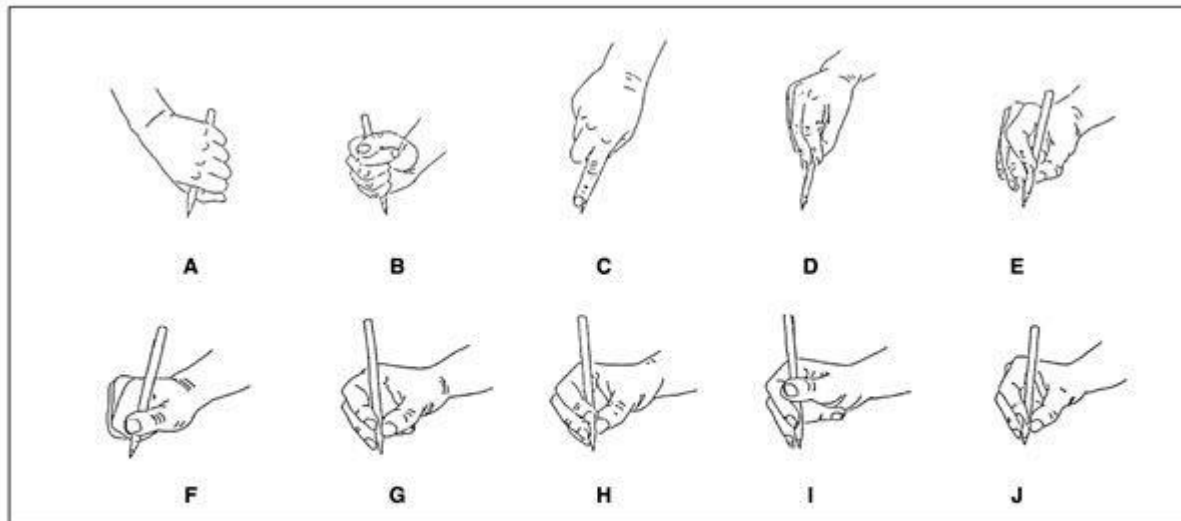


Development Progression of Pencil Grip



A = radial cross palmar grasp; B = palmar supinate grasp; C = digital pronate grasp, only index finger extended; D = brush grasp, E = grasp with extended fingers; F = cross thumb grasp; G = static tripod grasp; H = four fingers grasp; I = lateral tripod grasp; J = dynamic tripod grasp.

Figure 2 - Pencil grip postures¹⁶

Primitive grip

- A. **Radial cross palmar grasp**
Pencil positioned across palm projecting radially, held with fist, forearm fully pronated, full arm movement.
- B. **Palmar supinate grasp**
Pencil positioned across palm projecting ulnarly, held with fist, wrist slightly flexed and supinated away from midposition, full arm movement.
- C. **Digital pronate grasp, only index finger extended**
Pencil held in palmar grasp with index finger extended along pencil toward tip, arm not supported on table, full arm movement.
- D. **Brush grasp**
Pencil held with fingers, eraser end of pencil positioned against palm, hand pronated with wrist movement present, whole arm movement, forearm positioned in air.
- E. **Grasp with extended fingers**
Pencil held with fingers, wrist straight and pronated with slight ulnar deviation, forearm moves as a unit.

Transitional grip

- F. **Cross thumb grasp**
Fingers fisted loosely into palm, pencil held against index finger with thumb crossed over pencil toward index finger, finger and wrist movement, forearm positioned on table.
- G. **Static tripod grasp**
Pencil stabilised against radial side of third digit by thumb pulp with index pulp on top of shaft, thumb stabilised in full opposition, wrist slightly extended and hand moving as a unit, pencil resting in open web space, forearm resting on table.
- H. **Four fingers grasp**
Pencil held with four fingers in opposition, wrist and finger movement, forearm positioned on table.

Mature grip

I. Lateral tripod grasp

Pencil stabilised against radial side of third digit with index pulp on top of shaft of pencil, thumb adducted and braced over or under anywhere long lateral border of index finger, wrist slightly extended, fourth and fifth digits flexed to stabilise metacarpophalangeal arch and third digit, localised movements of digits of tripod and wrist movements on tall and horizontal strokes, forearm resting on table.

J. Dynamic tripod grasp

Pencil stabilised against radial side of third digit by thumb pulp with index pulp on top of shaft of pencil, thumb stabilised in full opposition, wrist slightly extended, fourth and fifth digits flexed to stabilise metacarpophalangeal arch and third digit, localised movements of digits of tripod and wrist movements on tall and horizontal strokes, forearm resting on table.