The 8 phases of walking – and what the C-Brace® does differently:

**Human gait**

1. Initial contact
2. Load response
3. Mid-stance phase
4. Terminal stance phase
5. Pre-swing phase
6. Initial swing phase
7. Mid-swing phase
8. Terminal swing phase

**Walking with the C-Brace®**

1. Stance phase flexion damping: controlled stance phase damping supports the knee extending musculature upon heel strike
2. Stance phase extension damping: knee extension damping in the stance phase for a natural, smooth movement of the knee joint
3. Maximum load: definition of the safe switching point to trigger the swing phase
4. Swing phase initial flexion damping: switching to minimum resistance for optimum initiation of the swing phase
5. Swing phase knee angle threshold/swing phase dynamic factor: controls the end of swing phase flexion for an optimised gait pattern
6. Extension resistance: switching to minimum resistance during swing phase extension
7. Swing phase extension damping: final swing phase extension damping for a soft braking movement at changing walking speeds

The individual adaptation of the C-Brace® by you as the orthotist is of particular importance in order to provide optimum support for the user in each phase of the gait cycle.