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# Atlantic Trauma and Emergency Medicine Conference



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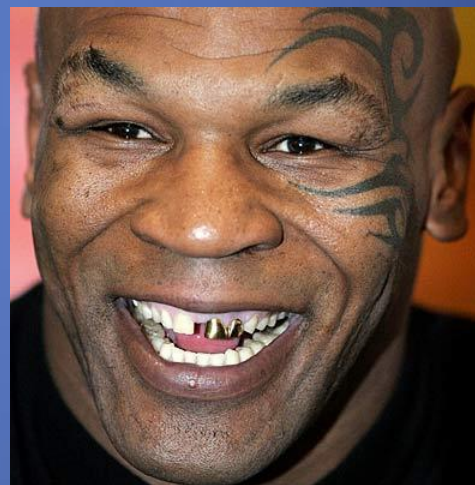


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Any Questions??



# Fixed Wing vs Helicopter







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# History





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Rescue workers prepare to remove an Ecum Secum man by helicopter after he was injured in a secluded area of Guysborough County.

Paul Van der Basch / Contributed

## Chopper proves its worth

Ambulance drops in for woods rescue

by KELLY SHIERS  
Staff Reporter

An air ambulance rushed to the rescue Wednesday morning after an Ecum Secum man was struck by a falling tree in an isolated area of Guysborough County.

The 48-year-old was brought by the helicopter to the Queen Elizabeth II Health Sciences Centre in Halifax, where he was listed in serious condition.

"This is what a helicopter is designed for, what else could do this?" pilot Paul Van der Basch said, recounting how firefighters cut trees and shaved stumps to clear a place big enough for the helicopter to land near the injured man.



Dianne Dorian / Herald Photo

A 48-year-old man is removed from a helicopter in Halifax, where he was taken for treatment after being struck by a tree.

The man is believed to have been among a group of loggers working in the area, about eight kilometres north of Sherbrooke.

Cell phones don't work in that area, so someone had to hike out

of the woods to the nearest pulp road, then drive to get to a phone to call for help.

A ground ambulance was sent to the scene, travelling as far as it could by road. Firefighters and

paramedics hiked to the injured man's side, about a 20-minute walk over "choppy" terrain.

"It was very bad walking," said paramedic Perry Kaiser, who was on the scene. "The road was really bad, so you couldn't drive very fast."

If the helicopter hadn't been able to land nearby, it would have meant carrying the man on a stretcher out of the woods, adding more than an hour to the rescue time, he said.

It's believed the man remained conscious throughout the ordeal. The air ambulance was dispatched from Shearwater.

Instructions to the injury site were given en route, said Mr. Van der Basch.

"They said follow the No. 7 Highway, and turn right at the gravel pit and go in (the woods) three miles," he said.

Thirty-five minutes after the man was loaded into the helicopter, it landed at the Halifax.

■ See Chopper / A2





## Helicopter rescues man in woods near Yarmouth

**BY SHERRI BORDEN**

It was a matter of being in the right place at the right time Saturday for an air ambulance helicopter.

The province's STARS (Shock Trauma Air Rescue Society) helicopter, based at CFB Shearwater, was en route to Liverpool for a public relations exercise when it received a call at about 9 a.m. from the Rescue Co-ordination Centre in Halifax.

The centre reported a man was suffering from chest pains in woods just outside of Yarmouth.

The crew headed to the scene, landing at an isolated area near Lake Hannah where they found the ill man, who was with two other men.

"We weren't that far away actually, so we actually arrived on

scene at 9:30 (a.m.)," said Rose Phinney, the flight team co-ordinator for STARS Nova Scotia.

The man, in his mid-50's, was suffering from severe chest pains and needed to be treated at the scene, said Mrs. Phinney.

The helicopter's four-member medical team and two pilots treated the man with oxygen and medication, then transported him by helicopter to the Yarmouth General Hospital, where he remained in stable condition Sunday.

Mrs. Phinney said it took the team about 15 minutes to transport the man to hospital.

This case was unusual for the province's emergency health service air ambulance program. Its main duty is transporting patients from one hospital to another.





# Air ambulance makes Tancook rescue of 98-year-old patient

By **RACHEL BRIGHTON**  
The Daily News

A 98-year-old great-grandmother, who was rescued by helicopter from her Mahone Bay island home on Friday, was "very lucky," says her daughter.

Verna Stevens, 69, said the air ambulance that rescued her ill mother was a "great thing."

"Otherwise we would have taken her to Chester on the ferry," said Stevens. "It would have taken a lot longer. We were very lucky."

Maritha Barkhouse, the oldest of Big Tancook Island's 170 residents, is in fair condition at the Victoria General site of the Queen Elizabeth II Health Sciences Centre. Stevens said her mother was conscious throughout the 15 minute trip to hospital, where she waited until the afternoon for a bed to be ready.

"Up until this happened, she was quite smart," said Stevens.

But before dawn on Friday, Barkhouse fell ill.

"I thought she was coming down with the flu," said Stevens. "She

seemed so confused. Then I thought she was taking a stroke.

"I called my son at about 10 minutes to six and I said, 'Maybe we should call 911 because mummy's not getting better.'"

Stevens said island residents Julia Stick and her husband arrived in a makeshift ambulance.

The "ambulance," a van bought with community donations, was a step up from the old pick-up in which patients used to be driven to the ferry, said emergency health services spokesman Morris Green.

Green said Stick — who was away this weekend and could not be reached for comment — was vital to the air rescue.

Stick is a volunteer with emergency services. She rushes to an emergency, monitors the situation while help arrives, and lays down the colored cones that guide the helicopter to its landing at the back of the community centre.

