Consensus Items: Prevention of Wrong Level Surgery

NEWYORK SPINE CLUB RECOMMENDATIONS

Pre-op

Intra-op

Unclear of Level

- Use standard vertebral numbering (SDSG)
 - Exception: Use C2 (axis) for cervical level counting
- Document the operative plan, including levels, in the pre-op note
- Discuss aberrant anatomy and vertebral level selection at indications conference

- ☐ Communicate the pre-op plan, including levels, to OR staff in time-out
- Localize with opaque marker after exposure at level of the pedicle
- Obtain ideal intra-operative images
 - ☐ Region of interest in center
 - ☐ Remove extraneous metal
 - ☐ Include a known anatomical landmark (must be **visible** and **consistent** with preop imaging)
 - Orthogonal view
 - Radiopaque marker proximal to the LIV
- Consider a radiographic time-out to obtain team consensus regarding the vertebral levels
- Consider consulting another surgeon or radiologist if levels remain unclear

- ☐ If uncertain of levels,

 optimize and/or repeat

 intra-operative

 imaging with

 fluoroscopy or portable

 X-ray
- ☐ Consult another spine surgeon or radiologist if levels remain unclear

 Note: An opaque marker at the level of the skin should NOT be relied upon