it is partially withdrawn, its direction changed by inclining its shaft a little inward and downward, and re-introduced until its point again comes in contact with the bone. The upper wall of the obturator canal is then felt and the needle is passed beneath it and advanced 2 cm. further, keeping close contact with the upper wall of the canal and following its direction outward, backward, and upward. An injection is then made of 10 cc. of a 1 ner cent solution of procaine hydrochloride containing adrenalin hydrochloride 1:100,000 while the needle is slightly moved to distribute the solution along the obturator canal. . . .

A skin wheal is now raised at the apex of Scarpa's triangle. Intradermal and subcutaneous injections are now made from this wheal along the sartorius and adductor longus muscles up to Poupart's ligament and along the ligament. These injections require about 60 cc. of the 0.5 per cent solution of procaine hydrochloride containing adrenalin hydrochloride 1: 100,000. 3 references.

A. W. F.

SNYDER, F. F., AND KHA TI LIM: Effect of Morphine on Labor. Proc. Soc. Exper. Biol. & Med. 48: 199 (Oct.) 1941.

The question has arisen many times as to the mechanism whereby the administration of morphine to the mother in labor may result in injury of the fetus. There must be considered first the effect of the drug upon the fetus directly; and second, the effect of the drug on the labor mechanism. The present experiments were undertaken to determine whether or not the effect of morphine upon the fetus is of greater consequence than the effect of the narcotic upon the course of labor.

Rabbits were studied. Morphine in dosage of 13 mg. per kilogram was given intravenously to the maternal

animal at the onset of labor. This dose resulted in well marked analgesia of the mother without loss of consciousness. In 8 liters containing 45 fetuses, all of the fetuses except one were born alive and survived when delivery was carried out by hysterotomy, at intervals varying from twelve minutes to fifteen hours after injection. In litters delivered at twelve and twenty minutes after injection, fetal narcosis was marked.

In 13 animals the same dose was given at the same time, and the mothers allowed to deliver spontaneously. Here, in striking contrast to delivery by hysterotomy, the incidence of still-births amounted to 70 per cent of the litters. Prolongation of labor was noted and gave evidence of impairment of the expulsion mechanism.

It would seem that the chief damage of morphine is on the labor mechanism rather than directly on the fetus. In so far as the experiments reveal the etiology of respiratory failure at birth following the administration of morphine during labor, it is evident that injury of the fetus is largely a consequence of injury of the birth mechanism rather than of fetal narcosis. R. D. D.

OWENS, L. B.; WRIGHT, JACKSON, AND BROWN, EDNA: The Efficacy of Intravenous Sodium Bicarbonate Therapy in the Treatment of Diabetic Ketosis. Arch. Int. Med. 68: 1066 (Dec.) 1941.

The intravenous administration of sodium bicarbonate in diabetic ketosis was first used in 1886, but there is still disagreement as to its efficacy. Evaluation of a single procedure is difficult because there are so many different prognostic and therapeutic factors.

Disturbed carbohydrate metabolism results in excessive fat metabolism and excessive formation of intermediary break-down products, ketones. These

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ketones are excreted via the lungs, oxidized in the tissues, but principally appear in the urine, some as the sodium salts of organic acids. This excretion of sodium, as organic salts, depletes the alkaline reserve of the body.

Carbon dioxide combining power is a measure of the acidosis existing. Determination of the blood ketones, on the other hand, is a direct measure of the disturbance of fat metabolism, and therefore an index of the severity of the underlying metabolic changes.

Death is not correlated with blood sugar, ketones and carbon dioxide combining power. Many patients die although chemically cured. Mental state and the duration of mental symptoms are more reliable prognostic signs.

An intensive study was made of 12 cases of severe diabetic ketosis. All of these received intravenous saline; insulin, 40-50 units per hour until the blood sugar approached normal; intravenous dextrose, 5 per cent, when the blood sugar approached normal, if acetone persisted in the urine. Blood sugar, carbon dioxide combining power, and blood ketones were determined on admission, and every three hours thereafter.

Nine of these patients also received 15-55 grams of sodium bicarbonate intravenously in a 5 per cent solution. They showed an average rise in earbon dioxide combining power which was twice as great as occurred in the patients receiving no sodium bicarbonate. Kussmaul respirations were promptly There was no effect upon mental state, blood pressure or urinary output. The most unexpected finding was the fact that the blood ketones increased in two thirds of these patients following the administration of bicarbonate, and in the remaining one third, the fall was slower than in the patients who received no bicarbonate. The urinary output of ketones was concomitantly less.

The remaining three patients served as controls, receiving no bicarbonate. They showed a progressive rise in carbon dioxide combining power, and a proportionate fall in blood ketones.

In addition, the records of 154 consecutive cases of severe diabetic ketosis were studied statistically. One third of these received sodium bicarbonate intravenously, with no effect on the mortality rate.

The authors conclude that "There seems to be no practical basis for sodium bicarbonate therapy in the treatment of diabetic ketosis."

R. B. B.

Pelner, Louis: The Value of the "Head-Up" Position for an Infant.

Arch. Pediat. 63: 666-668 (Oct.)
1941.

From an accident to his own 3 months old girl, the author offers a case report and suggests prophylaxis. The baby, four hours after a feeding, was placed flat on her back in bed for a She was in good health and spirits at the time. When next seen she was gasping for breath, lips blue. skin bluish yellow, extremities limp and The pulse was weak, rapid lifeless. and irregular. While the doctor ran to boil up a syringe for injecting epinephrin, the mother snatched up the child by the feet and slapped her vigorously. A thick ropy mucus exuded from the body's mouth and a few minutes later she was her normal self.

From this incident the author draws the conclusion that babies should sleep upon a hard hair stuffed pillow so that if mueus or regurgitation of stomach contents occurs gravity will aid its entrance into the stomach instead of into the lungs. He does not suggest a method of how the child is to stay put upon the pillow, nor does he give his wife due credit for having chosen the better part.

M. H. B.