

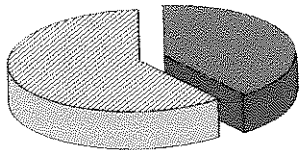
General Evaluation

Name: **Simon Baker** Session: **24/01/2012 16:44:17** Windowing: **None**
 ID: **MR100** Involved: **Right** Protocol: **Isokinetic Bilateral**
 Birth Date: **26/08/1967 (M/d/yyyy)** Clinician: **Neasa Canavan MISC P MSc** Pattern: **Extension/Flexion**
 Ht: **180** Referral: **Jason Kenny/ PESS/ Arena** Mode: **Isokinetic**
 Wt: **90.0** Joint: **Knee** Contraction: **CON/CON**
 Gender: **Male** Diagnosis: **right amputee** GET: **No Gravity Correction**

		EXTENSION 60 DEG/SEC			FLEXION 60 DEG/SEC			EXTENSION 180 DEG/SEC			FLEXION 180 DEG/SEC		
		UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT
		LEFT	RIGHT		LEFT	RIGHT		LEFT	RIGHT		LEFT	RIGHT	
# OF REPS (60/60):	5												
# OF REPS (180/180):	10												
PEAK TORQUE	N-M	240.3	144.3	40.0	109.0	76.9	29.5	142.6	114.6	19.6	87.5	66.2	24.3
PEAK TQ/BW	%	267.3	160.5		121.2	85.5		158.7	127.5		97.4	73.7	
MAX REP TOT WORK	J	269.5	170.5	36.7	146.4	92.7	36.7	185.3	146.2	21.1	131.0	84.3	35.7
COEFF. OF VAR.	%	2.1	4.8		10.9	7.1		4.2	6.9		3.2	6.3	
AVG. POWER	WATTS	144.2	84.8	41.2	71.4	46.0	35.6	235.3	184.2	21.7	158.9	98.0	38.4
TOTAL WORK	J	1243.3	808.3	35.0	688.4	431.6	37.3	1677.7	1344.9	19.8	1246.0	752.4	39.6
ACCELERATION TIME	MSEC	20.0	110.0		30.0	70.0		40.0	60.0		90.0	110.0	
DECELERATION TIME	MSEC	50.0	170.0		60.0	110.0		190.0	120.0		180.0	120.0	
ROM	DEG	108.4	104.9		108.4	104.9		107.9	104.6		107.9	104.6	
AVG PEAK TQ	N-M	234.9	137.4		99.1	72.6		134.2	103.7		84.0	60.6	
AGON/ANTAG RATIO	%	45.4	53.3	G: 61.0				61.4	57.8	G: 72.0			

