

#### **Garage Top Helipad/Heliport Safety**





Dallas, Texas

Privileged and Confidential

#### **Objectives**

- Describe surrounding safety features of Dallas campus helipad
- Discusses personal safety around helipads
- Describe importance of helipad maintenance
- Discusses actions during an emergency (disaster) event
- Discusses roles and responsibilities of keeping landing zone safe



#### Helipad- Garage Top The Access Center monitors the Plano & Parkland helipads



Notice middle of screen.... people on pad



Dallas, Texas

#### **Helicopters You Might See**



4 blades, side entry



#### **UT Health**

Careflight









Dallas, Texas

### **Children's Aircraft**

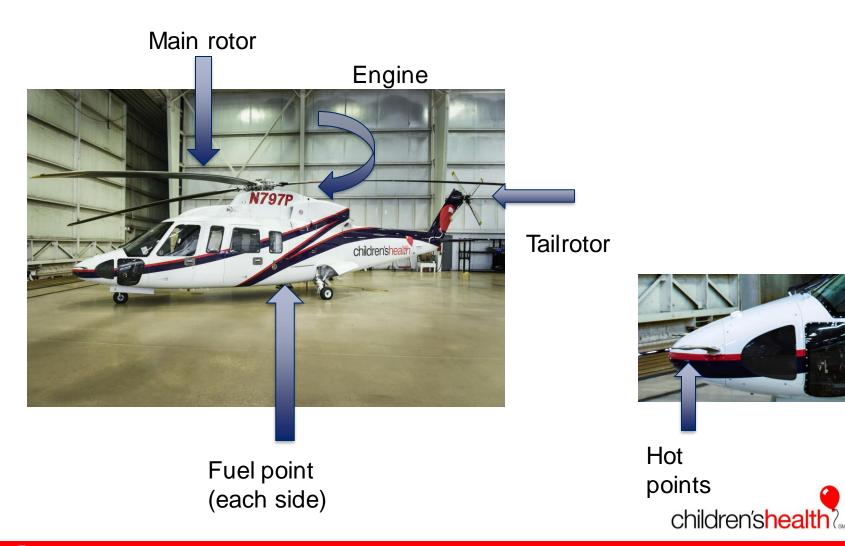


- S76 C++ Sikorsky—It is a very large aircraft
  - Length: 52'6"
  - From tip of main rotor blade to tip of tail rotor blade
  - Width: 44' (blades)
- Weight 11,700 pounds maximum, therefore can not land on many rooftop pads
- Our aircraft can hold <u>286.4 gallons</u> of Jet A fuel--important to know if there is any kind of fire, hard landing etc. To let 911 know

```
Jet A fuel is the most
common type of
commercial aviation fuel
```



#### Let's review the main outer parts of our aircraft





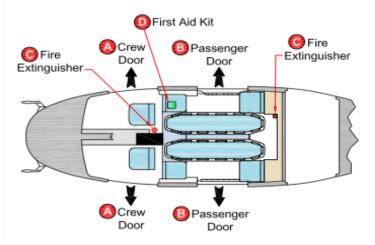
WHEN THE ROTOR IS TURNING ONLY ENTER AND EXIT THE AIRCRAFT FROM A 90 TO 45 DEGREE POSITION TO THE FUSELAGE (FROM THE SIDE)

NEVER APPROACH OR DEPART THE AIRCRAFT FROM THE REAR.



