SUPPLEMENTARY 3. Comparative Analysis of the Present Series and Prior Wiedemann-Steiner Patient Cohorts.

Neurological features	**Current study**	**Yeter et al.** [16]	**Lin et al.**[4]	**Sheppard et al.** [5]	**Li et al.**[14]	**Baer et al.**[6]
Intellectual disability	**100%**	**87%**	**73%**	**97%**	**93%**	**100%**
Developmental delay	**69%**	**100%**	91%	N/A	63%	80%
Language delay	56%	93%	N/A	N/A	86%	80%
Hypotonia	57%	47%	45%	72%	N/A	58%
Autistic features	67%	27%	9%	21%	6%	6%
Aggressive behavior	60%	N/A	0%	33%	25%	13%
Hyperactivity	53%	N/A	18%	44%	13%	N/A
Seizure	25%	13%	9%	20%	N/A	13%
Abnormal corpus callosum	23%	14%	50%	14%	N/A	14%
Abnormal myelination	15%	0%	30%	14%	N/A	3%
Dysmorphic features	**Current study**	**Yeter et al.** [16]	**Lin et al.**[4]	**Sheppard et al.** [5]	**Li et al.**[14]	**Baer et al.**[6]
Short stature	**53%**	**60%**	**91%**	**58%**	**75%**	**47%**
Microcephaly	**50%**	**40%**	**9%**	**35%**	**50%**	33%
Synophrs	50%	87%	9%	N/A	6%	N/A
Thick eyebrows	50%	80%	55%	76%	38%	79%
Hypertelorism	56%	87%	27%	67%	81%	66%
Small palpebral fissures	56%	67%	27%	69%	N/A	72%
Downslanted palpebral fissures	63%	67%	27%	50%	75%	58%
Long eyelashes	69%	93%	55%	71%	94%	75%
Wide nasal bridge	75%	N/A	45%	63%	63%	71%
Broad nasal tip	50%	N/A	18%	64%	N/A	N/A
Low-set ears	38%	N/A	55%	N/A	38%	50%
Thin upper lip	56%	67%	27%	29%	50%	75%
High-arched palate	57%	60%	27%	N/A	75%	N/A
Early/premature tooth eruption	40%	0%	N/A	N/A	N/A	6%
Dysmorphic tooth	38%	0%	N/A	1%	N/A	N/A
Malocclusion	44%	0%	N/A	15%	N/A	N/A
Supernumerary teeth	19%	7%	N/A	5%	N/A	N/A
Missing tooth/teeth	25%	27%	N/A	3%	N/A	N/A
Broad first digits	47%	N/A	9%	22%	N/A	N/A
Clinodactyly	40%	60%	N/A	N/A	25%	21%
Sacral anomaly	36%	53%	18%	51%	25%	32%
Hypertrichosis cubiti	44%	40%	36%	57%	44%	61%
Hypertrichosis of the back	56%	N/A	64%	67%	75%	68%
Hypertrichosis of the lower limbs	63%	N/A	45%	45%	50%	38%
Delayed bone age	30%	N/A	17%	14%	**70%**	**33%**
Advanced bone age	**10%**	**N/A**	**17%**	**24%**	**20%**	**47%**
Other clinical features	**Current study**	**Yeter et al.** [16]	**Lin et al.**[4]	**Sheppard et al.** [5]	**Li et al.**[14]	**Baer et al.**[6]
Ptosis	**50%**	**40%**	**N/A**	43%	63%	16%
Strabismus	44%	53%	9%	38%	21%	22%
Astigmatism	25%	N/A	9%	20%	N/A	6%
Hearing loss	7%	N/A	18%	3%	N/A	N/A
T&A	25%	N/A	N/A	17%	N/A	N/A
Growth hormone deficiency	50%	33%	33%	19%	100%	50%
Structural congenital heart disease	14%	36%	57%	29%	19%	36%
Failure to thrive	56%	80%	100%	68%	81%	50%
Feeding difficulties	25%	80%	27%	66%	31%	65%
Constipation	25%	53%	18%	64%	N/A	9%
Renal anomaly	13%	53%	40%	29%	N/A	30%
Uterine or testicular anomaly	25%	7%	25%	17%	N/A	N/A
Recurrent infections	40%	N/A	36%	26%	N/A	N/A

N/A, not applicable.