EXTENSION

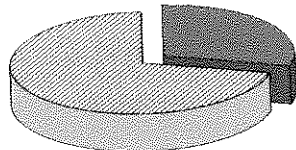
Deficit
40.0 %



60 DEG/SEC

FLEXION

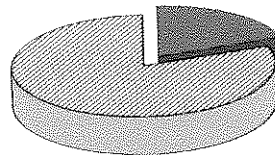
Deficit
29.5 %



60 DEG/SEC

EXTENSION

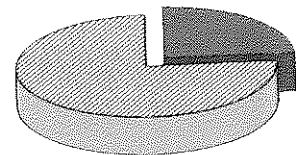
Deficit
19.6 %



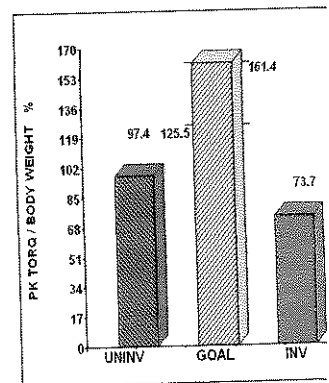
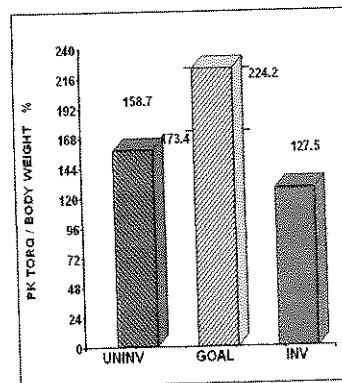
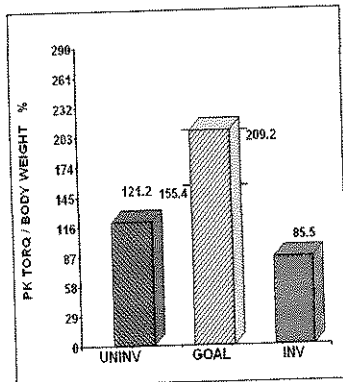
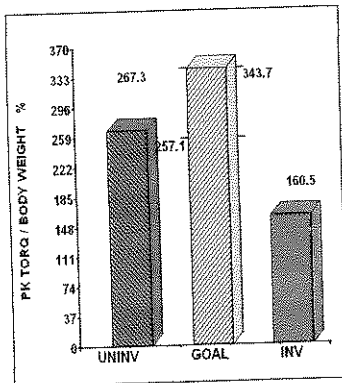
180 DEG/SEC

FLEXION

Deficit
24.3 %



180 DEG/SEC



Comments:

PEAK TORQUE: Highest muscular force output at any moment during a repetition. Indicative of a muscle's strength capabilities.
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MAX REP TOT WORK: Total muscular force output for the repetition with greatest amount of work. Work is indicative of a muscle's capability to produce force throughout the range of motion
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ACCELERATION TIME: Total time to reach isokinetic speed. Indicative of a muscle's neuromuscular capabilities to move the limb at the beginning of the range of motion
DECELERATION TIME: Total time to go from isokinetic speed to zero speed. Indicative of a muscle's neuromuscular capability to eccentrically control the limb at the end of the range of motion.
AGONANTAG RATIO: The Reciprocal muscle group ratio. Excessive imbalances may predispose a joint to injury
DEFICITS: 1 to 10% No significant difference between extremities.
 11 to 25% Rehabilitation recommended to improve muscle performance balance.

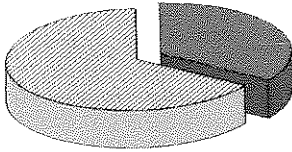
General Evaluation

Name: **Simon Baker** Session: **24/01/2012 16:44:17** Windowing: **None**
 ID: **MR100** Involved: **Right** Protocol: **isokinetic Bilateral**
 Birth Date: **26/08/1967 (M/d/yyyy)** Clinician: **Neasa Canavan MISCP MSc** Pattern: **Extension/Flexion**
 Ht: **180** Referral: **Jason Kenny/ PESS/ Arena** Mode: **Isokinetic**
 Wt: **90.0** Joint: **Knee** Contraction: **CON/CON**
 Gender: **Male** Diagnosis: **right amputee** GET: **No Gravity Correction**

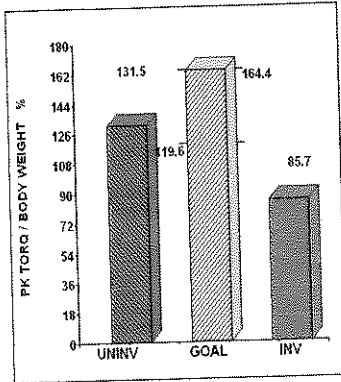
EXTENSION			FLEXION				
300 DEG/SEC			300 DEG/SEC				
# OF REPS (300/300): R 15 - L 15		UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT
		LEFT	RIGHT		LEFT	RIGHT	
PEAK TORQUE	N-M	118.2	77.0	34.9	76.2	52.4	31.2
PEAK TQ/BW	%	131.5	85.7		84.8	58.3	
MAX REP TOT WORK	J	143.1	104.2	27.2	106.5	62.3	41.5
COEFF. OF VAR.	%	10.2	23.0		5.7	13.3	
AVG. POWER	WATTS	240.6	148.6	38.2	157.1	93.3	40.6
TOTAL WORK	J	1756.3	1119.1	36.3	1274.0	783.9	38.5
ACCELERATION TIME	MSEC	60.0	70.0		100.0	140.0	
DECELERATION TIME	MSEC	140.0	200.0		150.0	110.0	
ROM	DEG	107.0	103.7		107.0	103.7	
AVG PEAK TQ	N-M	98.5	54.4		63.9	44.2	
AGONANTAG RATIO	%	64.5	68.1	G: 78.0			