DANGER AREA(S)

2 CREW DOORS AND 2 PASSENGER DOORS ARE USED AS EMERGENCY EXITS



## Danger Areas Specific to Child ONE

#### Approach and Departure Areas

## **Emergency Equipment**

**CABIN LAYOUT** 

### Landing Zone Safety For Child One S76 C++

- Safety and security is of the utmost importance during landing and taking off for any aircraft.
- Child One operates with dual pilots for added safety
  - Majority of air medical crashes are due to pilot error, this redundancy decreases our risk
- This presentation is specifically for **Children's aircraft** 
  - Other helicopters have different approach zones and regulations
  - Concepts may be applied to all aircraft



## **Things to Think About**

- Height of the rotor disk can vary with winds, terrain and RPM (revolutions per minute)
- At operating RPM the tail rotor is not noticeable to the naked eye

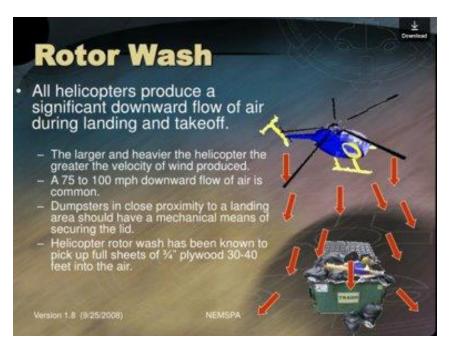
- Remember
  - Contact with the tail rotor is *fatal*!



Never walk around the back of the aircraft



#### **Basic safety**



- Remember: Debris can blow up, always wear eye protection, secure loose objects (badge, stethoscope etc), remove any ball caps, isolation gowns etc.
- Do not approach helicopter until motioned to do so by air medical crew member
- Always walk, never run around a helicopter
- DO NOT touch anything on the helicopter unless directed to do so by a crew member
- At night, Do not flash any bright lights at the aircraft



Dallas, Texas

10

## REMEMBER

## <u>Never</u> approach this aircraft from the front or rear!

It can be fatal.

## Why do they fly around the helipad before landing?

- High Reconnaissance
  - To determine direction and speed of the wind
  - Touchdown point
  - Suitability of LZ
  - Approach and departure axes
  - Determine any obstacles on approach or departure

Approach/departure path at the discretion of the pilots

- Low reconnaissance
  - Checking for wires, support structures etc
  - Final decision point to land or go around





#### Safety Guidelines-what you need to know

- Is the Landing Zone (LZ) confined from the public?
  - If not:
    - Is there someone assigned to rope off or secure the site? (at Dallas it is CMC security)
  - Is the staff trained for their own personal safety?



### **Types of loads/unloads**

- Hot
  - Blades are spinning, engines running

- Cold
  - Helicopter completely shut down, no rotation of blades



### **Standard Crew on Children's Helicopter**

Single patient configuration

**Dual patient** 

- 2 pilots
- 1 RN
- 1 RRT
- 1 Medic
- 1 Patient
- 1 Parent



- 2 RN's
- 2 RRT's
- 2 patients
- No parent or paramedic



### **Safety Guidelines**

- Secure all clothing, bedding and anything else that can become airborne—it can be sucked into the blades of the aircraft and endanger aircraft
  - Do not wear isolation gowns, hats, etc.
- Never point white light directly at the aircraft- it can blind the pilot & crew
  - Pilots may have (Night Vision Goggles)NVG's
  - This includes phones, media cameras, lasers or flash

photography







### **Safety Guidelines**

- All personnel should be at least 150 feet from helicopter during takeoff and landing (stay inside whenever possible)
  - Wear eye and ear protection if available
  - Turn your back to rotor wash
  - Stay inside when taking off or landing
- There should be no debris or trash on our around helipad
  - If you see debris on pad, and is safe to do so, pick up and dispose of properly
- All marking devices should be secured to the ground
- No smoking within 100 feet of aircraft
- All objects should be at least 150 feet from landing zone
  - Trees, vehicles, bystanders, etc.



## Safety Guidelines cont'd



- Do not approach the aircraft it can be dangerous
  - The pilot will motion when/if it is safe to approach the aircraft
- For patient's safety, keep the patient in the facility until the medical team arrives
- For safety reasons, the medical team will unload and reload *without assistance* from the referring facility
- If approaching aircraft after the blades have completely stopped, only approach from the sides
- The pilots will make eye contact and motion when it is safe to approach the aircraft on the helipad.



