

rest in. The same is also done at the upper end of this bandage, which forms another short trough for the hand to rest in. See figure 2.

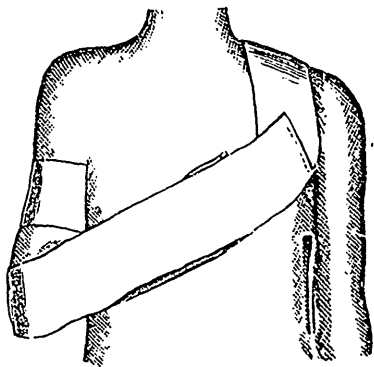


Figure 2. VanBuren's second Bandage for Fractured Clavicle. Front view.

This bandage or sling may be made as described above, before it is applied, and the elbow placed in the lower trough and the hand in the upper one; and the upper ends of the bandage pinned to the lower margin of the first bandage, at a point opposite the sound shoulder, as above indicated; indeed I prefer this plan because more convenient. This sling serves the triple purpose of drawing the lower end of the arm forward and upward, and thus throwing the injured shoulder backward. It supports the forearm and hand in a comfortable and quiet position, and last, it prevents the first bandage from cording under the sound arm by its attachment to its lower margin. To prevent the bandage from producing excoriation in the axilla of the sound side, I usually cushion the bandage at this point by stitching on two or three extra thicknesses of the cotton cloth. The same may be done at the loop,—around the arm of the injured side, if necessary. What is presented, then, for the consideration of the profession in this method is—

- 1st. The great simplicity of the appliance.
- 2nd. The complete retention of the fragments in apposition.
- 3rd. The comparative ease with which the bandage is worn.

The deformity which takes place in fracture of the clavicle is too well known to require any description, viz.: that the shoulder falls downward, forward and inward, and that the outer end of the sternal fragment overlaps the inner end of the

acromial portions of the clavicle. The indications to be fulfilled in the treatment are also well known, viz: to draw the shoulder upward, outward and backward, and retain it there, and thus by virtue of this position, hold the fractured ends in apposition. It will be observed that the first bandage, as presented in Fig. 1, not only draws the shoulder backward, but has a lifting tendency, the bandage being at a higher point, where it passes over the sound shoulder than where attached to the arm on the injured side, hence the shoulder is drawn upward; also that the deltoid and biceps muscles are quieted by the loop around the arm. Let the surgeon himself stand erect and thrust backward and upward his own shoulder, the one supposed to be the injured one, and flex the fore-arm upon the chest, with the hand pointing in the direction of the sound shoulder, and he has at once secured the position and fulfilled all the indications desired in fracture of the clavicle; and the bandages presented in this paper retain this position in a very simple and practical manner.

A patient of mine under treatment for this injury, was brought before the Chicago Medical Society, at one of its regular meetings in May last, after union had taken place; and I think the gentlemen who were present can say that there was little or no deformity in the case before them. I also had the privilege of doing what was so much desired before submitting this paper for publication, that of bringing this method before a number of surgeons of high standing in the profession, at the late meeting of the American Medical Association, among whom were Dr. Lewis A. Sayre, of New York; Drs. Gunn and Powell, of Chicago; and Drs. Bridge and Hyde, associate editors of the *Chicago Medical Journal*, who approved of the plan laid before them. I was eager for the opinion of Prof. Sayre, who was the first to put into practice the principle laid down in this method, and the plan received his hearty approval. I have treated every case of fractured clavicle upon this plan, which I have been called upon to attend for the past two years, modifying the appliance from time to time, until the indications sought after were more perfectly acquired. At the beginning of the third week, or earlier, the bandages should be removed occasionally, and passive motion of the elbow and shoulder made. I am of the opinion that judicious movement of all fixed joints is