MEDICAL POLICY

USE OF BACK SUPPORTS AND BRACES OF
TYPE TLSO L0450-L0492 & L0625-L0640

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POLICY

• THE USE OF THE BRACE TYPE TLSO L0450-L0492 & L0625-L0640 MAY BE USED ONLY FOLLOWING A SURGICAL FUSION, COMPRESSION FRACTURE, OR A DIAGNOSED SPONDYLOTHESIS.

• THE USE OF A LUMBAR BRACE POST-SURGICAL FUSION MAY BE OF BENEFIT FOR STABILIZATION, PREFERABLY WITH A STANDARD, NON-CUSTOM BRACE, BUT HAS NO EVIDENCE BASED VALUE IN THE STANDARD SUBACUTE OR CHRONIC BACK PAIN.

• THE USE OF A SIMPLE OVER-THE-COUNTER BACK SUPPORT MAY HAVE A BENEFICIAL EFFECT ON NON-SPECIFIC SUB-ACUTE AND CHRONIC LOW BACK PAIN IN CONJUNCTION WITH OTHER MODALITIES INCLUDING EXERCISE THERAPY, PHYSICAL THERAPY.

• NOT RECOMMENDED FOR PREVENTION.

SUPPORTING DOCUMENTATION

POST FUSION SUPPORTS/BRACES

Under study, but given the lack of evidence supporting the use of these devices, a standard brace would be preferred over a custom post-op brace, if any, depending on the experience and expertise of the treating physician. There is conflicting evidence, so case by case recommendations are necessary (few studies though lack of harm and standard of care). There is no scientific information on the benefit of
bracing for improving fusion rates or clinical outcomes following instrumented lumbar fusion for degenerative disease. Although there is a lack of data on outcomes, there may be a tradition in spine surgery of using a brace post-fusion, but this tradition may be based on logic that antedated internal fixation, which now makes the use of a brace questionable. For long bone fractures prolonged immobilization may result in debilitation and stiffness; if the same principles apply to uncomplicated spinal fusion with instrumentation, it may be that the immobilization is actually harmful. Mobilization after instrumented fusion is logically better for health of adjacent segments, and routine use of back braces is harmful to this principle. There may be special circumstances (multilevel cervical fusion, thoracolumbar unstable fusion, non-instrumented fusion, mid-lumbar fractures, etc.) in which some external immobilization might be desirable. (Resnick, 2005)

LUMBAR SUPPORTS/BRACES
Not recommended for prevention. Recommended as an option for treatment. See below for indications.

Prevention: Not recommended for prevention. There is strong and consistent evidence that lumbar supports were not effective in preventing neck and back pain. (Jellema-Cochrane, 2001) (van Poppel, 1997) (Linton, 2001) (Assendelft-Cochrane, 2004) (van Poppel, 2004) (Resnick, 2005) Lumbar supports do not prevent LBP. (Kinkade, 2007) A systematic review on preventing episodes of back problems found strong, consistent evidence that exercise interventions are effective, and other interventions not effective, including stress management, shoe inserts, back supports, ergonomic/back education, and reduced lifting programs. (Bigos, 2009) This systematic review concluded that there is moderate evidence that lumbar supports are no more effective than doing nothing in preventing low-back pain. (van Duijvenbode, 2008)

Treatment: Recommended as an option for compression fractures and specific treatment of spondylolisthesis, documented instability, and for treatment of nonspecific LBP (very low-quality evidence, but may be a conservative option). Under study for post-operative use; see Back brace, post operative (fusion). Among home care workers with previous low back pain, adding patient-directed use of lumbar supports to a short course on healthy working methods may reduce the number of days when low back pain occurs, but not overall work absenteeism. (Roelofs, 2007) Acute osteoporotic vertebral compression fracture management includes bracing, analgesics, and functional restoration. (Kim, 2006) An RCT to evaluate the effects of an elastic lumbar belt on functional capacity and pain intensity in low back pain treatment, found an improvement in physical restoration compared to control and decreased pharmacologic consumption. (Calmels, 2009) This RCT concluded that lumbar supports to treat workers with recurrent low back pain seems to be cost-effective, with on average 54 fewer days per year with LBP and 5 fewer days per year sick leave. (Roelofs, 2010) This systematic review concluded that lumbar supports may or may not be more effective than other interventions for the treatment of low-back pain. (van Duijvenbode, 2008) For treatment of nonspecific LBP, compared with no lumbar support, an elastic lumbar belt may be more effective than no belt at improving pain (measured by visual analogue scale) and at improving functional capacity (measured by EIFEL score) at 30 and 90 days in people with subacute low back pain lasting 1 to 3 months. However, evidence was weak (very low-quality evidence). (McIntosh, 2011)

REFERENCES
1. ODG Chapter on Low Backs/ 2013
2. Resnick, J, Neuro Spine Journal 2005
3. Calmels, DK Neuro Journal 2009, June