



Modes of transportation

Rotary craft







Modes of transportation

Fixed wing

- Air medical dedicated
- Charter
- Commercial

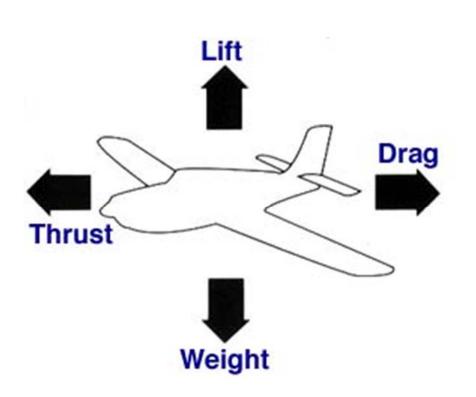








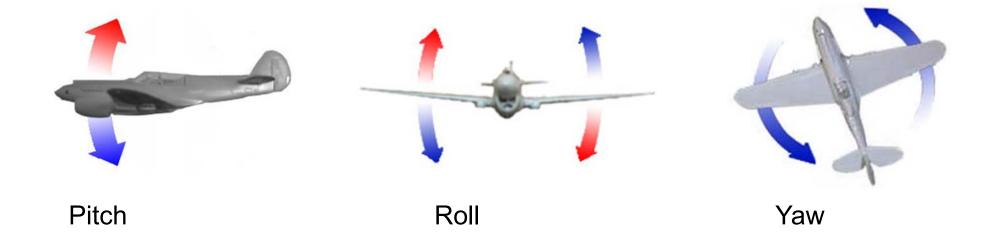
- Forces affecting the aircraft
 - Lift
 - Weight (Gravity)
 - Thrust
 - Drag





Flight Physics

- 3 axis of flight
 - Vertical Axis ("Yaw")
 - Longitudinal Axis ("Roll"
 - Lateral Axis ("Pitch")





Role of Lifeflight

- Transport critically ill / injured patients from provincial hospitals to QEII / IWK / CBRH
- Transport critically ill / injured patients from scene to appropriate receiving facility



Core components of Air transport

- Notification of need by hospital staff / paramedics
- Prepare aircraft for mission
- Response to facility / scene
- Assessment, change over of equipment, and extrication
- Transport to QEII / IWK / CBRH



Preparations for implementation

- Obtain funding
- Set goals of service
- Identify staffing needs
- Develop scopes of practice
- Hire and educate staff regarding physiology of flight medicine
- Develop ground personnel training
 - MFR's
 - Paramedics
 - Hospital staff
- Educate staff and associates





- Increased scope of practice
- Decreased door to door time between facilities
- Speed of flight enables definitive treatment at appropriate facility in more timely fashion
- Allows rural patients better access to surgical intervention





- Weather specific
- Night time scene landings
- Aircraft undergoing maintenance / on a mission
- Rotary craft not generally used for repatriation
- Expense
- High crash fatality rates



Complications

- Severe and unexpected weather changes
- Minor mechanical failure of aircraft / equipment
- Death en route
- Major mechanical failure of aircraft



The atmosphere

- 4 stratified layers
 - Troposphere Sea level 50,000 ft
 - Stratosphere
 - Ionosphere
 - Exosphere
- Air medical aircraft typically fly in first 10,000 ft of troposphere



The atmosphere

Atmosphere (14.7 lb/in²)	Height	Pressure (mmHg) Weight applied on object from above	Volume
1/2 (7.34)	18,000	380	2 volume
(10.11)	10,000'	523	
(14.17)	1,000'	733	
1 (14.7)	Sea level	760	1 volume
2 (29.4)	33' BSL	1520 (2 X)	½ volume
3 (44.1)	66' BSL	2280 (3 X)	⅓ volume
4	99' BSL	3050 (4 X)	1/4 volume



	Barometric Pressure	
Altitude (ft)*	In mm Hg	In psi
Sea level	760	14.7
1 000	733	14.2
3 000	681	13.2
5 000	632	11.8
7 000	586	11.3
10 000	523	10.1
12 000	483	9.3
14 000	447	8.6
16 000	412	8.0
18 000	380	7.3
20 000	350	6.8
25 000	282	5.5
30 000	226	4.4
35 000	179	3.5