EXTENSION

Deficit
34.9 %

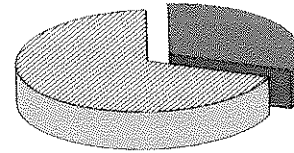


300 DEG/SEC

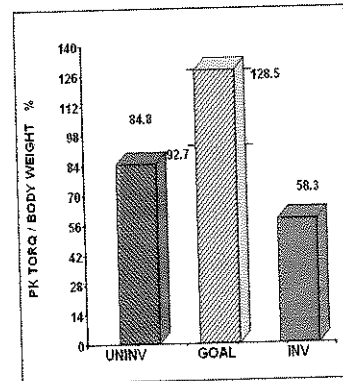


FLEXION

Deficit
31.2 %



300 DEG/SEC



Comments:

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AVG. POWER: Total work divided by time. Power represents how quickly a muscle can produce force.
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DECELERATION TIME: Total time to go from isokinetic speed to zero speed. Indicative of a muscle's neuromuscular capability to eccentrically control the limb at the end of the range of motion.
AGONANTAG RATIO: The Reciprocal muscle group ratio. Excessive imbalances may predispose a joint to injury
DEFICITS: 1 to 10% No significant difference between extremities
 11 to 25% Rehabilitation recommended to improve muscle performance balance.

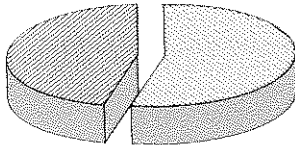
General Evaluation

Name: Simon Baker Session: 24/01/2012 17:07:43 Windowing: None
 ID: MR100 Involved: Right Protocol: Isokinetic Bilateral
 Birth Date: 26/08/1967 (M/d/yyyy) Clinician: Neasa Canavan MISC P MSc Pattern: Flexion/Extension
 Ht: 180 Referral: Jason Kenny/ PESS/ Arena Mode: Isokinetic
 Wt: 90.0 Joint: Hip Contraction: CON/CON
 Gender: Male Diagnosis: right amputee GET: No Gravity Correction

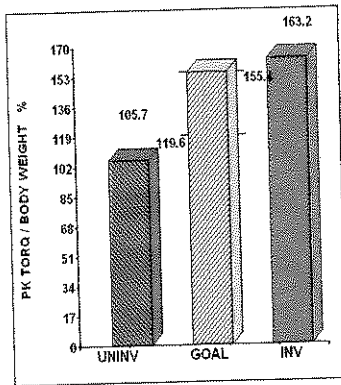
		FLEXION 45 DEG/SEC			EXTENSION 45 DEG/SEC		
# OF REPS (45/45): R 5 - L 5		UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT
PEAK TORQUE	N-M	95.1	146.7		111.0	105.0	5.4
PEAK TQ/BW	%	105.7	163.2		123.5	116.9	
MAX REP TOT WORK	J	132.9	214.8		243.1	132.7	45.4
COEFF. OF VAR.	%	5.7	11.3		6.3	11.3	
AVG. POWER	WATTS	48.0	68.9		47.0	42.0	10.7
TOTAL WORK	J	498.6	972.4		681.2	608.2	10.7
ACCELERATION TIME	MSEC	40.0	30.0		70.0	60.0	
DECELERATION TIME	MSEC	150.0	150.0		120.0	60.0	
ROM	DEG	111.5	126.1		111.5	126.1	
AVG PEAK TQ	N-M	75.1	125.0		104.1	89.8	
AGON/ANTAG RATIO	%	85.7	139.6	G: 64.0			

