

TOCILIZUMAB IV Infusion PIMS-TS/ COVID Pneumonia

critical care areas only

Presentation

Tocilizumab 20mg in 1mL concentrate 10ml and 20ml vials

Prescribing

Following PIM-TS MDT/ only.

<u>Weight</u>	
<u>Less than 30kg</u>	<u>12mg/kg/dose</u>
<u>30kg or above</u>	<u>8mg/kg/dose (maximum 800mg)</u>

Child overweight/obese (> 95th centile for age)

If a patients weight is deemed inappropriate to dose with use the following table:

Weight	Dose
>40 and ≤65 kg	400 mg
>65 and ≤90 kg	600 mg
>90 kg	800 mg

Storage

Store in refrigerator. Protect from light

Preparation/ Dilution

For patient less than 30kg

1. Draw up the required volume of tocilizumab into a 50mL syringe and make up to 50mL using sodium chloride 0.9%. Label as per Trust policy

Patient 30kg and above

1. Draw the required amount of tocilizumab into a 50mL syringe.
2. Remove the same volume from the 100mL bag of sodium chloride 0.9% before replacing with tocilizumab. Gently invert bag and label as per Trust policy.

Route of Administration

Central Preferred (only give peripherally if central access not available)

Rate of Administration

Over 60 minutes.

Stability

Use immediately – assign 4 hour expiry to IV additive label.

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Flushes

Sodium chloride 0.9%

Common Compatibilities at Terminal Y-site

Infuse alone.

Monitoring/ Other comments

Monitor for emergency infusion related side effects such as hypersensitivity reactions including anaphylaxis, flushing, fever, chills, rash, pruritus, urticaria, hypertension. Stop infusion and contact medical team/PACE immediately if there deterioration in blood pressure, respiratory rate or any signs of an anaphylactoid reaction.

Full cardiac monitoring, temperature and respiratory rate must be undertaken at 15, 30, 60 and 120 minutes following starting infusion.

Extravasation Risk

Extreme of pH	Hyperosmolar	Vasoactive	Vesicant	Irritant
No pH 6-7	No	No	Unknown	Unknown

Excipients (polysorbate) are known to cause tissue damage on extravasation.

Pump mode

ml/hour- use volume to be infused over time

Calculation example

30kg child with central access requires tocilizumab following MDT recommendation.

Dose = 8mg x 30kg

= 240mg

Prescribe on once only section of chart as 240mg Tocilizumab in 100mL

Prepare as follows:

Withdraw 12mL from the 100ml Sodium Chloride 0.9% infusion bag and discard. Then draw up 12mL of Tocilizumab and add this to the infusion bag and label as per Trust Policy. Select volume to be given over time mode on pump to give a rate of 100mL/hour

To check infusion rate:

Pump rate in mL/hr = $\frac{100\text{mL}}{1\text{hr}} = 100\text{mL/hour}$