- Air temp drops 2 degrees Celsius per 1000 ft
- Atmospheric pressure falls
- Water vapour decreases
- Turbulence increases





Table 2-1: Gaseous Components of the Atmosphere

Gas	% of Total	
Oxygen	21	
N itro gen	78	
Trace gas es	1	
Total	100	



Barometric pressure

- The pressure exerted on an object by the atmosphere
- Measured in mm Hg
- Barometric pressure falls as aircraft ascends



Physiological significance

- Ascent = decreased atmospheric pressure
- Decreased atmospheric pressure = decreased component gas pressure
- Decreased component gas pressure = decreased oxygen availability
- Decreased oxygen availability = hypoxia and hypoxemia
- Think

At sea level	760 mmHg	21% Oxygen
18,000' molecules)	380 mmHg	21% Oxygen (but now half of the # of

• 25,000' – 30, 000' is upper limits without supplemental Oxygen





- Gas volume is inversely proportional to its pressure when temperature remains constant
- Ascent = decreased atmospheric pressure
- Decreased atmospheric pressure = expansion of gases
- Expansion of gases within the body = pressure and possible damage on tissues, i.e GI tract, sinus'.





- The amount of gas that will dissolve and remain in a solution is directly proportional to the pressure of the gas over the solution
- As decompression occurs, nitrogen dissolves from the blood and into the tissues causing the bends



Effects of altitude

Altitude*	Oxygen Saturation	Effects on Vision	Other Effects
4000 to 5000 ft ASL	>93% (no effects of hypoxia)	Some impairment of night vision	
5000 to 8000 ft ASL	90% to 93% Greater impairment of night vision		
8 000 to 10 000 ft ASL	88% to 90%	Some impairment of day vision	Reduced ability to perform tasks
10 000 to 14 000 ft ASL	83% to 85%		Critical loss of judgment, accompanied by euphoria and fatigue
14 000 to 20 000 ft ASL	<83%		Severe loss of judgment, accompanied by belligerence or euphoria
> 20 000 ft ASL	Severe hypoxia		Death occurs in a short time
> 20 000 ft ASL Note: ASL = above sea k * 1000 ft = 304.8 m.	259210		



Un-pressurized aircraft

- Useful in transporting non emergent conditions
- Limited by altitude restrictions
- Lower altitude = increased turbulence
- Increased turbulence = greater incidence of complication i.e spinal trauma, hemorrhage
- Also complicates the administration of care



- Hypoxic Hypoxia
- Hypemic Hypoxia
- Stagnant Hypoxia
- Histotoxic Hypoxia



Hypoxia

- Hypoxia is a state of oxygen deficiency in the body which is sufficient to cause an impairment of function. Hypoxia is caused by the reduction in partial pressure of oxygen, inadequate oxygen transport, or the inability of the tissues to use oxygen.
- In brief, being drunk is kind of the same as being exposed to high altitude. In both cases, oxygen to your brain and muscles is reduced.



Hypoxic Hypoxia

- A reduction in the amount of oxygen passing into the blood.
- Caused by a reduction in oxygen pressure in the lungs, by a reduced gas exchange area, exposure to high altitude, or by lung disease. [This is the hypoxia that is a hazard to aviators.]



Hypemic Hypoxia

- A reduction in the oxygen carrying capacity of the blood. It is caused by a reduction in the amount of hemoglobin in the blood or a reduced number of red blood cells.
- Occurs through:
 - Blood donation, hemorrhage, or anemia.
 - Drugs, chemicals, or carbon monoxide.