FLEXION

~~Stronger~~
54.3% deficit

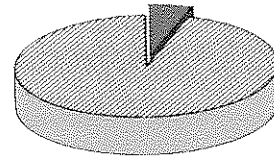


45 DEG/SEC

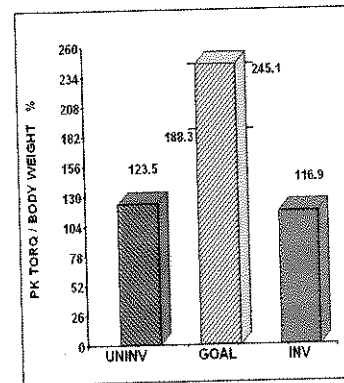


EXTENSION

~~Deficit~~
5.4% Stronger



45 DEG/SEC



Comments:

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AGON/ANTAG RATIO: The Reciprocal muscle group ratio. Excessive imbalances may predispose a joint to injury
DEFICITS: 1 to 10% No significant difference between extremities.
 11 to 25% Rehabilitation recommended to improve muscle performance balance.

General Evaluation

Name: **Simon Baker** Session: **17/01/2012 17:55:15** Windowing: **None**
 ID: **MR100** Involved: **Right** Protocol: **Isokinetic Bilateral**
 Birth Date: **26/08/1967 (M/d/yyyy)** Clinician: **Neasa Canavan MISCP MSc** Pattern: **Abduction/Adduction**
 Ht: **180** Referral: **Jason Kenny/ PESS/ Arena** Mode: **Isokinetic**
 Wt: **90.0** Joint: **Hip** Contraction: **CON/CON**
 Gender: **Male** Diagnosis: **right amputee** GET: **No Gravity Correction**

		ABDUCTION 30 DEG/SEC			ADDUCTION 30 DEG/SEC			ABDUCTION 60 DEG/SEC			ADDUCTION 60 DEG/SEC		
		UNINVOLVED <i>(R)</i>	INVOLVED <i>(L)</i>	DEFICIT	UNINVOLVED <i>(R)</i>	INVOLVED <i>(L)</i>	DEFICIT	UNINVOLVED <i>(R)</i>	INVOLVED <i>(L)</i>	DEFICIT	UNINVOLVED <i>(R)</i>	INVOLVED <i>(L)</i>	DEFICIT
# OF REPS (30/30):	5												
# OF REPS (60/60):	5												
PEAK TORQUE	N-M	79.9	129.7		60.6	112.9		68.2	115.8		61.2	107.3	
PEAK TQ/BW	%	88.8	144.2		67.4	125.6		75.9	128.8		68.1	119.3	
MAX REP TOT WORK	J	31.0	46.0		21.2	37.4		25.4	51.3		8.0	5.3	
COEFF. OF VAR.	%	6.6	2.6		8.1	5.4		9.8	12.6		30.7	60.0	
AVG. POWER	WATTS	25.0	48.2		16.9	36.2		36.6	68.4		110.7	210.4	
TOTAL WORK	J	130.5	214.8		96.2	167.1		122.5	233.8		70.0	50.0	
ACCELERATION TIME	MSEC	30.0	20.0		60.0	30.0		40.0	30.0		180.0	240.0	
DECELERATION TIME	MSEC	130.0	40.0		50.0	140.0		200.0	240.0		29.7	31.0	
ROM	DEG	29.9	27.7		29.9	27.7		29.7	31.0		55.9	98.8	
AVG PEAK TQ	N-M	67.2	126.1		56.6	104.5		59.5	102.3				
AGON/ANTAG RATIO	%	131.9	114.8	G: 64.0				111.5	107.9	G: N/A			

