Joseph A. MacDougall B SC MD CRCPC

Literature relating the early history of ether anaesthesia in New Brunswick which, as part of British North America was a British colony until 1867, is reviewed. There is documentary evidence that the first ether anaesthetic for dental surgery in what is now Canada, was administered in 1844 in St. John, New Brunswick. There is also documentary evidence that the first ether anaesthetic for general surgery was administered in St. John on Monday, January 18, 1847, rather than in Montreal in March, 1847.

Credit for the first use of ether anaesthesia probably belongs to Crawford Long in 1842.¹ However, W.E. Clarke had also administered ether for a dental extraction in Rochester, New York in January, 1842,² two months before Long used it in Jefferson, Georgia. The use of this agent did not become widespread until four years later following the first public demonstration of ether anaesthesia by William Morton at the Massachusettes General Hospital. On October 16, 1846, Morton administered ether ("Letheon") to Gilbert Abbott for the excision of a neck tumour by John C. Warren, Professor of Surgery at Harvard.³ The news of surgical operations performed during insensibility spread rapidly. Reports of the use of ether appeared in medical journals and the lay press of the Eastern United States. There is also substantial agreement that ether was first used in Britain on December 19, 1846, in London and Dumfries simultaneously.⁴ There is no agreement, however, on its first use in Canada. Evidence published to date is inconclusive. Matsuki, in his detailed history of ether anaesthesia in Canada gives a verified chronology.5

History of Medicine

The earliest ether anaesthetic in British North America - a first for Saint John, New Brunswick?

Evidence which suggests ether was first used in St. John* New Brunswick is presented here.

Documentary Evidence

On December 1, 1846, the British American Journal of Medicine and Physical Science announced in its column, "Books etc. Received during the Month," reception of the November 18th issue of the Boston Medical and Surgical Journal which included H.J. Bigelow's paper on ether anaesthesia.⁶ This is the first information on ether published in Canada. In its following issue, the first of next year, the same Journal,⁷ published a countervailing, rather negative article, entitled "Insensibility During Surgical Operations Produced by Inhalation." This was extracted from the December 1846 issue of the Philadelphia Medical Examiner. The medical profession, it suggested, would not be taken in by this apparent hoax. Also in January, 1847, a Montreal dentist called Webster purchased an ether inhaler from a "chevalier d'industrie." With a Dr. Horace Nelson, Webster experimented with ether anaesthesia in dogs. They also administered ether to each other and in March 1847, Dr. Wolfred Nelson (Horace Nelson's father) successfully removed a large tumour from a woman anaesthetized with ether by Mr. Webster. The precise date of this operation is not known, but if it took place before March 8, 1847,8 it precedes the case of Dr. Worthington of Sherbrooke, who on March 11 or 14, 1847, amputated the foot of a 30-year-old man under ether anaesthesia using a large ox-bladder with a stop-cock as an inhaler.9 Jacques believed that this was the first ether anaesthetic in Canada.¹⁰ In March, 1847,

*In the Charter of the City of Saint John the word "Saint" is spelled in full. For many years, however, it was abbreviated by local custom to St. John. On April 25, 1925, City Common Council decided to revert to the original Saint, to distinguish their City from St. John's, Newfoundland and St. John, Quebec.

From the Department of Anaesthesia, Saint John Regional Hospital, P.O. Box 2100, Saint John, New Brunswick, E2L 4L2.

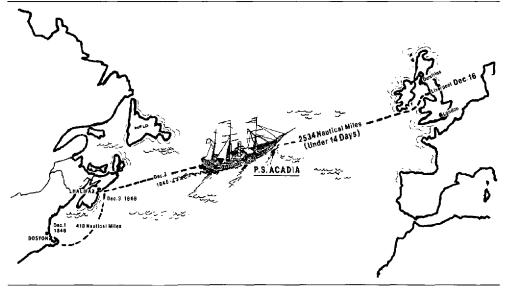


FIGURE 1 Movements of the P.S. Acadia December 1-16, 1846.