After spending Friday with her, Stevens now says her mother did not suffer a stroke, but fell ill when her blood-sugar level inexplicably rose.

Green said the rescue was significant, not only because Barkhouse was the oldest patient to be flown to hospital in the helicopter, but because it was the helicopter's first official rescue mission on the island.

The air ambulance service is also equipped with a small plane, which Green says makes for a better rescue service than the days when former premier John Buchanan's personal plane was borrowed for emergency rescues.

"We used to call it Air Buchanan," he said.



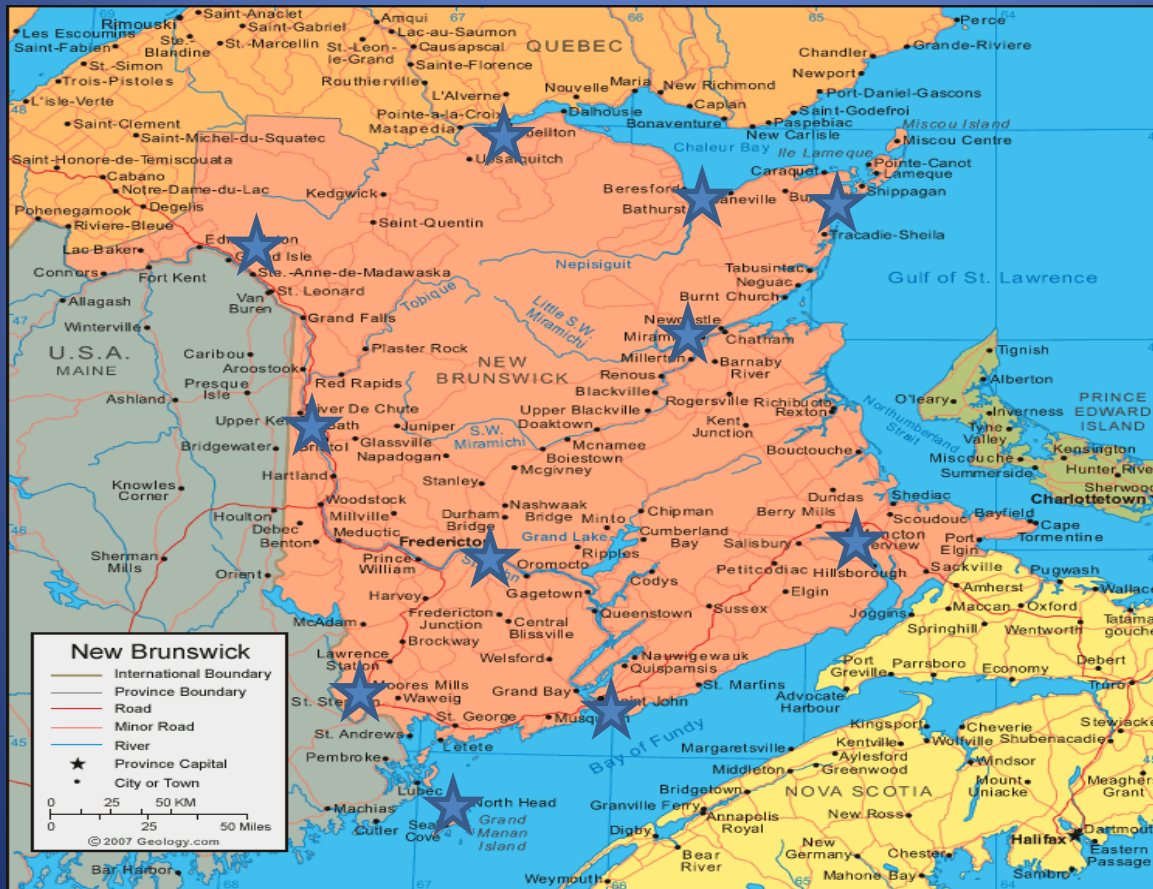


# Jeopardy

- 3300 feet
- What is the runway length needed for a KA 200 to take off
- 0 feet
- What is the Runway length needed for a heli take off
- 2'3"
- What is the door opening width of a KA 200
- 3'6"
- What is the door opening width of S-76



# Location, Location, Location







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## Airport landing

- Must have airport close
- Secure areas
- Must have ground support to get to scene or hospital
- Must have ground support back from scene or hospital
- Back to another airport
- More secure areas
- More ground support to receiving facility
- Then ground support back to base...





## Scene or hospital landing

- Landing on scene or community hospital
- Care direct to scene or community hospital
- Landing directly at receiving hospitals
- Eliminating ambulance legs



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# Remote trauma







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# Research

- Determinants of helicopter benefit for the transport of severe trauma patients

Thibaut Desmettre<sup>1\*</sup>, Claire Bonithon-Kopp<sup>2</sup>, Marc Freysz<sup>3</sup> and French Intensive Care Recorded in Severe Trauma

- “HT seems to act as an accelerator of care within the Hospital”
- INAPPROPRIATE HELICOPTER EMERGENCY MEDICAL SERVICES TRANSPORTS:
  - Based on established criteria, only 1.3% of total flights were determined to be inappropriate.





# Square peg/round hole







# Patient centric design

- Aircraft interior designed for patient care
- Patient placed on stretcher and stays there
- Loading and unloading.
- Eliminate the lift and slide
- Back injury reduction.  
Lines and tubes secured





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# Ground Ambulance Support







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# Remote Scene





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# Rural Hospital







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# Trauma/Tertiary Care Centre





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If these guys picks it.....







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