2019 Neurotrauma Symposium

Patient Experience: Chris
Barr
55 year-old male
C4 Asia D quadriplegic

Feb 12, 2017



Surfer Rushed To Hospital Following Ocean Beach Rescue



CLICK TO SEE

The City > San Francisco News > Bay Area > Breaking News

Surfer suffers critical injuries at Ocean Beach

By Bay City News on February 12, 2017 7:16 pm

A surfer suffered critical injuries Sunday afternoon at San Francisco's Ocean Beach, fire officials

Bystanders rescued the surfer, a 45-year-old man, at around 4 p.m

The man was taken to a trauma center, according to fire officials

Trending Articles

Mayor Breed appoints first openly L to lead SFFD

surfer suffered critical injuries Sunday afternoon at San Francisco's Ocean Beach, fire officials said.

Bystanders rescued the surfer, a 45-year-old man, at around 4 p.m.

he w

ers arrived, they transported ritical condition. No update

Surfer injured, rescued at Ocean Beach



By KEITH BURBANK: Bay City News © February 12, 2017



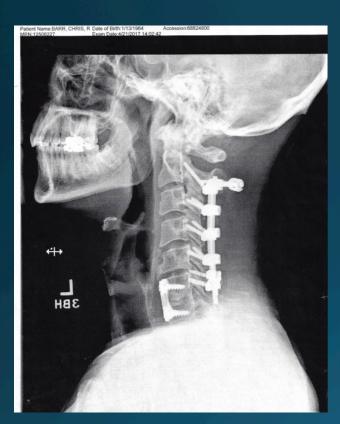


Feb 13, 2017

Zuckerberg San Francisco General Hospital

- C4-C7 fracture per history s/p C3 to 5 laminectomy and C2-6
- prevertebral soft tissue swelling c1-5
- disruption ALL at C3/4
- 3mm retrolisthesis C3/4
- C3-4 cord edema
- C4-7 spinous process fracture with tissue edema and hemorrhage
- nondisplaced ant/sup fracture of vertebral bodies T3-T6 with edema
- R first rib fracture

1 plate / 3 rods / 15 screws







Prognosis @ 1 week

	Prediction of	f recovery accord	ding to AIS	impairment	scale
--	---------------	-------------------	-------------	------------	-------

AIS grade at admission	A	В	C	D
First examination at 72 h ¹⁰	One-ye	ear follo	w-up AI	S grade
A	84%	8%	5%	3%
В	10%	30%	29%	31%
С	2%	2%	25%	67%
D	2%	1%	2%	85%

Ventilator Weaning @ 3 weeks



Evaluation @ 1 month

Strength/manual muscle test:

Left	UPPER EXTREMITIES	Right
0/5	Shoulder Flexion	0/5
0/5	Shoulder Extension 0/5	
0.15	5" - 51 · · · · · · · · · · · · · · · · · ·	
0/5	Elbow Flexion 0/5	
0/5	Elbow Extension	0/5
0/5	Wrist Flexion	0/5
0/5	Wrist Extension	0/5
0/5	Finger Flexion	0/5
0/5	Finger Extension	0/5
Left	LOWER EXTREMITIES	Right
0/5	Hip Flexion	0/5
1/5	Hip Extension 1+/5	
0/5	Hip Abduction	0/5
0/5	Knee Flexion	1+/5

Physical Therapy signed by (P.T.) at 3/11/2017 1:47 PM

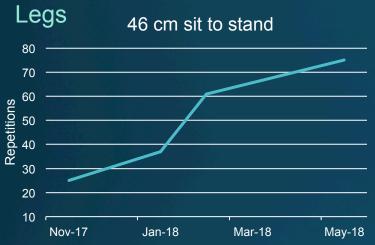
Prognosis @ 1 month

AIS grade at admission	A	В	C	D
First examination at 30 days 11	One-ye	ear follo	w-up AI	S grade
1	95%	0	2,5%	2,5%
3	0	53%	21%	26%
C	1%	0	45%	54%
D	2%	0	0	96%

My Recovery Timeline

When	Where	What
0-2 weeks	ZSFG	Intubation, surgery
2-4 weeks	Kaiser Walnut Creek	Stabilization, extubation
1-3 months	KFRC Vallejo	PT/OT - Spontaneous recovery begins with limited movement of toes, legs; fingers, arms
3-6 months	Home	PT/OT - Recovery continues culminating with return of secondary functions at 6 months
Month 7-10	Home	Recovery plateaus - Apply to Mayo Clinic stem cell trial for spinal cord injury
Month 11	Mayo Clinic , Rochester, MN	Receive stem cells
Year 1-3	Home / Mayo Clinic	PT/OT - Physical evaluation

Stem Cell Injection: January 2018

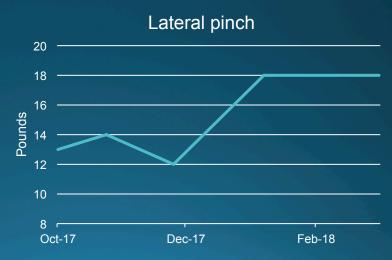


Gross grip



Feb-18





Dec-17

Hands

Oct-17

Pounds

Best Practices?

- I. The "Big Ugly..."
- II. Acute care
 - Blood Pressure
 - Decompression Timing
 - Surgery Timing

III. Chronic Care

- PT / OT
- Proprioceptive Neuromuscular Facilitation (PNF)

IV. Clinical Interventions

- Neuro-regeneration (stem cells)
- Neuro-protection (peptides)
- Neuro-modulation (stimulation)