#### What are NOTAM's

- A communication to air medical community traffic shut down of pad, objects in flight path and any changes in the normal operations of the helipad.
- Type "NOTAM" in the Search menu

Provider Resources > Refer a Patient > Neonatal and Pediatric Specialty Transport Services > Helipads and Hazard Reporting

https://www.childrens.com/for-healthcareprofessionals/refer-a-patient/transfer-apatient

#### Children's Health<sup>s</sup>™ Transport Helipads and Hazard Reporting

A leader in neonatal and pediatric transport - with more than 30 years of experience.

#### **EMS NOTAM**

Date of Issue: 13 June 2022

Location: Children's Medical Center Plano, 7601 Preston Rd, TX 75024

- Date & Time: June 13 & 14, 2022 from 8:00 AM to 2:00 PM
- Location: Children's Medical Center Plano, 7601 Preston Rd, TX 75024
- Expected Duration: 6 hours
- Altitude at which UAS will operate: 100ft-400ft

#### Drone

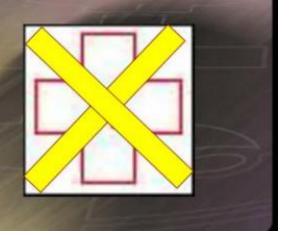
- Owner of UAS: Vaughn Construction
- FAA Registration: FA33P7ML4P
- Remote Pilot in command: Daniel Harris
  - 📞 281-731-2454
  - o Marris@vaughnconstruction.com
- UAS Operator: Daniel Harris
- Description of operations: We will be capturing videos and pictures of the ongoing tower work for progress documentation



## **CLOSING A HELIPAD**

 If for any reason you need to close a helipad landing area either temporarily or permanently.
 Place a large yellow X over the landing area to signal to all pilots not to land at this location.

> AC 150/5390-2B Section 409 e and figure 4-11



Pilots' discretion in emergency

Download

Version 1.8 (9/25/2008)

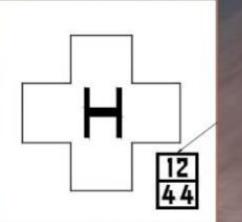
NEMSPA

#### What do the markings mean?



#### Max Weight

 Is indicated by the upper number and is in thousands of pounds.



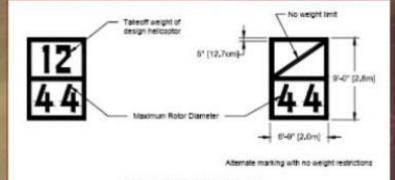
#### Max Rotor Diameter

 Is indicated by the lower number and is in feet.

Reference: AC 150/5390-2b

Figure 4-12

Version 1.8 (9/25/2008)

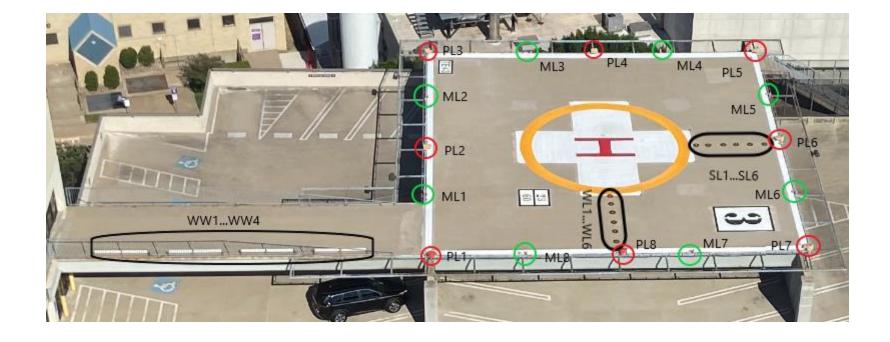


Detail A TLOF size/weight limitation box'



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## Dallas Garage Top Helipad