Dr. James Douglass of Quebec amputated the toes of a man under ether anaesthesia.¹¹ This anaesthetic, which precedes Dr. Nelson's, was previously thought to have been the first in Canada, the conclusion being based largely on inference, from an unscientific differentiation dependent upon the terms "lately" and "more lately."¹¹

Not surprisingly, there were also failures: Dr. Campbell at the Montreal General Hospital failed to anaesthetize a patient with ether.¹¹ His report, together with editorial comment, appeared in the same issue of the journal.¹² By September 6, 1847, Dr. J. Crawford of McGill College had tried unsuccessfully to use ether for sedating a patient with traumatic tetanus before successfully anaesthetizing a 14-year-old boy for the amputation of a leg.¹³

Today we know that the news of ether anaesthesia spread quickly from Boston. Dr. Bigelow's paper encouraged many to try ether. Wright states:

News of ether anaesthesia had first reached Britain through the Boston Medical and Surgical journal and Dr. Begelow's letter to his friend Dr. Boott, which was carried in the *Acadia* from Boston to Liverpool, arriving on December 16, 1846.

Sykes¹⁵ and Ellis¹⁶ (1958) explored possible travel arrangements in considerable detail. Through Sykes we are indebted to the Cunard Shipping Line for the following information: "We have established from our sailing records that the Acadia, one of the four wooden paddle steamers with which Samuel Cunard and his partners inaugurated their steamship services between Britain and North America in 1840, arrived at Liverpool on December 16, 1846. Her voyage took just under 14 days, the average approximate time taken by Atlantic Steamers during the 1840's."

Further, the Deputy Keeper of the South Kensington Science Museum stated:

"We have a note that in 1847 The Cunard P.S. (paddle steamer) Hibernia (1843) crossed from Halifax to Liverpool in 9 days 1 hour 30 minutes at a mean speed of 11.67 knots. This was however, a record at the time for the normal service speed of the vessel is stated to have been about 9.25 knots."

At her usual speed, the Acadia would have taken about eleven and a half days from Halifax (Figure 1). The reference to Halifax confirms that in 1846–1847 the four ships of the British and North American Steam Packet Company sailed regularly between Liverpool and Boston, calling at Halifax on the outward and return voyages. This is suggested in, "Warden of the North" by Raddall.¹⁷ In 1846 Joseph Howe, pushing for an extension of the telegraph from St. John to Halifax, suggested that Halifax could become a clearing house for world news, "as the

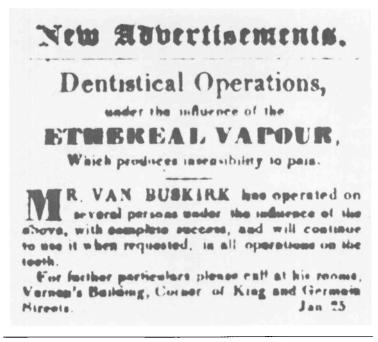


FIGURE 2 Dentistical Operations: The New Brunswick Courier, Saturday, January 23, 1847.

first point of west bound Cunarders and the last port of the east bound."¹⁷

The following documentary evidence indicates the movements of the P.S. Acadia in December, 1846.

"Cleared—Boston—Tuesday, December 1st, 1846." "Arrived—Halifax early morning Thursday, December 3rd, 43 hours after leaving Boston."

"Cleared—Halifax, same day, Thursday December 3rd, 1846."¹⁸

"Arrived—Liverpool, December 16, 1846."15

Mail from Halifax, which would have been cleared on Thursday, December 3, arrived in St. John at 10 pm, on the following Monday night, five days later. Ordinarily the mail came express which took two days, but in December 1846, the buget for this service had run out for the year and the ordinary mail was used. This took two to three days longer.¹⁹

On Friday December 18, 1846, one of the seventeen St. John newspapers,²⁰ the Weekly Chronicle printed the entire article:³

"Insensibility During Surgical Operations Produced By Inhalation" Read before the Boston Society of Medical Improvement, November 9, 1846 an abstract having been previously read before the American Academy of Arts and Sciences, November 3rd, 1846. By Henry Jacob Bigelow M.D., one of the surgeons of the Massachusettes General Hospital. (From the Boston Medical and Surgical Journal)

On Saturday, January 23, 1847, the New Brunswick Courier, printed the notice illustrated in Figure 2.

