**Statistics**

1. **75** total Patients initially collected

2. **52** remaining Patients after screening for inclusion/exclusion criteria

**1** patient excluded because of a tumor diagnosis

**13** patients with limited or absent follow up (*Rose Skerpac was retained but had follow up only at 6 weeks and again at 2 years*)

**8** patients underwent brooks style fusion

**1** patient underwent multiple concomitant additional cervical spine procedures

3. **37** patients underwent TA (of which **6** were unilateral due to aberrant anatomy or insufficient bone stock)

**16** DJD

**3** Rheumatoid instability

**15** Dens Fracture or Non-union

**3** Atlantoaxial instability

4. **15** patients underwent GH (of which **2** were unilateral due to aberrant anatomy or insufficient bone stock)

**1** DJD

**2** Rheumatoid instability

**9** Dens Fracture or Non-union

**1** Atlantoaxial instability

**1** Os Odontoideum

**1** C1 Arch Fracture

5. **49** cases used ICBG autograft, **2** cases used allograft, and **1** case used rib autograft

Within the ICBG autograft group, **25** grafts were held with titanium cable, **23** with gallilie suture, and **1** with neither

6. **3** patients had concomitant C3-C7 laminoplasty

7. Average age for all included patients was **61.17**

Average age for TA patients was **60.76**

Average age for GH patients was **62.20**

8. **8** patients were smokers at the time of surgery; **44** patients were non-smokers or had quit at least 6 months prior to surgery

**5** TA patients were smokers at the time of surgery

**3** GH patients were smokers at the time of surgery

9. Average length of hospitalization for TA patients was **3.43** days

Only **1 of 37** TA patient required ICU management for **2** days

10. Average length of hospitalization for GH patients was days **3.53** days

Only **3** **of 15** GH patients required ICU management for **1, 3, and 1** days

11. Complications occurred in **6** TA patients (**16.21%**) and **1** GH patient (**6.67%**)

**1** TA patient with Aspiration pneumonia after discharge

**1** TA patient with hardware loosening and eventual asymptomatic non-union

**1** TA patient with self-limiting wound drainage and eventual asymptomatic non-union (smoker)

**1** TA patient with infection requiring I&D and removal of sub-laminar wires, eventual asymptomatic non-union

**1** TA patient with graft malposition/migration requiring immediate post-operative reoperation; eventual hardware failure and asymptomatic non-union (smoker)

**1** TA patient with ICBG donor site infection requiring I&D; revision for symptomatic non-union

**1** GH patient with acute renal failure and hypotension requiring pressor use

12. XR was available for all **52** patients in the series

13. CT was available for **25 of the 37** TA patients and for **12 of the 15** GH patients

14. Surgery were performed by 4 surgeons at Emory University (3 Orthopaedic Spine Surgeons and 1 Neurosurgeon)

15. Surgery was performed between 6/18/2001 & 11/21/2011

16. Average time of follow up for the 52 patients was **57.9 weeks** (range from 8 weeks to 208 weeks)

17. Average time to XR fusion (score 1) for TA patients based on spine review team was **34.63** weeks

18. Average time to XR fusion (score 1) for GH patients based on spine review team was **32.5** weeks

19. Average time to CT fusion (score 1a;2a;3\_) for TA patients based on spine review team was **28.5** weeks

20. Average time to CT fusion (score 1a;2a;3\_) for GH patients based on spine review team was **36.4** weeks

21. Average time to XR fusion (score 1) for TA patients based on surgeon was **22.85** weeks

22. Average time to XR fusion (score 1) for GH patients based on surgeon was **25.78** weeks

23. Average time to CT fusion (score 1a;2a;3\_) for TA patients based on surgeon was **20.93** weeks

24. Average time to CT fusion (score 1a;2a;3\_) for GH patients based on surgeon was **23.2** weeks

Cobb angle and interspinous distance measurements/averages?

Cost?