

## HPC

Snotty for last 2-3 days, coughing  
and breathing faster  
Struggling to breast feed, falls off  
the breast after a few sucks  
Last 12 hours more quiet and  
drowsy  
Cousins recently had coughs and  
colds

## PMH

Nil of note



## BIRTH Hx

Term

Born in good condition

PROM for 72 hours

Discharged by day 3

Exclusively breast fed

## FAMILY + SOCIAL Hx

1st child

Consanguineous parents

Pakistani origin

Not known to social care

## IMMUNISATION Hx

BCG at birth

Not had 8 week imms yet



| Date  |                             |      |  |  |
|---|-----------------------------|------|--|--|
| Time  |                             |      |  |  |
| AVPU<br>Score<br>AS if asleep                   | A                           |      |  |  |
|   | V                           |      |  |  |
|   | P                           |      |  |  |
|   | U                           |      |  |  |
| Temp<br>°C                                      | ≥40                         |      |  |  |
|   | 39                          |      |  |  |
|   | 38                          | ■    |  |  |
|   | 37                          |      |  |  |
|   | 36                          |      |  |  |
|   | ≤35                         | 37.8 |  |  |
| Pulse &<br>Blood<br>Pressure                    | 190                         |      |  |  |
|   | 180                         |      |  |  |
|   | 170                         |      |  |  |
|   | 160                         | ■    |  |  |
|   | 150                         |      |  |  |
|   | 140                         |      |  |  |
|   | 130                         |      |  |  |
|   | 120                         |      |  |  |
|   | 110                         |      |  |  |
|   | 100                         |      |  |  |
|   | 90                          | ∩    |  |  |
|   | 80                          | ∩    |  |  |
| 70  |                             |      |  |  |
| 60  |                             |      |  |  |
| 50  |                             |      |  |  |
| 40  |                             |      |  |  |
| 30  |                             |      |  |  |
| 20  |                             |      |  |  |
| 10  |                             |      |  |  |
| Actual<br>HR                                    |                             | 160  |  |  |
| Respiratory<br>Rate                             | >80                         | ■    |  |  |
|   | 70                          |      |  |  |
|   | 60                          |      |  |  |
|   | 50                          |      |  |  |
| 40  |                             |      |  |  |
| 30  |                             |      |  |  |
| 20  |                             |      |  |  |
| 10  |                             |      |  |  |
| Actual<br>RR                                    |                             | 80   |  |  |
| Central<br>Capillary<br>Refill Time             | >3                          | 4    |  |  |
|   | 2-3                         |      |  |  |
|   | ≤2                          |      |  |  |
| Oxygen<br>Saturation<br>Target SpO <sub>2</sub> | 98                          |      |  |  |
|   | 94                          | ■    |  |  |
|   | 90                          |      |  |  |
|   | 86                          |      |  |  |
|   | ≤82                         | 94   |  |  |
| Oxygen<br>Therapy                               | Route                       |      |  |  |
|   | Inspired<br>O <sub>2</sub>  |      |  |  |
|   | Flow Rate                   |      |  |  |
| [Add 1, if<br>on oxygen]                        |                             |      |  |  |
| Pain &<br>Sedation<br>Scores                    | Pain (0-3)                  |      |  |  |
|   | Sedation<br>Sleeping<br>(Z) |      |  |  |
| Total CEWS Score                                |                             | 8    |  |  |
| Signed  |                             |      |  |  |

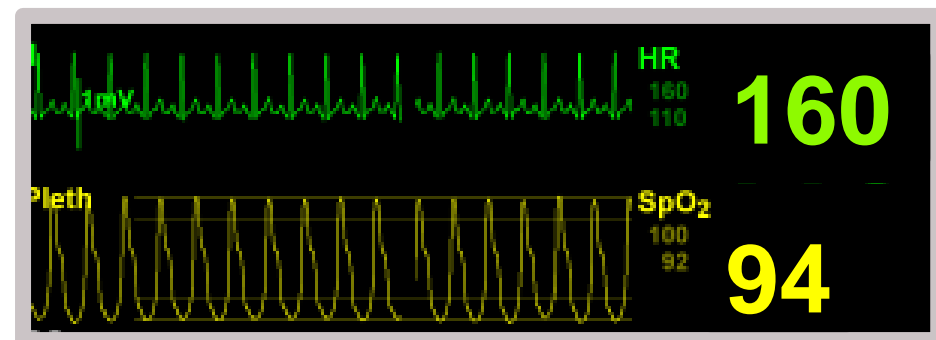
A : Self maintained

B : Mild effort of breathing, tracheal tug, IC,  
SC recession, B/I wheeze and crackles

C : HS 1+2+ nil added, femorals palpable,  
cool peripheries

D : AVPUU

E : No rash, abdomen soft, **5cm hepatomegaly**, BS present



# Management so far

- **2ml/kg 10% Glucose:** bolus given  
Blood sugar now 2.8
- **10% Glucose:** infusion running (100ml/kg/day)
- **10ml/kg 0.9% Saline:** 2 x fluid bolus given  
with good clinical response  
Now well perfused, CRT <2
- Femorals strong and equally palpable
- No heart murmur and normal ECG
- **IV cefotaxime:** one dose give



# You discuss with your oncall consultant

You make a plan for:

- **O<sub>2</sub>** to maintain sats >92%
- **IV 10% glucose** with hourly blood glucose monitoring
- **IV cefotaxime**
- **Repeat blood gas** in 30 minutes and re-discuss
- You hand this over to your night colleague



# The next morning...

Handover:

