Name: [REDACTED]
 Gender: Female
 Location: VCMC Lab
 Comment:

Patient ID: [REDACTED]
 Age: 22 Years
 DOB: 05/02/1995

| Panels | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|--------|----------------|----------|----------|------------|--------|------------|
| C | (C) 12/15/2017 | 19:36:31 | 00997 | DXH800 B | SYSTEM | |

| Test | Result | Flags | Units | | Suspect System |
|------|--------|-------|---------------------|--|-----------------|
| WBC | 10.1 | | 10 ³ /uL | | Platelet Clumps |
| UWBC | 10.1 | | 10 ³ /uL | | |
| RBC | 4.77 | | 10 ⁶ /uL | | |
| HGB | 15.9 | | g/dL | | |
| HCT | 45.3 | | % | | |
| MCV | 95.1 | | fL | | |
| MCH | 33.3 | H | pg | | |
| MCHC | 35.1 | | g/dL | | |
| RDW | 12.4 | | % | | |
| PLT | 113 | R L | 10 ³ /uL | | |
| MPV | 10.3 | R | fL | | |

| CD | Date | Time | Tube Pos | Instrument | Opr ID | Exceptions |
|----|----------------|----------|----------|------------|--------|--------------------|
| | (C) 12/15/2017 | 20:02:34 | U0941 | DXH800 B | SYSTEM | Default Test Order |

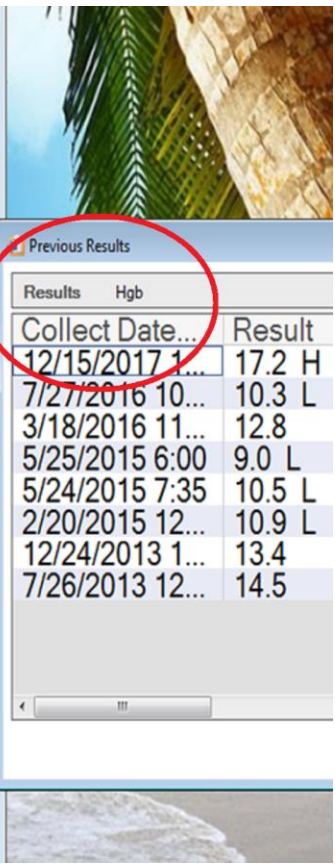
| Test | Result | Flags | Units | | Suspect System |
|------|--------|-------|---------------------|--|-----------------|
| WBC | 8.7 | | 10 ³ /uL | | Platelet Clumps |
| UWBC | 8.7 | | 10 ³ /uL | | |
| RBC | 4.81 | | 10 ⁶ /uL | | |
| HGB | 15.9 | | g/dL | | |
| HCT | 45.2 | | % | | |
| MCV | 94.0 | | fL | | |
| MCH | 33.0 | | pg | | |
| MCHC | 35.1 | | g/dL | | |
| RDW | 12.4 | | % | | |
| PLT | 160 | R | 10 ³ /uL | | |
| MPV | 10.4 | R | fL | | |
| NE | 55.39 | | % | | |
| LY | 34.86 | | % | | |
| MO | 7.03 | | % | | |
| EO | 2.50 | | % | | |
| BA | 0.22 | | % | | |
| NE# | 4.842 | | 10 ³ /uL | | |
| IY# | 3.047 | | 10 ³ /uL | | |

20.