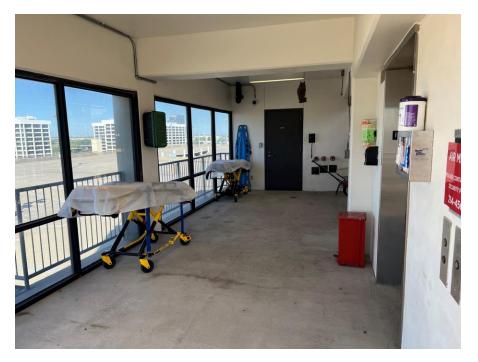


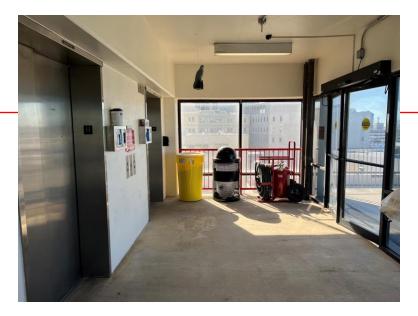


# Clear, concise signage in the area is a must

#### Response to the pad Stepping off the Elevators

Available items: 2 stretchers Ear protection PPE Cleaning supplies Biohazard bin







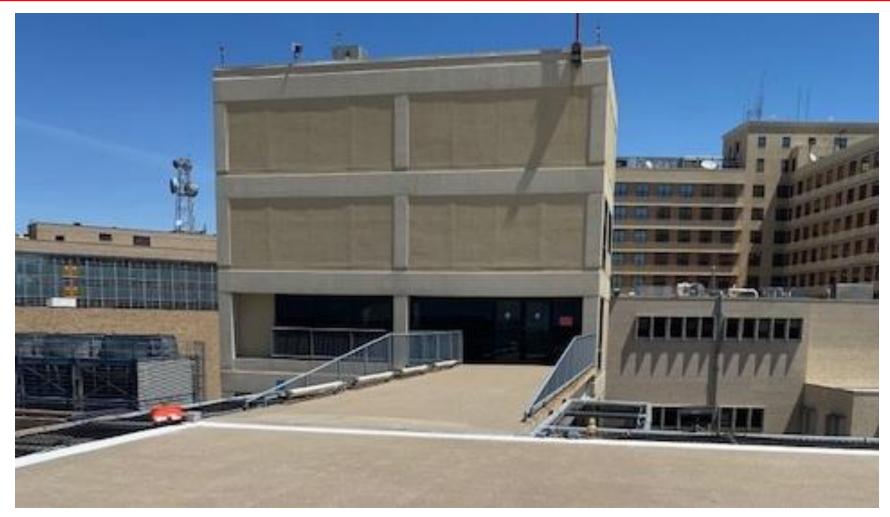


## Security responsibilities at Dallas for incoming & outgoing aircraft

- Access center will notify security of incoming aircraft via radio
- Security
  - will secure pad, stop traffic, monitor for public
  - Ensure the lighting on the pad is operational
  - Ensure of any needs are updated via the "Rounding at Children's App"
  - Ensure access to air medical crew both off the pad to the respective unit and return escort to the helipad



