



Burlingame Family Health

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To Whom It May Concern:

As the treating Physician for Troy Wilkes for the past 8 years, I have seen his ballistic mobility impairment progressively get worse. In 1997 after losing 2 jobs, Mr. Wilkes demonstrated his need for a handicap plate on his motorcycle to be able to park close enough to walk to his job. Subsequently under my care he has proactively done the following to limit stress in his pelvic and sacroiliac joint fractures:

1. Moved to residences with elevators instead of stairs.
2. Got rid of his car with manual transmission for an automatic transmission.
3. Limited ballistic activities (walking) by using non-ballistic movement (skating).
4. Established a wheelchair standard of use for skates in public accommodations.
5. Successfully used skates, while working, to do his job without any problems.
6. San Mateo Legal Aid Society requested reasonable accommodations from BART.

Furthermore, Mr. Wilkes has demonstrated his problems with wheelchairs and scooters backed by the testimony of a Biomechanics Expert, Andrew Mahar, MS, who has stated:

I feel that his [Troy's] use of skates to reduce pain and increase mobility has a credible biomechanical basis ... the loads directed to the pelvis are less with the horizontal propulsion involving skates as compared to the vertical propulsion associated with walking/running ... in the case of pelvic injuries, this [wheelchair use] is an inappropriate method of transportation. When using a wheelchair, the entire mass of the upper body (which accounts for almost 70% of total body mass) applies a direct and constant load through the sacroiliac joint into the pelvis. In this case, the loads are not impulsive but rather constant over time. The use of a wheelchair also provides little ability to alleviate these forces ... After considering the biomechanics of skating, walking or using a wheelchair, I feel that the skating option provides the only reasonable method for limiting pain and increasing mobility.

I would also like to retract any conclusions that were drawn from correspondence with Mathew Sieger in 2001. Mr. Wilkes has provided adequate documentation to show he has progressively gotten worse and now uses his skates as a prosthetic device to correct his ballistic mobility impairment.

Sincerely,

Susan Fullemann
Susan Fullemann, MD