Stagnant Hypoxia

- is an oxygen deficiency due to poor circulation of the blood or poor blood flow.
- Examples
 - high "G" forces
 - prolonged sitting in one position or hanging in a harness
 - cold temperatures
 - positive pressure breathing



- Histotoxic Hypoxia
 - The inability of the tissues to use oxygen
 - Examples
 - Carbon monoxide
 - Cyanide poisoning
 - Narcotics, chewing tobacco, and alcohol will prevent oxygen use by the tissues



Table 2-4: Clin	rical Manifesta	tions of Hypoxia
Table 2-4. CIII	nca mannesia	HOURS OF HODOXIA

Subjective Signs Objective Signs

Insidious onset Dyspnea

Visual signs Hyperventilation

Night vision reduced at 4000 ft (1219 m) Cyanosis (late sign)

Day vision reduced at 15 000 ft (4572 m) Tremors, muscle incoordination

Decreased level of consciousness (confusion, stupor, unconsciousness) Blurred vision

Restlessness Tunnel vision

Air hunger Euphoria, belligerence

Apprehension Clamminess

Fatigue Tachycardia or bradycardia

Nausea Tachypnea

Hypertension (initially) Headache

Dizziness Hypotension (late sign)

Confusion Seizures

Euphoria, belligerence, overconfidence Arrhythmia

Ins omnia

Hot or cold flashes

Numbness

Tingling



Factors influencing hypoxia

- Altitude
- Rate of ascent
- Time at altitude
- Individual tolerance
- Fitness of individual
- Activity at altitude
- Temperature at altitude
- Medications, toxic substances, smoking



Time of useful consciousness

 The time between loss of O₂ supply and dysfunction as it relates to altitude

Altitude (ft)	Altitude (m)	Approximate TUC* (minutes)
18 000	5 486	20–30
25 000	7 620	3–5
30 000	9 144	1.5 (90 seconds)
40 000	12 192	≤0.25 (15 seconds or less)



Management of hypoxia

- Recognize potential need prior to definite need
- Highest concentration available
- Utilize pulse oximetry
- Humidify O₂ if possible

Oxygen Administration

For barometric changes

$$- FiO_2$$
 (at flight level) =
$$\frac{FiO_2 X Barometric pressure one}{Barometric pressure two}$$

Example:

- Flight level = 5000 ft
- Barometric pressure one = 760 mmHg
- Barometric pressure two = 632 mmHg

•
$$FiO_{2 (5000')} = \frac{0.5\% \text{ X } 760 \text{ mmHg}}{632 \text{ mmHg}} = 0.6\%$$



Oxygen paradox

 Approximately 15 second period when the hypoxic patient's symptoms actually worsen following oxygen administration

Researchers unsure of cause

• Possible link to role of O_2 - CO_2 balance regarding vasoconstriction / vasodilatation



Interfacility transport

- Landing pad or landing zone
- Latter requires ground ambulance transport from LZ to hospital
- Consults and agreement for transfer between facilities done prior to dispatch of aircraft
- Standing and direct orders in conjunction



Scene response

GPS coordination

150 sq ft landing area

Closest approved landing zone

Landing zone safety



Scene response

 Paramedics and TMR capable MFR's have ability to discuss scene / patient specifics with crew prior to arrival

 Paramedics and MFR's can have patient extricated, treated, and prepared for transport prior to arrival of aircraft

Minimal on scene time required





- Pads at airports and hospitals
- Landing zones throughout province
- Require lighting @ night
- Require landing zone officer
- Dusty site may need wetting



Safe approach

Fixed wing

- Be guided by flight crew / ground crew
- Reverse unit using spotter to loading doors
- Avoid propellers / wings

Rotary craft

- Avoid rotors
- Approach from front / front lateral areas
- Ensure pilot / crew is aware of you
- Approach in a crouch
- Hold long equipment level with ground



Pre flight safety measures

- Daily maintenance
- Equipment assessment
- Pre load checklist
- Start up check





- Fixed wing aircraft commercial / private / air ambulance
 - Province to Province
 - Country to Country
 - Continent to Continent
- Extrication often prolonged / awkward



Indications for Adult (Hospital)

- These are guidelines only and may not apply to several regional hospitals with more advanced capabilities
 - Final decision for transfer will occur with Medical Control Physician input
 - Dissecting/bleeding aortic aneurysm
 - Intracranial bleed (e.g. subarachnoid hemorrhage)
 - Severe hypothermia/hyperthermia
 - Patients in need of emergency cardiac surgery (e.g. ruptured mitral valve)
 - Patients needing mechanical ventilation and/or inotropic support for shock states (such as septic shock)
 - Unstable patient who may warrant investigations not available at referring institution
 - Severe poisonings
 - Renal failure (acute) where dialysis is not available
 - Uncontrollable seizure activity (status).
 - Indications for hyperbaric oxygen therapy



