



Appendix 8

Nebulised Amikacin (using the intravenous preparation as the inhaled drug)

How do I take?

- You will be taught how to administer amikacin solution via the nebuliser provided by your hospital
- Amikacin is suitable for nebulisation using a jet nebuliser and compressors. A filter will be needed. It is also compatible for use via a vibrating mesh nebuliser like the E-Flow nebuliser machine, but the time taken might be slower. It is not compatible for use with the I-Neb nebuliser machine
- The prescribed dose will be drawn up, usually diluted with sodium chloride 0.9% solution and added to your nebuliser for use
- Amikacin should not be used in people diagnosed with Myasthenia Gravis

Will there be any interactions with any of my other medicines?

There are currently no clinical drug interaction studies done with nebulised amikacin. Your NTM team will however still check all prescribed medications you take and any over the counter medications so as to be aware of any drugs that can potentially increase the risk of amikacin toxicity.

Is there anything I need to look out for?

- Amikacin may cause side effects. You should make your NTM team aware if you experience any of the following side effects:
 - Bronchoconstriction (chest tightness)
 - Cough
 - Sore throat and mouth
 - Hoarseness and/or altered voice
 - Tinnitus (ringing in your ears)
 - Hearing loss
 - Coughing up of fresh blood (haemoptysis)
- Inform your NTM team if you know you have a mitochondrial genetic mutation or are aware of any history of deafness on your mother's side, including deafness in mother, mother's siblings or mother's parents
- Please see patient information insert provided with medication for full lists of side effects



How will I be monitored?

- Before starting treatment, a test dose will be given to check that you can tolerate the nebulised amikacin. You may be asked to use a reliever medicine such as salbutamol before using nebulised amikacin to prevent bronchoconstriction (chest tightness)
- Your NTM team may also check your hearing (audiometry) at the beginning of treatment and intermittently during treatment depending on any risks of hearing changes and symptoms. In addition, if you experience any hearing changes including tinnitus (ringing in the ear) or if you notice you have needed to turn the volume up on your radio or TV for no obvious reason then make your NTM team aware
- Your NTM team will also check your kidney function via blood tests regularly throughout treatment