#### **Helipad Pathway**

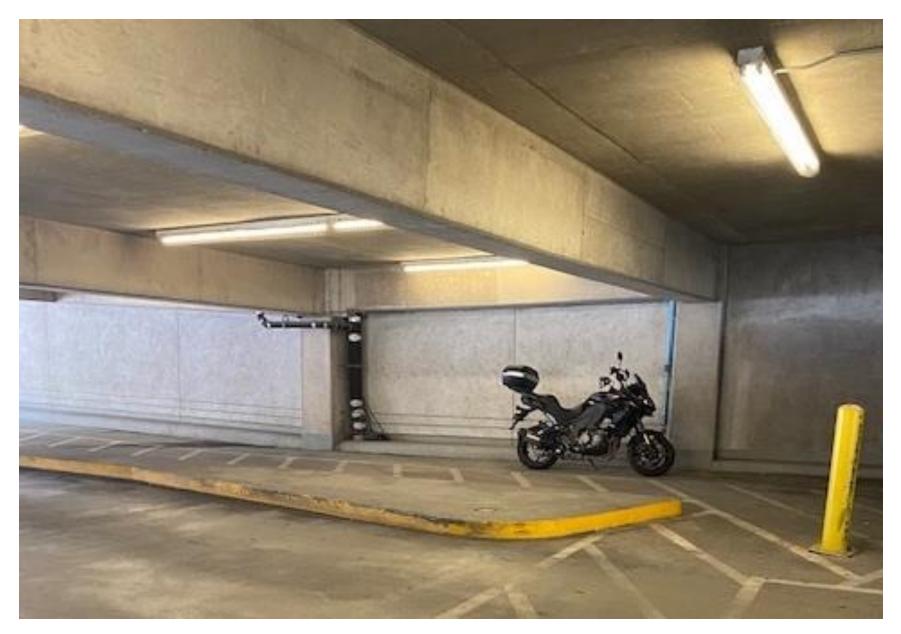








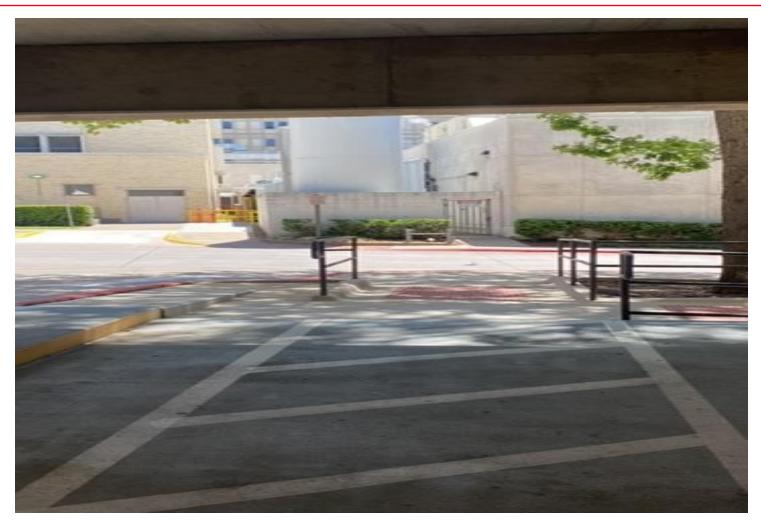




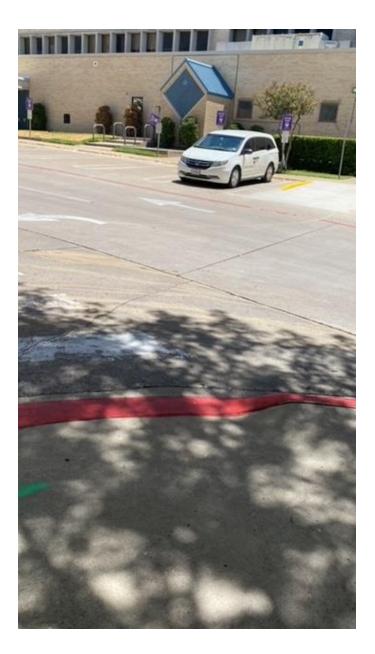
















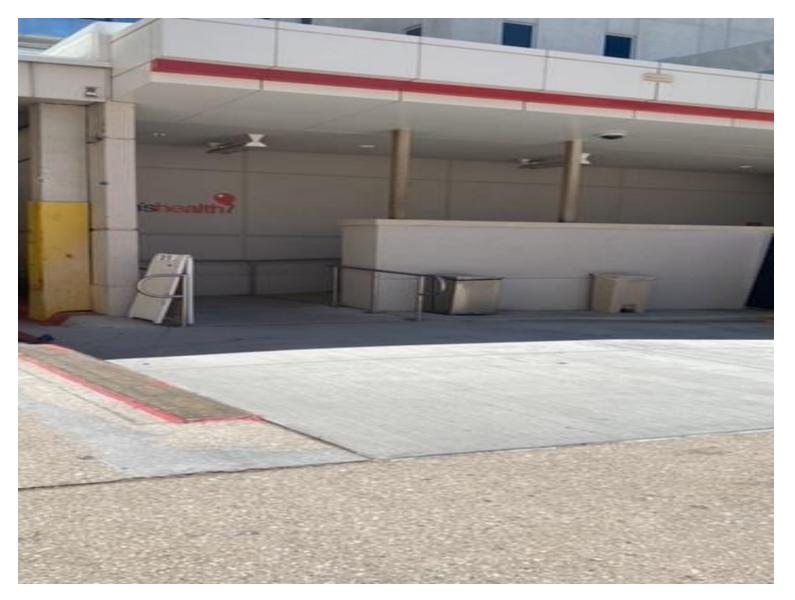




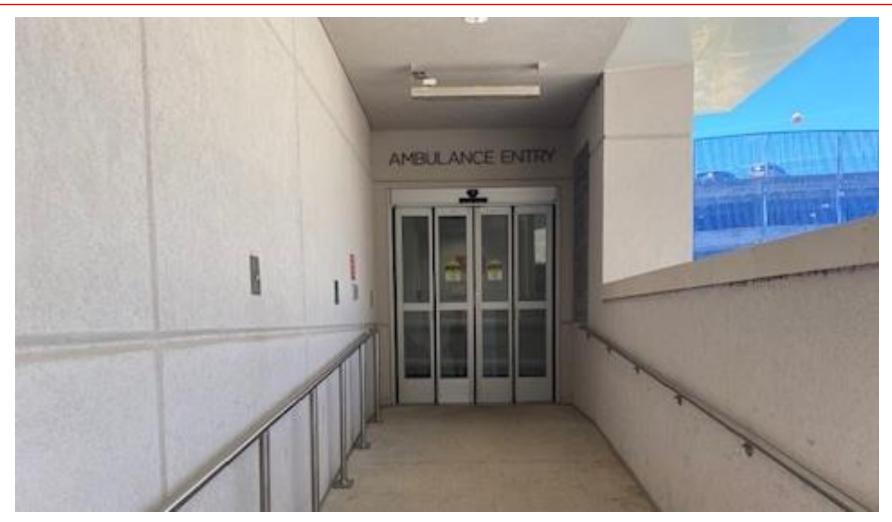














## Incoming Team requesting assistance on the Helipad

- Max of 3 additional people to assist
- Admin sup will be contacted by Access Center to assign people to respond to assist
- Security to communicate with pilots for safety of entire team
  - Security is the safety officer on the helipad and crowd control



#### **Operations and Maintenance**

- Daily Safety checks are maintained via the Rounding at Children's APP
  - Location Specific for the APP

Items addressed:

Helipad reflective paint Ground level lighting Marker Lighting Roof top light function Roof top cameras Windsock conditions Equipment in place and Clean Spill kit & fire extinguisher conditions

Notify engineering of any issues

Refer to EOC 1.10 Safe Use of the Children's Medical Center Dallas and Plano Campus Helistop/Helipads



#### **Helipad maintenance**



Rounding for Children's Health is a patient-centered cloud-based platform designed to improve patient satisfaction, quality outcomes, dynamic survey needs, and productivity across the care continuum.

Rounding for Children's Health serves as a valuable tool to our leaders and staff, offering insight into our patient's perception of care and providing data necessary to help improve the patient experience. The platform optimizes how we use, collect and report data, efficiently, inexpensively and in real-time.

With Rounding for Children's Health, we can take back those countless hours of calculating data and creating dashboards, to spend more time on patient care and improving the overall patient experience. Additionally, we are able consolidate data collection processes into a one-stop shop.

