1. Date of Goniometry: (yyyy-mm-dd)

Laterality: Left or Right (if applicable)

Indicate the range of motion by degree:

1. Shoulder:
2. Elbow:
3. Wrist:
4. Fingers:
5. Toes:
6. Neck:
7. Hip:
8. Knee:
9. Ankle:
10. Torso:

## General Instructions

This form contains data elements that are collected to measure the range of motion at a join.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

Assess passive range of motion (ROM) for various joints—knee extension, ankle dorsiflexion, elbow extension, wrist extension measured to nearest 5 degrees using standard goniometry techniques.

* Requires assessment by a trained person (such as a physical therapist)
	+ Estimated time per person is 5 minutes
	+ Need a goniometer
	+ NOT validated for Congenital Muscular Dystrophy (CMD) but recommended for use; only validated for Duchenne Muscular Dystrophy (DMD)
	+ Limitations—requires a trained specialist
	+ Advantages—can measure rate of progression of contractures in CMDs & response to interventions

## References

Panda et al. Reliability of goniometric measurements in patients with DMD. Physical Therapy. 1985.

Muscle Nerve. 2013 Jul;48(1):32-54. doi: 10.1002/mus.23807. Epub 2013 May 16.
The cooperative international neuromuscular research group Duchenne natural history study--a longitudinal investigation in the era of glucocorticoid therapy: design of protocol and the methods used.

McDonald CM1, Henricson EK, Abresch RT, Han JJ, Escolar DM, Florence JM, Duong T, Arrieta A, Clemens PR, Hoffman EP, Cnaan A; Cinrg Investigators.