

# **INTRAVITREAL DRUGS IN ENDOPHTHALMITIS**

**BY**

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## **INTRAVITREAL DRUGS IN POST-OPRATIVE BACTERIAL ENDOPHTHALMITIS**

**VANCOMYCIN**

**(1mg in 0.1ml)**

**500 mg powder**



|           |                |
|-----------|----------------|
| Add 10 ml | 500mg in 10 ml |
|           | 50mg in 1.0 ml |
|           | 10mg in 0.2ml  |



|             |          |
|-------------|----------|
| Take 0.2 ml | Has 10mg |
|-------------|----------|



|               |              |
|---------------|--------------|
| Make it 1.0ml | 10mg in 1 ml |
|---------------|--------------|



|             |              |
|-------------|--------------|
| Take 0.1 ml | 1mg in 0.1ml |
|-------------|--------------|

## **CEFTAZIDIME/ CEFAZOLIN**

**(2.25 mg in 0.1 ml)**

**500 mg powder**



|            |                 |
|------------|-----------------|
| Add 2.0 ml | 500mg in 2 ml   |
|            | 250mg in 1.0 ml |



|              |                    |
|--------------|--------------------|
| Take 0.09 ml | 22.5 mg in 0.09 ml |
|--------------|--------------------|



|                   |                   |
|-------------------|-------------------|
| Make it to 1.0 ml | 22.5 mg in 1.0 ml |
| Take 0.1 ml       | 2.25 mg in 0.1ml  |

**AMIKACIN**

**(125 µg in 0.1 ml)**



**100mg in 2ml vial 50mg in 1.0ml / 10mg in 0.2**



|             |               |
|-------------|---------------|
| Take 0.1 ml | 5 mg / 0.1 ml |
|-------------|---------------|



|            |                |
|------------|----------------|
| Add 0.3 ml | 5 mg in 0.4 ml |
|------------|----------------|



|                             |                  |
|-----------------------------|------------------|
| Take 0.1 ml + add 0.9<br>ml | 1.25 mg / 1.0 ml |
|-----------------------------|------------------|



|             |        |
|-------------|--------|
| Take 0.1 ml | 125 µg |
|-------------|--------|

**IN NON –RESPONDING CASES: Alternative Therapy**

**MOXIFLOXACIN**

**Intravitral Dose 200 µg**

**PREPARATION**



Take 0.05 ml of 0.5 Moxifloxacin (preservative free)



Directly taken from topical preparation under sterile conditions

## **IMIPENEM**

### **Intravitral Dose 50-100 µg**

#### **PREPARATION**



Dilute 250 mg vial with 100 ml of distilled water (2.5mg/ml)



(0.25mg/0.1ml)



Take 0.2 ml (0.5mg)



Dilute with 0.3ml sterile water (0.5mg / 0.5ml)



Inject 0.05ml (50 µg)

## **PIPERACILLIN / TAZOBACTAM**

### **Intravitral Dose 225 µg**

#### **PREPARATION**



Add 10 ml of distilled water to 2.25g vial and mix well (225mg/ml)



Take 0.1 ml (22.5mg/ml) solution and



Add 0.9 distilled water and mix well



Discard 0.9 ml of solution



Add 0.9 ml of distilled water and mix well (2.25mg /ml)



Repeated the process (225 µg /0.1ml)

## **CARBENICILLIN**

### **Intravitral Dose 2000 $\mu$ g**

#### **PREPARATION**



Add 5 ml of distilled water to 1g vial and mix well (200mg/ml)



Take 0.1 ml solution Add 0.9 distilled water and mix well (2200mg/ml)



Inject 0.05ml (2000  $\mu$ g)

## **TICARCILLIN + CLAVULANATE**

### **Intravitral Dose 3000 $\mu$ g**

#### **PREPARATION**



Add 9.7 ml of distilled water to 3.1g vial and mix well (300mg/ml)



Take 0.1 ml solution Add 0.9 distilled water and mix well (30mg/ml)



Inject 0.1ml (3000  $\mu$ g)

## **COLISTIN**

**Intravitral Dose 0.08 mg /0.1ml(1000 IU/0.1ml)**

### **PREPARATION**



Prepared from parenteral colistin (Xylistin) 1million IU/80mg



Add 10 ml distilled water 8 mg / ml (0.8%)



0.1 ml of above solution added to 0.9 ml of distilled water



(0.8 mg / ml or10000 IU/ ml)



Use 0.1 ml of this preparation (0.08 mg / 0.1ml or 1000 IU / 0.1)

## **ANTI- FUNGAL DRUGS IN ENDOPHTHALMITIS**

### **AMPHOTERICIN B**

**(5 $\mu$ g in 0.1 ml)**



**50 mg powder**

|                        |                                  |
|------------------------|----------------------------------|
| Add 10 ml 5 % dextrose | 50mg in 10 ml<br>0.5mg in 0.1 ml |
|------------------------|----------------------------------|



|             |       |
|-------------|-------|
| Take 0.1 ml | 0.5mg |
|-------------|-------|



|                         |                                  |
|-------------------------|----------------------------------|
| Add 9.9 ml 5 % dextrose | 0.5 mg /10 ml<br>0.05mg / 1.0 ml |
|-------------------------|----------------------------------|



|             |         |
|-------------|---------|
| Take 0.1 ml | 0.005mg |
|-------------|---------|

## **VORICONAZOLE**

**(50-100 µg in 0.1 ml)**



**200 mg powder**

|                                 |                 |
|---------------------------------|-----------------|
| Add 19 ml of<br>distilled water | 200 mg in 20 ml |
|                                 | 10 mg in 1.0 ml |



|             |  |
|-------------|--|
| Take 0.1 ml |  |
|-------------|--|



|                            |                    |
|----------------------------|--------------------|
| Add 9.9 ml 5 %<br>dextrose | 10 mg / in 10 ml   |
|                            | 1.0 mg / in 1.0 ml |



|                      |           |
|----------------------|-----------|
| Take 0.05 ml / 0.1ml | 50-100 µg |
|----------------------|-----------|

**DEXAMETHASONE**

**(0.4 mg in 0.1 ml)**



**8mg in 2 ml vial / 4 mg in 1.0 ml**



|                      |        |
|----------------------|--------|
| Take 0.1 ml directly | 0.4 mg |
|----------------------|--------|