Contraindications

- Patient in full arrest
- Terminally ill patient
- Active untreated communicable disease that would put the crew at risk.
- Uncontrollable, combative patient
- Patient of sound mind who refuses transfer
- Unstable patient, who requires a procedure (i.e. laparotomy)
 which could be performed at the sending centre
- Stable patient in whom another means of transport would be more appropriate



Special Considerations - Trauma

Physiologic Criteria:

- Systolic BP < 90 with hypoperfusion
- Ventilatory Compromise (RR < 10 or > 29)
- Glasgow Coma Scale ≤ 12 or evidence of significant head injury

Anatomic Criteria:

- Amputation proximal to elbow or knee.
- 2 or more proximal long bone fractures.
- Suspected spinal cord injury with neurological deficit.
- Severe maxillofacial injury with potential airway compromise.
- Burns (2nd, 3rd, chemical, inhalation) >15% TBSA.

Mechanism Criteria:

- Gunshot wound proximal to knee or elbow.
- Significant penetrating wound to head, neck, chest, abdomen, or groin.

Logistical Criteria:

 Simultaneous arrival or presence of 3 or more multiple-trauma patients and / or local resources are overwhelmed.



Adult Pt Preparation

Airway

 Intubation is essential if there is any concern about oxygenation, ventilation, obstruction or altered level of consciousness or concern about pending airway compromise (e.g. inhalation thermal injury)

Breathing

- Oxygen is essential, to keep SaO₂ >95%
- Chest Tubes pre-flight are essential if there is evidence of pneumothorax, hemopnuemothorax, significant post-traumatic SQ emphysema, or significant posttraumatic pulmonary contusion
 - larger chest tube is most appropriate (28-32 Fr.)
 - non-trauma patient where only air is to be drained, a smaller sized tube is acceptable

Circulation

- IV access (two large bore IV sites)
- Fluids: Normal saline (unless contraindicated)
- Blood Products
- Monitoring:
 - Cardiac monitoring, oxygen saturation, temperature and blood pressure
 - Foley catheter with urine output monitoring



Adult Pt Preparation

- Pelvic Splinting
 - In a hemodynamically unstable patient with a suspected pelvic fracture
- Other
 - Consider: NPO and use of orogastric or nasogastric tube pre-transport
 - Lab Work: Any recent lab work including CBC, lytes, BS, blood gases.
 - X-Rays: Chest x-ray is of most importance. C-spine and pelvis if possible but not essential
 - C-Spine
 - Photocopy of the patient's information
 - prehospital record, hospital chart, a signed consent to transfer care, relevant X-rays/CTs, a brief transport note from the referring MD and name of accepting MD and place of patient destination.



Indications – Youth (Hospital)

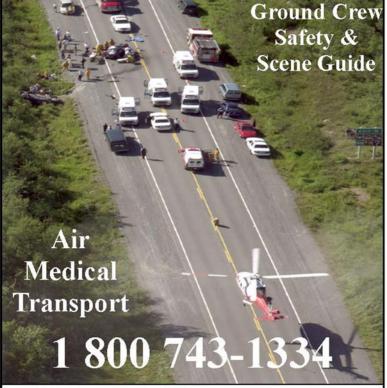
- Asthma, croup, bronchiolitis, pneumonia or other respiratory conditions who:
 - are ventilated or in imminent need of ventilation
 - are intubated or in imminent need of intubation
 - require more than 40% oxygen to maintain Saturations 94%
 - require hourly or more frequent aerosols
 - have visible respiratory distress and increased work of breathing
 - have a respiratory or metabolic acidosis on blood gas analysis
 - have an upper airway obstruction, mediastinal mass or foreign body
- Sepsis and signs of manifest or impending shock, particularly those with immune suppression.
- Unstable cardiac conditions including arrhythmias, heart failure, unstable or unexplained cyanosis.
- Status epilepticus, coma, meningitis, or increased intercranial pressure.
- Unstable metabolic conditions
- Significant head or spinal injuries, cardiothoracic injury, limb amputation, burns, smoke inhalation, near drowning or multi-system trauma.
- Drug ingestions that may require dialysis or life support.
- Rare life threatening systemic conditions such as Hemolytic Uremic Syndrome