This notice was repeated weekly at least until March 20, 1847, and was also carried in the Saint John Morning News from January 25 three times weekly for several months.

On Friday September 8, 1905, the Saint John Globe²¹ reported a paper on the early history of Dentistry in St. John, written and read by Dr. A.F. McAvenney before the

Two brothers named Vanbuskirk practiced dentistry here in 1840. The first time that ether was administered in St. John for extracting teeth was in the office of the Vanbuskirks by Dr. Wm. Bayard. Dr. Bayard tells a very amusing story of all the precautions he took with his lady patient, and also the preperations made by the dentists in case the patient gave signs of being at all unruly. If she had been a raving maniac she could not have been more closely secured before they atempted to administer the anaesthetic. This was in 1844 shortly after Dr. Horace Wells, the American dentist, discovered surgical anaesthesia. One of the Vanbuskirk orothers married Miss Reid, daughter of a prominent pilot. Miss Reid at that time was considered the handsomest lady in St. John. The Vanbuskirks left St. John in the early fifties, one going to Halifax, the other to Montreal.

FIGURE 3 The Saint John Globe, Friday, September 8, 1905. From: A paper on the early history of dentistry in St. John written and read by Dr. A.F. McAvenney, before the Dental Association of Halifax on Wednesday, September 6, 1905.

Dental Association of Halifax and subsequently published in the Dominion Dental Journal²² (Figure 3). In the 57 years reviewed, between 1823 and 1880, Dr. McAvenney mentions aproximately 30 dentists. No details are given about eight who practiced for short periods. All but two of the remainder were either from the United States or local men trained in the United States. Most were both dentists and physicians. Three were trained in New York and all the remainder were trained in Boston or Philadelphia. Dr. McAvenney specifically mentions the name VanBuskirk:

A record of the use of an anaesthetic in St. John for general surgery appeared in The Weekly Chronicle (St. John), Friday, January 22, 1847^{23} (Figure 4) and the

Phoenix Advertiser (St. John) Saturday, January 23, 1847 (Figure 5).²⁴

This information indicates that ether anaesthesia was used in an operation which took place in St. John, New Brunswick on Monday, January 18, 1847, 20 days before Dr. Nelson's operation in Montreal and at least 16 days before Dr. Douglas' amputation in Quebec. It also preceded by a greater margin, Dr. Worthington's amputation in Sherbrooke.

Dr. Martin Hunter Peters the surgeon, was the 12th child of Charles Jeffery Peters who landed in St. John on May 18, 1783, two years after the end of the American Revoluton. Charles Peters, who was born in New York,

THE CHRONICLE.

SAINT JOHN, JANUARY 22, 1847.

SUBGICAL OFERATION.—We are informed that a tumor was yesterday removed from the arm of Mr —— Beatteay, of Carleton, by Dr. Hunter Peters, of that place, while the man was rendered entirely insensible to prin by the inhalation of the vapor of a compound of which a ther appear to form the chief ingredient —Complete sleep and insensibility were produced in three minutes by this process, under the direction of Dr. Adams, of Boston; and the instant the operation was completed, an open window and a little cold water to the fore head, inimediately restored the patient, who at once expressed himself as " having been very happy and quite unconscious of having felt anything."

We bring this under the notice of the public, that others may benefit by this wonderful improvement in modern science. Many, to our knowledge, are laboring under discase in this City, who have not the fortifiede to endure the pain of an operation. This process is safe and rapid and has already been extensively used in Boston and other pormous of the United States, by the most emittent Surgeons there.

The operation was performed in the presence of three Medical gentlemen, who expressed themselves perfectly satisfied with the complete and entire insensibility to pain of the patient.—Dr. Adams remains a day or two in the city, when he will visit Fredericton.—St. John Jas. 18, 1847.

