administration of anesthetics is attended by greater risks when entrusted to persons of little experience.

Spinal, intravenous, local, nitrous oxide, cyclopropane, and ether anesthesia are shown to be attended by both death and complications, as reports from various sources have demonstrated. Not one of the aforementioned agents can be called safe. Vinesthene and trichlorethylene have not as yet had enough extensive use to be considered. In a reminiscent, non-statistical manner the author cites his own sad experiences.

The paper is concluded by a selection from "Practical Anaesthesia" by the anesthetic staff of the Alfred Hospital, Melbourne, Australia, in which twelve considerations are proposed as criteria for the comparison of anesthetic risks. Most germane to the subject is the last.

"Should a fatality occur, it should be discussed with entire frankness by the anaesthetist and all parties conerned, so that all possible errors of judgment and technique may be detected and avoided."

M. H. H.

Ayre, Philip: Anaesthesia for Neurosurgery (With Special Reference to Tricholorethylene). Brit. J. Anaesth. 19: 17-31 (Jan.) 1944.

In this paper, the author discusses the problem of anesthesia in neurosurgery, emphasizing the necessity of providing the neurosurgeon with an operative field in which there is neither vascular congestion, nor venous oozing which may be attributed to the anesthetic or method of administration. He contends that the methods generally employed, to wit, basal narcosis supplemented with nitrous oxide in a semi-closed system, do not achieve this ideal. In consequence he has utilized the device of the "open" T-tube-piece, described in Lancet, March 6, 1937, p.

Administration by this methad of all agents has been conspicuous successful, particularly with neurasurgical procedures. Since July 1942. trichlorethylene rather than chlore form has been used to supplement if trous oxide. Since then 105 neurosurgical patients have been anesthetized with trichlorethylene. Seven of these patients developed cardiac irregulas ties. Of these, five were dismissed as of no consequence; two bad-risk mitients developed more serious arrhyta mias. One, a 2:1 block which disa when trichlorethylene discontinued: the other a total irregalarity, did not cease even when ether was substituted, but finally stopped during the latter part of the operation, during which time trichlorethylene was cautiously added. Electrocardiograms were not taken. As has been observed before, an increase in respiratory rate was noticed with trichlorethylene and esthesia. No complications could be associated with this increase. Postoperative pulmonary complications were relatively rare (two cases). Natsea and vomiting were minimal. The majority of the patients were "fuß conscious within an hour from the time the operation ended."

The technic for preparing patients is described. Opiates are used for premedication, and the throat and vost cords sprayed with 2 per cent pone cain. Induction is carried out either with 4-10 cc. of 5 per cent soding pentothal or with nitrous oxide-techlorethylene in a semi-closed system, after which the patient is intubated orally, and the mouth packed well gauze wrung out in liquid petrolating. The T-piece is then connected and constant flows of gas begun.

Four cases with accompanying ansathetic charts are presented illustrating the course of anesthesia for integranial operations.

Stress is laid upon the fact that the

method employed is an open one. Most of the complications reported with trichlorethylene have occurred with its use in closed systems. Of most importance is the fact that the type of patient dealt with requires at most, first plane anesthesia. If deeper anesthesia is required, other agents, ether or chloroform, are recommended.

M. H. H.

LUNDY, J. S.; ADAMS, R. C., AND SEL-DON, T. H.: Anesthesia Today. Wisconsin M. J. 42: 1235-1239 (Dec.) 1943.

"The present global war has resulted in a dispersion of the physician anesthetists formerly available in civil practice. Nurse anesthetists also, although more numerous than physician anesthetists, are relatively scarce. . . . Because of the trauma of war, two of the urgently needed therapeutic most measures are relief of pain and measures to combat shock. These activities are in the daily practice of the anesthetist, and it is but natural that his field of usefulness should be in demand in the practice of military medicine. . . . After the war, the number of anesthetists who can be spared from military service can, and we think will, be absorbed into civilian practice very quickly, and even then the civilian demand will not be properly filled. . . . The principal need now and in the future will be for skill in the administration of anesthetic agents and in associated activities. . . . To develop the necessary skill and judgment, it is necessary that the anesthetist be conversant with the fundamentals of anatomy, physiology and pharmacology, but, above all, he must be a relatively good clinician. . . . Advances in anesthesia are not necessarily dependent on the development of new agents, although that is a considerable factor, but are also dependent on development of new technics. . . . The results associated with the ever expanding field of anesthesiology have meant that most complete anesthesia records must be maintained. . . . Advances in clinical anesthesia must be paralleled by advances in essentiate knowledge and research acquired in the laboratory and disseminated through the published literature so that work of merit will not be semi-permanute overlooked." 4 references.

J. C. M. (🖁

KRANTZ, J. C., JR.: Recent Advances of Anesthesia. J. Am. Pharm . As Scient. Ed. 32: 287-293 (Nov. 1943.

"Divinyl oxide is more powerfiff than ether. . . . With it, anesthesia 🕱 rapidly induced, but owing to hepatic injury which may occur upon pro longed inhalation of this anestheti agent, its use is confined to operations of short duration. . . . [Cyclopropane] is more potent than ethylene and hence permits the admixture during anese thesia of a larger percentage of oxy Relaxation of abdominal musculature is good during cyclopropan& anesthesia. During the decade of is use the gas is now established as au important and dependable agent... 🌣 At the Medical School of the Universited of Maryland in 1939, Krantz, Evans Carr and Forman succeeded in devek oping a chemical reaction for the cor8 venient preparation of aliphatic cyles propyl ethers. Four of these ethers have been prepared already, and one of them has had preliminary triaff This new anesthetic agent is eveloge propyl ether known as cyprome ethe ... The compound appears to be promising. Other anesthetics new which have been produced by these in vestigators and are under study at the present time are: Cypreth ether, exprethylene ether and propethylene ether. . . . The. widest use of [pentothal] recently has been in pro-