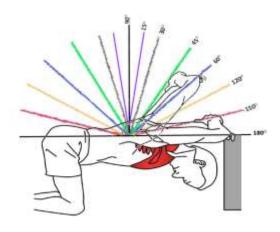
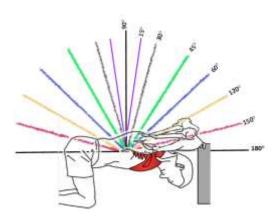
Optimal and minimum ranges of movement in shoulder and hip joints for an Artistic Gymnast:

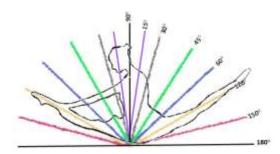
Shoulder: Optimal 45°



Minimum 120°



Hip: Optimal 120°



Minimum 180°