FIGURE 4 The Weekly Chronicle (St. John) Friday, January 22, 1847. Copied from the Weekly Observer (St. John) Tuesday, January 19, 1847.

was ten years old at the time. Dr. Martin Peter's home and office where the anaesthetic took place was built for him by his father, who was a very successful lawyer. The home, Gothic Cottage in design, is still an attractive and interesting home (Figure 6). Dr. Martin Hunter Peters was a Lt. Colonel in the Militia and was made a Freeman of the City.

Dr. George P. Peters, one of the witnesses, was a brother of Dr. Martin H. Peter's and the eighth child in the family. Both were graduates of Edinburgh University. Dr. George Peters served on the Licensing Board appointed by the Lieutenant Governor to check doctors for character and competence before granting or refusing a license. He became the Superintendent of the First Mental Hospital in British North America.³³

Dr. Cyrus Fiske was a native of Salem, Massachusettes, a Harvard graduate in Medicine and Dentistry and one of many itinerate physicians who practiced Dentistry at that time. He was married on June 19, 1845, in St. Andrews, N.B. while practicing Medicine in Salem.²⁵ In the New Brunswick Courier December 6, 1845, under Dentistry a notice appeared informing the public that "Dr. Fiske will visit the City in a few days and will be prepared to offer all types of dental services."26 Also, in the N.B. Courier, December 12, 1846, there is a description of an anaesthetic (ether) given by Dr. Fiske in Salem, Mass. This was copied from the Salem Register. This anaesthetic took place on Thursday afternoon, November 19, 1846.27 In the N.B. Courier of December 12, 1846 there appears a prominent first page notice -"Dr. Fiske, Surgeon, Dentist and manufacturer of Mineral teeth - one door North of Mann's Hotel, Germain Street."28 This is dated September 19. Dr. Fiske became a successful dentist, occulist and aurist.

NOTICE.

Da. FISKE, Dental Surgeon, of this City, has procured the "LETHEON," a vapor administered to produce insensibility during Dental and Surgical Operations, and he will make use of it in all operations upon the mouth where it will apply. He will also direct in its use for other Surgeons, (for surgical operations) when desired.

An operation was recently performed for removing a tumor from the arm at his office. by Dr. Peters, of Carleton, in presence of Drs. Peters and Fitch, of this City, and other gentlemen; the result was satisfactory to all parties, and the suspension of sensibility perfect. St. John, January 23, 1847.

FIGURE 5 The Phoenix Advertiser (St. John), Saturday, January 23, 1847.

The N.B. Courier of April 2, 1842, describes Dr. Simon Fitch in the following notice; "Dr. Simon Fitch a graduate of Edinburgh University; member of the Medical Society of Paris and late sole house surgeon to the General



FIGURE 6 Home of Dr. Martin Hunter Peters, corner of Watson and Gilford Streets. Then Carleton, now Saint John West (With kind permission of Mr. and Mrs. W. Foster Hammond).

Lying-in wards of Edinburgh, begs leave to offer his services in every department of his profession, to the inhabitants of St. John and its vicinity. Residence and office in the building formerly occupied as the Post Office – corner of Germain and Princess. Advice to Poor – gratis."²⁹

The fourth physician mentioned is Dr. Samuel Adams, a visiting consultant in anaesthesia. To date this is all the information about this elusive gentleman, but the name appears in two other interesting references. In his article, "Early History of Anaesthesia in Newfoundland," Wright¹⁴ mentions an advertisement in The Public Ledger (St. John's Newfoundland) of November 16, 1847, by a Dr. S. Adams, a Surgeon Dentist visiting St. John's for two weeks, presumably from the mainland. On November 26, 1847, a William L. McKay, a Chemist and Druggist, placed a notice in The Public Ledger (St. John's Newfoundland), November 28, 1847 (Figure 7). Was this Dr. Samuel Adams of Boston visiting again?

