

# A guide to your child's Ankle Foot Orthosis (AFO)



## What is an Ankle Foot Orthosis (AFO)?

An Ankle Foot Orthosis or AFO is a custom brace worn on the lower leg. It is designed to control the range of motion in the foot and ankle, and maintain them in an optimum position for standing and walking. Some AFOs have a joint/hinge at the ankle, whilst others are fixed in one position, and they may be worn on one foot or both feet.

The AFO will be matched to your child's specific needs – as each person is unique, so is their response to treatment.

## What are AFOs prescribed for?

AFOs are prescribed for a number of reasons, including:

- To make walking easier
- To keep your child's foot and ankle in a better position
- To provide support to weakened muscles
- To reduce the risk of falls
- To reduce pain

## What shoes or clothes can be worn with an AFO?

The AFO should not come into direct contact with skin, so your child should wear cotton socks or tights beneath the device. Ensure they are pulled up to avoid any wrinkles.

Your child must wear the correct footwear in order for the AFO to work properly. The shoes need to be big enough to fit the AFO inside, but they can be ordinary high-street shoes. When deciding your child's footwear, consider:

- Lace or Velcro® fastenings are preferred: the lower they open the better.
- A removable sole is useful to make room for the AFO
- Slip-on and open-heeled shoes are not appropriate
- Adequate depth and width is required

Take your child's AFO with you when buying the shoes so you can try them on together. It is important that shoes are worn whilst wearing AFOs. Do not allow your child to wear the AFO without shoes as it can be slippery.

## Putting on the AFO

1. Unfasten all straps on the AFO.
2. Ensure your child is seated, with their hip and knee bent at a 90 degree angle.
3. Pull up their socks and make sure there are no creases in them.
4. Turn the foot slightly inwards then bring the foot up at a right angle towards the knee.
5. Place your child's heel at the back of the AFO, and then fasten the ankle strap. It should be firm enough to secure the foot, but not too tight. Check that the heel is in place by lifting the toes up – there should be no space between the heel and the AFO.
6. Fasten the top strap. Again, this should be snug but not too tight.
7. Put on the shoe.

## How long should the AFO be worn for?

It takes a while to get used to wearing an AFO, and it may feel uncomfortable to start with. Build up wear time over a few weeks, until your child can wear it as required:

Day 1: 30-60 minutes

Day 2: 1-2 hours

Day 3: 2-4 hours

Day 4-7: 4-6 hours

Week 2: 6+ hours or then as required

The length of time your child should wear the AFO for will vary. Some users wear them constantly, others only for a few hours. Your orthotist will give you recommendations tailored for your child.

Steps, stairs and slopes can feel very different when you are using an AFO. Take extra care and use handrails where possible.



## Skin care

- You should check the skin around the ankle and foot (including the sole of the foot), every time you take off your child's AFO, especially over the bony areas and around the edges of the AFO.
- Don't worry if you see red marks – these are normal and should disappear within 30 minutes following removal of the AFO. If they do not disappear in this timescale please stop wearing the AFO and contact your Orthotic Department.
- If you notice any blisters or sores your child should stop using the AFO and contact your Orthotic Department for advice as it may need adjusting.
- Be particularly careful with visual checks if your child suffers from poor sensation.

## Care of the AFO

It is important that the AFO is kept clean and in good working order.

- Use a damp cloth to wipe over the AFO. Straps or padding might discolour with time but this is normal and does not affect the effectiveness of the device.
- Keep the AFO away from direct heat, e.g radiators. You can dry with a towel after cleaning, or else leave to dry naturally.
- Check your child's AFO daily for signs of damage or cracks in the material. If found, stop using the device immediately and contact your orthotist.
- If the AFO has ankle joints, check daily that all screws and fastenings are secure. When handling the device, be careful not to trap fingers in the joint.
- Ensure all straps are working properly. If they have worn down, or break, contact your orthotist straight away.
- Do not try to adjust the AFO yourself, under any circumstances.