EHS LifeFlight provides Nova Scotia's air medical transport (AMT). The AMT program provides rapid emergency air transport for critically ill and injured patients from hospitals as well as from the scene of an accident. This safety and scene guide is a quick reference for all EMS agencies. These cards will familiarize all agencies involved with the indications for requesting LifeFlight and how to access air medical transport, set up and secure a Landing Zone, communicate with the LifeFlight crew, and be safe around the helicopter.

"Safety: A team Approach"

Our primary goal is to provide a safe air medical environment for all team members (Ground and Air) and patients. This can only be accomplished by us looking out for each other and ensuring that we all work safely. If at any time you do not feel comfortable or safe doing any of the tasks requested of you by the LifeFlight crew, please let us know ASAP. If you have any "non-urgent" questions about the information contained in this Safety Guide, feel free to call us at our base (902) 873-3657. If you have any urgent questions (mission related) on the information contained in this Safety Guide, call the EHS Communications Centre at 1-800 743-1334 or on "AMT Air", via the Trunked Mobile Radio (TMR) system.



Requesting EHS LifeFlight for Scene Response

Putting EHS LifeFlight on "STAND-BY"

Any Ground EMS agency (Fire, Police, Ambulance, etc.) may put Life-Flight on "STAND-BY" while you assess the patient. Here are some general guidelines to assist you in determining whether to put Life-Flight on stand-by.

- Patient has life or limb time-dependent injury and AMT may significantly decrease time to definitive care.
- Patient may require critical care or advanced Life Support beyond the capabilities of local ground-based pre-hospital practitioners.
- Critical care personnel and equipment may be needed to enhance care for the patient during transport.
- Weather or road conditions may delay patient access to the appropriate hospital.
- Extrication & ground transport time of greater then 30 minutes for critically ill/injured patients whose condition is likely to worsen in transport, and air transport will significantly reduce that time.

This can also be done by radio communication with EHS Communications Centre or by calling our 1-800 emergency phone number on the front card.

Be prepared to communicate the following to Dispatch:

- Requesters name, agency and call back number. Give the service, Unit #, and the level of medical training.
- Exact location of occurrence: use highway numbers and distance to closest town or Global Positioning System (GPS) coordinates.
- Number and ages of patients possibly needing air transport.
- Mechanism of injury or type of illness.
- Weather conditions at the scene: wind, lightning, visibility, freezing rain, etc.
- What other resources are on-scene at present.

After putting EHS LifeFlight on stand-by, scout out a good LZ while noting the hazards. During this time LifeFlight will quickly prepare the helicopter, file flight plan, etc.

"Launching" EHS LifeFlight

Once the need for LifeFlight has been established via the criteria listed on the next card, EHS Paramedics (P1, P2, P3, or CCP) at the scene must contact EHS Communications Centre to "LAUNCH" EHS LifeFlight. The Paramedics will then call-conference with the LifeFlight Medical Control Physician (MCP) via TMR, providing them with the following information.

Communicate the following to the EHS LifeFlight MCP:

- Patient age, pertinent medical findings, mechanism of injury, and current vitals.
- Pertinent past medical history.
- · Treatment given thus far and response.

The EHS LifeFlight MCP has the final say whether the LifeFlight crew shall continue with the mission or abort. The LifeFlight MCP will advise the Paramedics at the scene how to proceed with patient care and are able to provide "Patch Orders" as per EHSNS provincial protocols if needed. The EHS LifeFlight MCP will also designate a rendezvous LZ (scene, community helipad, airport or hospital helipad).



Indications For Paramedic Launch of LifeFlight To The Scene For Trauma

"Launch" LifeFlight if the patient is a victim of penetrating and/or blunt trauma, with one or more of the following indications present.