Ellis, is convinced that the news of ether was discussed by Dr. William Fraser the ship's surgeon and some of the passengers during the Acadia's voyage. It must have been spread further by someone aboard when the vessel arrived

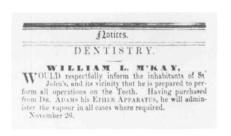


FIGURE 7 The Public Ledger (St. John's Newfoundland), November 28, 1847.

in Liverpool because on Friday, December 18, 1846, a preliminary account appeared in the Liverpool Mercury.¹⁶

In the Halifax newspaper, The Nova Scotian of December 7, 1846, under passengers, four of the 43 passengers going from Boston to Liverpool on the Acadia are listed – one name was Adams.³⁰

From the Saint John Globe (New Brunswick) of March 22, 1847, there is a report of an operation performed by Dr. William Bayard quoted directly here:

"Experience is establishing the beneficial effects of ethereal vapour during surgical operations, and the use of it is receiving the highest professional sanction in Europe and the United States. In our own city the experiments which have been already made, are confirmatory of the advantages of it. The inhalation of the vapour may or may not occasion sleep, but even though it fails in some instances to produce sleep, it nevertheless causes either an unconsciousness of pain, or, a total disregard of it. This fact was fully illustrated during an operation recently performed by Dr. William Bayard in the Hospital of this City and County (most likely the Alms House). The operation under ordinary circumstances must have occasioned very great pain. The patient inhaled the vapour of ether through a machine made by Mr. Van Buskirk, the dentist, who was present. A large quantity was inhaled, exciting the most agreeable sensation, but the man said it would not make him sleep and asked for some brandy, saying that it would affect him. A little was given him, and he again inhaled the vapour, manifesting the same pleasurable sensations. He then told the doctor to "cut away"; when he saw the knife applied he seemed sensible of it at the time, but he laughed and talked during the operation, and slapping the doctor on the shoulder he said: "cut away doctor, you cut like a

gentleman." The effects of the vapour in this case were somewhat similar to those reported by Professor Miller of the Royal Infirmary in Edinburgh. In his case the man, though perfectly awake, was unconscious of pain during the performance of an operation, whilst his attention was engaged in conversation with those around him and it is probable that a similar degree of unconsciousness would have characterized the operation in our hospital if the patient had been blindfolded, or, if the knife could have been applied without his seeing it at the moment."³¹

Bayard was the son of Dr. Robert Bayard, a former professor of midwifery at the University of New York, who refused to take the oath of allegiance to the United States in 1812 and returned to Canada. Dr. Robert Bayard was a son of Major Samuel Bayard of the King's Orange Rangers. Dr. William Bayard graduated from Edinburgh in 1837. He was the father of the General Public Hospital and first President of the N.B. Medical Society from 1867 to 1871 a post to which he was re-elected in 1880-1881. 1890-1891 and 1899-1900. He was the first President of the Medical Council of New Brunswick, July, 1881, first President of the Maritime Medical Association, 1879, and President of the Canadian Medical Association in 1894. He served as Coroner and Chairman of the Board of Health for many years. A good speaker and lucid writer, who contributed articles to the Montreal Surgical Journal, the Maritime News and the New Brunswick Agriculturist.³² He was honoured by his colleagues and the citizens of St. John on his anniversaries of 40 years, 50 years and 60 years of active medical practice.

Discussion

The information presented in the second part of this historical review became known to the author while compiling a history of the Department of Anaesthesia at the Saint John Regional Hospital.

The precedence of Crawford Long and William Morton is well established, as is the sequence of events leading to the simultaneous introduction of ether anaesthesia in Scotland and England. However, bearing in mind the relative importance of St. John in 1846 (pre-confederation), as compared to its present status, it seems reasonable to postulate that, if London and Dumfries received the news from Boston on December 16, 1846,^{4,16} carried by the Acadia which called at Halifax 13 days earlier, St. John could have and indeed did receive the news 10 o'clock Monday night December 7, 1846.¹⁹

Early anaesthesia in St. John was not an accident. Following the American Revolution (1755-1781) thousands of Loyalists left the United States for Canada and