*"Mohammed has remained stable. He is SVIA, observations and blood sugars have remained stable on IV fluids with 10% glucose, blood gas has normalised.*

*He was alert and rooting this morning therefore I have stopped his IV fluids and let mum put him to the breast."*



# Blood results

- Hb 160
- Plts 570
- WCC 8.4
- Neuts 0.6
- Na 149
- K 4.6
- Urea 3.2
- Creatinine 60
- CRP 19
- Urate 300
- Ammonia 45
- Triglycerides 8.3



|  |                                       | Date |      |      |      |      |      |      |
|--|---------------------------------------|------|------|------|------|------|------|------|
|  |                                       | Time |      |      |      |      |      |      |
|  |                                       | 2020 | 2100 | 2200 | 2400 | 0300 | 0600 | 0900 |
| AVPU<br>Score<br>AS if asleep  | A                                     |      |      |      |      |      |      |      |
|  | V                                     |      |      |      |      |      |      |      |
|  | P                                     |      |      |      |      |      |      |      |
|  | U                                     |      |      |      |      |      |      |      |
| Temp<br>°C   | ≥40                                   |      |      |      |      |      |      |      |
|  | 39                                    |      |      |      |      |      |      |      |
|  | 38                                    |      |      |      |      |      |      |      |
|  | 37                                    |      |      |      |      |      |      |      |
|  | ≤35                                   |      |      |      |      |      |      |      |
|  |                                       | 37.8 | 37   |      |      | 37.2 |      |      |
| Pulse &<br>Blood<br>Pressure   | 190                                   |      |      |      |      |      |      |      |
|  | 180                                   |      |      |      |      |      |      |      |
|  | 170                                   |      |      |      |      |      |      |      |
|  | 160                                   |      |      |      |      |      |      |      |
|  | 150                                   |      |      |      |      |      |      |      |
|  | 140                                   |      |      |      |      |      |      |      |
|  | 130                                   |      |      |      |      |      |      |      |
|  | 120                                   |      |      |      |      |      |      |      |
|  | 110                                   |      |      |      |      |      |      |      |
|  | 100                                   |      |      |      |      |      |      |      |
| Score pulse<br>See table<br>overleaf for<br>BP scoring<br>Score BP or<br>CRT but not<br>both | 90                                    |      |      |      |      |      |      |      |
|  | 80                                    |      |      |      |      |      |      |      |
|  | 70                                    |      |      |      |      |      |      |      |
|  | 60                                    |      |      |      |      |      |      |      |
|  | 50                                    |      |      |      |      |      |      |      |
|  | 40                                    |      |      |      |      |      |      |      |
|  | 30                                    |      |      |      |      |      |      |      |
|  | 20                                    |      |      |      |      |      |      |      |
|  | 10                                    |      |      |      |      |      |      |      |
|  | Actual HR                             |      | 160  | 152  | 140  | 130  | 132  | 137  |
| Respiratory<br>Rate  | >80                                   |      |      |      |      |      |      |      |
|  | 70                                    |      |      |      |      |      |      |      |
|  | 60                                    |      |      |      |      |      |      |      |
|  | 50                                    |      |      |      |      |      |      |      |
|  | 10                                    |      |      |      |      |      |      |      |
| Actual RR  |                                       | 80   | 70   | 64   | 58   | 60   | 62   | 58   |
| Central<br>Capillary<br>Refill Time<br>Score CRT or BP<br>but not both                       | >3                                    | 4    |      |      |      |      |      |      |
|  | 2-3                                   |      |      |      |      |      |      |      |
|  | ≤2                                    |      | <2   | <2   | <2   | <2   | <2   | <2   |
| Oxygen<br>Saturation<br>Target SpO2  | 98                                    |      |      |      |      |      |      |      |
|  | 94                                    |      |      |      |      |      |      |      |
|  | 90                                    |      |      |      |      |      |      |      |
|  | 86                                    |      |      |      |      |      |      |      |
|  | ≤82                                   |      |      |      |      |      |      |      |
|  |                                       | 94   | 94   | 93   | 94   | 95   | 94   | 95   |
| Oxygen<br>Therapy  | Route                                 | Air  | Air  | Air  | Air  | Air  | Air  | Air  |
|  | Inspired<br>O <sub>2</sub>            |      |      |      |      |      |      |      |
|  | [Add 1, if<br>on oxygen]<br>Flow Rate |      |      |      |      |      |      |      |
| Pain &<br>Sedation<br>Scores   | Pain (0-3)                            |      |      |      |      |      |      |      |
|  | Sedation                              |      |      |      |      |      |      |      |
|  | Sleeping<br>(Z)                       |      |      |      |      |      |      |      |
| Total CEWS Score   |                                       | 8    | 4    | 3    | 2    | 2    | 2    | 2    |
| Signed   |                                       |      |      |      |      |      |      |      |

|                | 20:35 | 21:10 | 23:45 | 04:00 |
|----------------|-------|-------|-------|-------|
| <b>pH</b>      | 7.09  | 7.22  | 7.30  | 7.35  |
| <b>CO2</b>     | 5.5   | 6.5   | 6.1   | 5.8   |
| <b>O2</b>      | 6.2   | 8.5   | 8.3   | 8.1   |
| <b>HCO3</b>    | 6     | 12    | 17    | 21    |
| <b>BE</b>      | -16   | -10   | -7    | -2    |
| <b>Glu</b>     | 0.6   | 2.8   | 3.2   | 3.8   |
| <b>Lactate</b> | 19.3  | 10    | 8     | 2.2   |
| <b>Ketones</b> | 5.5   | 4.2   | 3.7   | 2.1   |

Good urine output overnight





# Patient progress