Anatomic Criteria:

- Amputation proximal to elbows or knees
- Two or more suspected long bone fractures
- Suspected spinal cord injury
- Severe facial fractures with possible airway compromise
- Burns > 15% Body Surface Area (2°, 3°, chemical or inhalation)
- ♦ Pediatric Trauma Score < 8</p>

Physiologic Criteria:

- Glasgow Coma Scale ≤ 12
- Respiratory rate < 10 or > 29 breaths per minute
- Shock, or significant hypotension (BP < 90 mmHg systolic)

Logistical Criteria:

 Simultaneous occurrence of three or more trauma patients, and/or local resources are overwhelmed with victims

Mechanism Criteria:

- Gunshot wound proximal to elbow or knees
- Any significant penetrating wound to the head, neck, chest, abdomen or groin

Other:

Paramedic Judgement

"Remote" Medical / Trauma Scene Response

Consider EHS LifeFlight if the patient is in a remote/isolated area where access/extrication is difficult or impossible by ground ambulance. If the 'Remote' patient presents with a significant traumatic injury or an acute medical condition, EMS should contact LifeFlight via EHS Communication Centre ASAP. The agency with the highest medical training at the scene may request LifeFlight to launch. They will be call-conferenced with the LifeFlight MCP first. Be prepared to provide the scene specifics and patient findings. The LifeFlight MCP will decide if the helicopter will be launched. While one member of ground EMS is talking with the LifeFlight MCP, have another member scout out a nearby LZ that meets LifeFlight requirements. Inform dispatch of the LZ location, hazards, and proximity to the scene. If no LZ can be found, inform LifeFlight. A suitable LZ may be identifiable from the air.

Daylight vs. Nighttime LZ Options

Possible Daylight LZ

Scene

LifeFlight Community Helipad Hospital Helipad Airport Possible Nighttime LZ

LifeFlight Community Helipad Hospital Helipad Airport (Night Rated)

LifeFlight will not land at a scene LZ after dusk or before dawn.



Landing Zone Set-up & Control

- Identify one person as the "Landing Zone Officer (LZO)"
- Identify people as "Security Officers"; keeping everyone back 100 ft from the LZ perimeter
- The LZ should be a firm, level surface 110 ft x 110 ft (35x35 Paces)
- The LZ should be free of overhead obstructions; trees, wires, signs, etc.
- Nearby obstructions must be identified; poles, wires, antennas, etc.
- Secure or remove debris/objects; branches, trash cans, stretcher sheets, etc. on and around the LZ.
- If the LZ is dusty, have the fire department wet it down.
- Turn all emergency vehicle lights on to help identify the LZ.
- Fire Departments should not lay out hoses. If they have already done so, they should be charged.
- Ensure that everyone stays back, including vehicles.
- The LZO should be approximately 50 ft. outside the LZ perimeter with their back to the wind.



- The closer to the scene the better, but remember that safety is of the utmost importance. Roads, highways, and nearby fields all make good LZ's, provided that there are no hazards.
- If setting up the LZ on a road or highway, set up road blocks approximately 500 meters on either side of the LZ. Ensure that traffic is stopped in both directions.
- The helicopter will be approaching / landing / taking off and departing into the wind. Therefore, the direction they came in before may be different this time.
- The final decision where and when to land will be with the pilots.
- Close vehicle doors, leave the stretcher in the ambulance and secure loose objects. Hats without chin straps will be gone!

Night time at pre-designated Landing Zones

- Use an EHS LifeFlight approved Lighting Kit. Place lights at each corner, shining at opposite florescent cone to identify LZ.
- * Point out hazards by shining lights on them, i.e. Poles, trees, wires, etc.
- * Do not shine lights directly at the helicopter or use flash bulbs.

