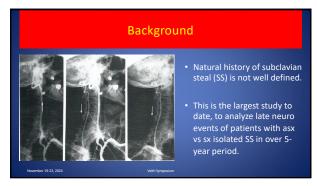




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**Patient Population and Methods** 

- SS detected during routine CDUE over a 2-year period were analyzed (Jan 1, 2017 – Dec 31, 2018)
- Late neuro events: TIA/stroke (hemispheric anterior cerebral vs posterior stroke) were recorded for isolated SS (no associated carotid disease).
- Kaplan Myer analysis for freedom from stroke for isolated sx and asx SS pts and for pts w/ combined SS and carotid disease was done.

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Results

• 285 SS were detected during 11,762 CDUE (2%)

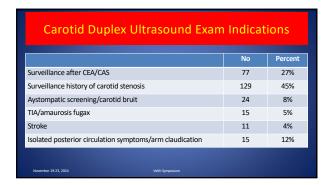
• 191 had retrograde vertebral flow (complete steal)

• 94 had bidirectional flow (partial steal)

• 64% left sided and 33% right sided

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**Associated Carotid Pathology** Percent Carotid pathology by Normal >50% stenosis 170 60% All carotid arteries (R&L) Normal 115 40% 50%-<70% 42% 70%-99% 35 12% Occluded 14 5%

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Isolated Subclavian Steal

• 115 (40%) had isolated SS:

-85 → Asx

-30 → Sx (Post. Circulation/arm claudication)

Mean Arm Pressure Differential/Mean Systolic Pressure/Data

• Mean arm pressure differential was 32.4mmHg for asx SS

• Mean arm pressure differential was 31.8 for sx pts for whole series (p=0.537)

• Mean systolic pressure for patient with retrograde flow was 105mmHg vs 129mmHg for bidirectional flow and 126.8 for normal antegrade flow (p > 0.0001)

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## Type of Intervention in the Whole Series • 51 interventions were done for sx patients: – 27 subclavian PTA/Stent – 5 carotid subclavian bypasses, (for claudication/posterior circulation symptoms) – 19 CEA for associated carotid disease.

• At a mean follow-up of 34 months (range of 1-79 months):

– 10 late strokes were noted in the whole group

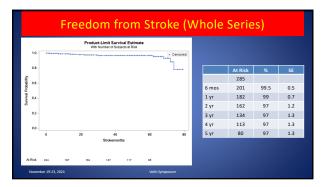
• 115 patients with isolated SS (85 were initially asx and 30 sx):

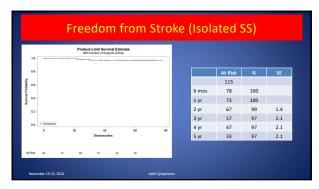
– 1 TIA and 2 late strokes in asx SS group, both were not posterior strokes (1 lacunar hypertensive stroke and 1 cardiac emboli)

• No strokes in sx SS group.

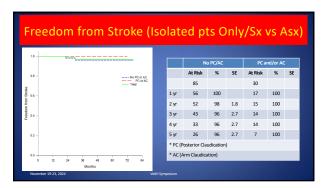
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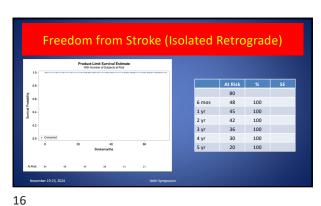
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Conclusion

SS in patients undergoing CDUE is rare (2%)

The majority were asx.

Isolated SS had relatively benign course with no posterior circulation strokes up to 5 years.



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