Just a few of the many benefits:

- · It is customizable, secure and easy-to-use
- · Works at any workstation from your phone, computer, and tablet
- · Seamless integration with existing hospital information systems
- · Provides findings regarding each survey
- · Collects real-time data and automates dashboard creation
- · Captures patient perception-of-care data during daily rounding in patient access points across the system
- · Automatically notifies care teams for service recovery if there is a perceived service issue
- · Provides a variety of surveys, audits, and other feedback needs

For all questions or request regarding Rounding for Children's Health, please contact: RoundingAdmin@childrens.com.

#### Information About Rounds+ Application

For Clients not integrated with their Active Directory Server, allowing them to login with their normal hospital credentials, the new URL will be: https://app.roundsplus.getwellnetwork.com

#### Login:

https://app.roundsplus.getwellnetwork.com/Authentication/Login/DHCSL

#### Rounds+ Login

Click on your location below to login. DALLAS



PLANO



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#### **Quick Links**

- COVID-19 Resources & Updates
- On Call Search
- Paging/Web Directory
- Human Resources .
- IS Help
- Learning and Leadership Institute
- Departments Directory
- Policy Tracker

View All 🕥

Ref

#### Resources

- Kronos
- Infor (formerly Lawson)
- Food Services
- Workspace
- Rounding for Children's Health
- Analytics Dashboards
- SafeLink

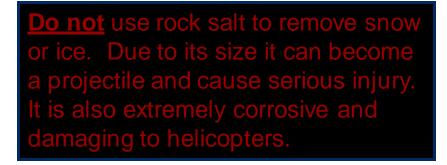
#### Helipad Daily Check Log

Reflective paint is in good condition	Coments:
. Ground Level Lighting is functional	- Coments:
Roof Top Lighting is functional	Coments:
Marker Lights are functional	Coments:
Building perimeter lights functional	Coments:
Walkway lights functional	Coments:
Elevators fully function correct	Coments:
Fire Extinguisher is present and pinned	Coments:
Spill Kit is present and sealed	Coments:
Windsock is in good condition	Coments:
Egress doors closed and not blocked	Coments:
Trash can is present and empty	Coments:
Biohazard trash can is present and empty	Coments:
Stretchers are present and covered	Coments:
Gloves M and XL available	Coments:
Stretcher covers available	Coments:
Santiwipes and hand sanitizer available	Coments:
All cameras are functioning. Check via call to the access center #6-0578	Coments:



## ICE AND SNOW REMOVAL

- To ensure maximum safety for the helicopter, it's crew and the patient, snow and ice should always be removed from the landing area prior to the helicopter's arrival whenever possible.
- Monitor often during in climate weather









## In the Event of a Disaster on or around the helipad...



- Consider these things:
  - Call 911 and 3-3333 to report
  - Rescue-patient, parent, crew members
    - Never approach until all moving parts have stopped on helicopter and pilots motion you forward
    - Break windows, if possible
    - Try to get doors open, if possible
  - HS 4.39 Helicopter Crash Emergency Response Plan
  - HS 4.17 Disaster Plan Internal/External Emergency Response Plan



#### **Disaster actions cont'd**

- Consider these things:
  - Call for help
  - Get fire extinguishers/fire suppression equipment
    - Concentrate resources on getting patient and crew out rather than fire containment
  - Notify proper authorities
  - When the emergency is over, file a SafeLink



#### Garage Top fire extinguisher

• PASS





#### **Any Questions**



• Call MOC (214) 803-4346



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#### Questions during the cornerstone module

- What type of fuel does the Children's helicopter use?
   Jet fuel A
- Who is responsible for securing the helipad prior to aircraft landing or taking off?
  - Security
- When do you approach a helicopter
  - Only after eye contact and at the direction of the pilot
- Where can you find a fire extinguisher?
  - In the vestibule
  - What do you call if there is a 'hard landing'
  - Code yellow, 3-3333, 911
  - Refer to policy HS 4.39 Helicopter Crash Emergency Response Plan

And HS 4.17 Disaster Plan - Internal/External Emergency Response Plan



#### **Team members next step**

 Sign up for hands on training in Cornerstone for available dates/times after completing the modules