Scene Pre-Landing Check List

Terrain / Security

- Firm & level surface
- Free of large rocks / bushes
- Dusty surface watered down
- Security around safety zone ready

Wind / Communications

- Wind direction identified by LZO
- LZO on right frequency
- LZO reviews hand signals

Obstacles / Hazards

- Street signs near LZ identified
- Vehicles out of LZ & Safety Zone
- Antennas / towers / trees identified
- outside Landing Zone

Wires / Road Blocked

- Wires identified near LZ
- Fences near LZ identified
- Road blocked 500 meters either side of LZ



Communications

Good communication between EHS LifeFlight, EMS (LZO, Fire, Police, Ground Paramedics, etc.), and the EHS Communications Centre is essential in providing high quality patient care, as well as maintaining safety for all involved.

The "AMT Air" talk group on the Trunked Mobile Radio (TMR) is the preferred mode of communication for EMS personnel to communicate with the LifeFlight crew. If you are in an area that is out of TMR network coverage, switch to the "AMT Sim" talk group. "AMT Sim" will operate as a simplex talk group allowing direct antenna to antenna communication. These are restricted talk groups that are programmed in all public safety service TMR portables and mobiles. Only those that are assisting LifeFlight on a mission are allowed to be on these talk groups. If you do not have access to a TMR radio, communication can be established via YHF FM
"Mutual Aid" or "Disaster/Air Med" simplex frequencies.

At least ten minutes prior to LifeFlight's arrival at a scene or community pad, the LZO should be on one of the talk groups or frequencies listed above. Initial contact should be made between the parties, confirming that the LZ is set up, controlled, hazards identified and if required, community pad illuminated. Upon notification of final approach, radio silence should be observed unless the LZO or EMS identify a safety concern or problem on or near the LZ. Both the LZO and EMS will be acting as extra sets of eyes warning the LifeFlight crew of possible hazards, wires and people that are too close to the LZ. If a safety concern is identified, notify LifeFlight immediately. LZO communication on final approach should be visual (as outlined below) due to the high noise level. Continuing to monitoring the radio as well.

The LZO should be wearing eye protection, bright colored clothing and be familiar with the following signals:

<u>Land here:</u> Both arms raised above head, facing LZ with wind at their back, standing approximately 50 ft. back from the LZ perimeter. This indicates to the pilots the location, that it is clear to land and the wind direction.

Abort landing: Both arms waving widely overhead. This indicates that the LZ is not clear and to abort the landing attempt.

All Clear: Thumb up on one hand with fist clenched. This indicates that the landing is good and the LZ remains clear of debris, people, etc.



Land Here



Abort Landing



All Clear

All parties will remain on one of these talk groups or frequencies anytime the rotors are turning, or until the rotors have come to a complete stop. During warm-up, take-off, and two minutes post take-off, the LZO and EMS personnel are to be on one of these talk groups or frequencies for the same reasons.

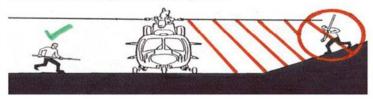


Safety Around The Helicopter

- Never approach or depart the helicopter unless guided by the LifeFlight crew. They will approach you first.
- When guided to approach the helicopter, only do so in the green areas.
 All other areas could be fatal!
- Never walk behind the helicopter because the tail rotor spins at such a fast rate it cannot be seen and therefore can be fatal.
- Never approach or depart from the front of the helicopter as this area is where the main rotor blades have the lowest clearance.
- Never run. Always walk and always keep your head down when approaching or departing the helicopter
- No backing up of emergency vehicles to the helicopter unless directed to by the pilot. If directed, keep the pilot in sight as he will be spotting you in order to avoid the ambulance hitting the rotor blades.



- On uneven ground, always approach and depart the helicopter on the downhill side. Never approach and depart on the uphill side!
- Remember to always carry IV's, objects or equipment at waist height.
 Nothing goes over your crouched head.
- If asked to assist the LifeFlight crew in carrying equipment to or from the helicopter, always ensure that objects are parallel to the ground – never upright.
- Please help EHS LifeFlight to ensure that no one smokes within 100 ft. of the helicopter. If you see someone smoking too close, please ask them to butt it out, well away from the Safety Zone.



Safety: A Team Approach

Nova Scotia Fire Service Nova Scotia Police Service EHS Communications Centre EHS Ground Ambulance Service

Nova Scotia Ground Search & Rescue EHS LifeFlight



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