

## PRELIMINARY TREATMENT.

Morphine,  $\frac{1}{4}$ .Morphine,  $\frac{3}{8}$ ; atropin, 1-100.

## AMOUNT INJECTED.

1 cc 5 p.c. sol.

1 cc 4 p.c. sol.

## POSITION.

Patient lying on side.

Patient sitting up.

Hips elevated 2 in.

Shoulders elevated 4 in.

Head elevated 6 in.

## OPERATING POSITION.

Lithotomy position.

Patient on back.

Same elevation of parts.

Partial Trendelenburg.

## OPERATION.

Vaginal hysterectomy.

Curretage, Perineorrhaphy.

Dilatation Sphincter Ani.

Alexander's operation.

## AFTER POSITION.

Patient kept with head up.

Patient kept with head low.

## CAUSES OF FAILURE.

1. Old or weak solutions. Even solutions from most reputable makers may be useless.

2. Any cause which would interfere with making an ordinary lumbar puncture, as:

(a) Spinal rheumatoid arthritis.

(b) Spinal deformities in lumbar region.

(c) Very nervous patients who will not bend the back.

(d) Errors in locating proper position or direction, thus striking the bone, or failure to completely puncture the thick interosseous membrane.

(e) Striking bloodvessel and getting a clot of blood in needle.

## CONTRA-INDICATIONS.

1. Any case where a minor anaesthetic will suffice.

2. Haemophilia.

3. Patient with maniacal or neurotic tendencies, since mania seems an occasional after result.