Name: _____ DOB: 1/30/1984 Location: ICU / Ventura Count...
 Date of Specimen: 12/16/2016 Age: 33 years Attending: _____ Admitted: 12/15/2017 ...
 FIN NBR: _____ Gender: Female Discharged: _____

Results Test site: VCMC Remisol Stop Procedure: All
 Accession: _____ Alerts:

| Procedure | 1 | Result | F... | Status | Referenc... | Service Resource... | Prev | Time |
|---------------|---|---------|------|------------|-------------|---------------------|---------|---------|
| Neutro Auto | ✓ | 89.4 | H | Perform... | 47.0 - 79.0 | VCMC DxH 800 B | 80.0 H | 4 hours |
| Lymph Auto | ✓ | 5.6 | L | Perform... | 12.5 - 40.0 | VCMC DxH 800 B | 12.5 | 4 hours |
| Mono Auto | ✓ | 3.8 | | Perform... | 2.0 - 13.0 | VCMC DxH 800 B | 6.8 | 4 hours |
| Eos Auto | ✓ | 0.5 | | Perform... | 0.0 - 5.0 | VCMC DxH 800 B | 0.6 | 4 hours |
| Basophil A... | ✓ | 0.7 | | Perform... | 0.0 - 2.0 | VCMC DxH 800 B | 0.2 | 4 hours |
| Neutro Ab... | ✓ | 6.40 | | Perform... | 1.10 - 7.25 | VCMC DxH 800 B | 8.90 H | 4 hours |
| Lymph Ab... | ✓ | 0.4 | L | Perform... | 1.0 - 4.0 | VCMC DxH 800 B | 1.4 | 4 hours |
| Mono Abs... | ✓ | 0.3 | | Perform... | 0.2 - 1.0 | VCMC DxH 800 B | 0.8 | 4 hours |
| Eosin Abs... | ✓ | 0.0 | | Perform... | 0.0 - 0.2 | VCMC DxH 800 B | 0.1 | 4 hours |
| Baso Abso... | ✓ | 0.0 | | Perform... | 0.0 - 0.2 | VCMC DxH 800 B | 0.0 | 4 hours |
| NRBC DX... | ✓ | 0.00 | | Perform... | 0.00 - 1.00 | VCMC DxH 800 B | 0.10 | 4 hours |
| VALIDATEB | ✓ | AUTOVAL | | Perform... | | VCMC DxH 800 B | AUTO... | 4 hours |
| WBC | ✓ | 7.2 | D | Perform... | 4.8 - 10.8 | VCMC DxH 800 B | 11.1 H | 4 hours |
| RBC | ✓ | 4.54 | | Perform... | 4.20 - 5.40 | VCMC DxH 800 B | 5.65 H | 4 hours |
| Hgb | ✓ | 13.9 | D | Perform... | 12.0 - 16.0 | VCMC DxH 800 B | 17.2 H | 4 hours |
| Hct | ✓ | 40.5 | D | Perform... | 37.0 - 47.0 | VCMC DxH 800 B | 50.6 H | 4 hours |
| MCV | ✓ | 89.1 | | Perform... | 81.0 - 99.0 | VCMC DxH 800 B | 89.5 | 4 hours |
| MCH | ✓ | 30.7 | | Perform... | 24.3 - 33.2 | VCMC DxH 800 B | 30.5 | 4 hours |
| MCHC | ✓ | 34.4 | | Perform... | 32.5 - 35.8 | VCMC DxH 800 B | 34.0 | 4 hours |
| RDW | ✓ | 12.7 | | Perform... | 12.3 - 17.7 | VCMC DxH 800 B | 13.1 | 4 hours |
| Platelet | ✓ | 248 | | Perform... | 130 - 400 | VCMC DxH 800 B | 363 | 4 hours |
| MPV | ✓ | 8.1 | | Perform... | 7.4 - 10.4 | VCMC DxH 800 B | 8.2 | 4 hours |
| Differential? | ✓ | Auto | | Pending | | | Auto | 4 hours |



Previous Results

| Results | Hgb |
|-----------------|--------|
| Collect Date... | Result |
| 12/15/2017 1... | 17.2 H |
| 7/27/2016 10... | 10.3 L |
| 3/18/2016 11... | 12.8 |
| 5/25/2015 6:00 | 9.0 L |
| 5/24/2015 7:35 | 10.5 L |
| 2/20/2015 12... | 10.9 L |
| 12/24/2013 1... | 13.4 |
| 7/26/2013 12... | 14.5 |