MacDougall: EARLIEST ETHER ANAESTHETIC

St, John soon became known as the Loyalist City. The immigrants were mainly from New York, New Jersey and New England. As the early history of anacsthesia in the United States, Canada and England was directly associated with dentistry, and almost half of the dentists practicing in St. John between 1823 and 1880 trained in Boston, it would be logical to expect early dental general anaesthesia in St. John. While the medical profession was mainly trained in England and Scotland, the dental profession was exclusively American-trained and in most cases were Americans. Considering the commercial, medical, dental and cultural relationships between St. John and Boston, the presence in St. John of some outstanding dental and medical practitioners; the printing of Dr. Bigelow's lecture from the Boston Medical and Surgical Journal in the St. John papers and the arrival of the news in St. John nine days before it reached Liverpool, the sequence of events seems logical.

Furthermore, there is documentary evidence that ether anaesthesia was used for dentistry in St. John in 1844 by Dr. VanBuskirk and Dr. William Bayard.²² This was after Crawford Long and Horace Wells, but some time before William Morton anaesthetised Gilbert Abbott in Boston. If indeed this is one of the VanBuskirk brothers, specifically the Lawrence VanBuskirk referred to by Dr. Daniel McNeill Parker in his memoirs,³³ then the uncertain date mentioned by Parker as being the first in Nova Scotia would seem to be 1850 or later, since Dr. McAveney relates that prior to 1850 the VanBuskirks were still in St. John.²¹ Support is given to this by Gullett. In 1856 George Vanbuskirk of St. John moved to Montreal to take over the practice of W.H. Elliott.^{34,35}

Thus the evidence presented here indicates that the first use of ether anaesthesia for general surgery in Canada was for the removal of a tumour of the arm. The patient was a Mr. Beatteay of Carleton, which is now West Saint John. The surgeon was Dr. Hunter Peters and the anaesthetist Dr. Cyrus Fiske, a St. John Dental Surgeon who was supervised by Dr. Samuel Adams of Boston. Three medical men, one of whom was probably Dr. Peters' brother and other witnesses observed the procedure. They and the patient were perfectly satisfied with the complete and entire insensibility to pain. The operation took place on Monday, January 18, 1847.

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Résumé

On fait la révision de la documentation portant sur les débuts de l'anesthésie à l'éther au Nouveau-Brunswick qui était, jusqu'en 1867, une colonie anglaise faisant partie de l'Amérique Britannique du Nord. Il existe une preuve documentaire que la première anesthésie à l'éther pour chirurgie dentaire fut administrée en 1844 à Saint-Jean, Nouveau-Brunswick, dans le pays qui se nomme maintenant Canada. Il existe aussi une preuve documentaire que la première anesthésie à l'éther pour chirurgie générale fut administrée à Saint-Jean, le 8 janvier 1847, plutôt qu'à Montréal en mars 1847.

Dedication

I would like to dedicate this article to my many former chiefs. I was blessed to have worked with such a distinguished group of Physicians. May we all meet again in Heaven.

Dr. Wesley Bourne St. Mary's Hospital, Montreal Dr. Digby Leigh Children's Hospital, Montreal Dr. Kathleen Belton Children's Hospital, Montreal Dr. Harold Griffith Homeopathic Hospital, Montreal and R.C.A.F. Dr. Ned Lunney Saint John General Hospital Dr. Fred Jennings Saint John General Hospital Dr. Ralph Connell Saint John General Hospital Dr. Eli Davis Saint John General Hospital Dr. Preston Leavitt, Present Chief Saint John Regional Hospital

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Appendix

NAMES OF THE NEWSPAPERS

Saint John, New Brunswick The Saint John Globe The Weekly Chronicle The Phoenix Advertiser The New Brunswick Courier The Saint John Morning News

Halifax, Nova Scotia The Nova Scotian

St. John's Newfoundland The Public Ledger

Liverpool (England) The Liverpool Mercury

Salem, Massachusetts The Salem Register

Boston, Massachusetts The Boston Daily Advertiser Boston Shipping List Boston Courier