ABDUCTION

ADDUCTION

ABDUCTION

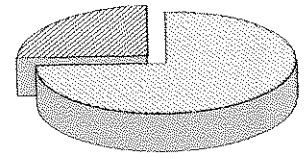
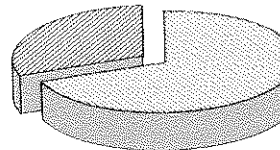
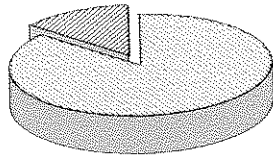
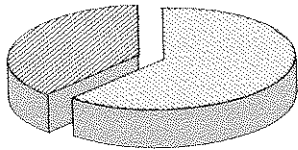
ADDUCTION

~~Stronger~~
62.3% *weaker*

~~Stronger~~
86.5% *weaker*

~~Stronger~~
69.7% *weaker*

~~Stronger~~
75.3% *weaker*

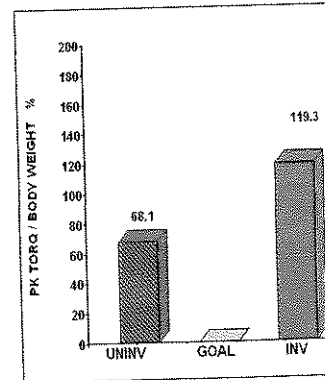
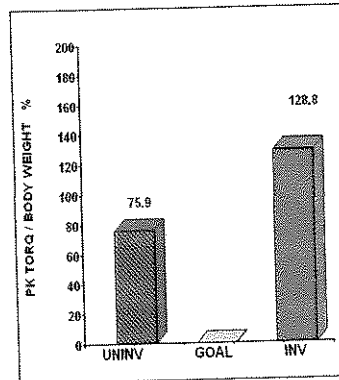
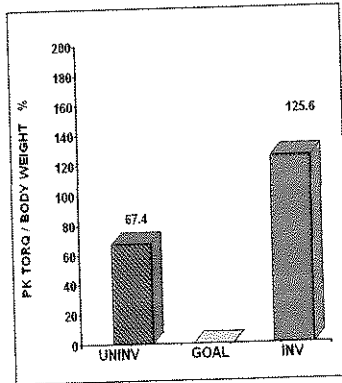
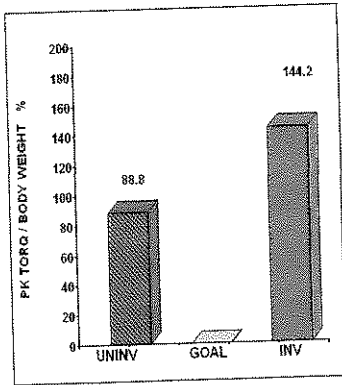


30 DEG/SEC

30 DEG/SEC

60 DEG/SEC

60 DEG/SEC



Comments:

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DEFICITS: 1 to 10% No significant difference between extremities.
 11 to 25% Rehabilitation recommended to improve muscle performance balance.

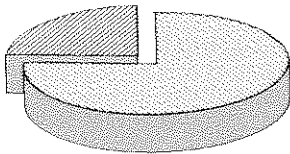
General Evaluation

Name: **Simon Baker** Session: **17/01/2012 17:55:15** Windowing: **None**
 ID: **MR100** Involved: **Right** Protocol: **Isokinetic Bilateral**
 Birth Date: **26/08/1967 (M/d/yyyy)** Clinician: **Neasa Canavan MISCP MSc** Pattern: **Abduction/Adduction**
 Ht: **180** Referral: **Jason Kenny/ PESS/ Arena** Mode: **Isokinetic**
 Wt: **90.0** Joint: **Hip** Contraction: **CON/CON**
 Gender: **Male** Diagnosis: **right amputee** GET: **No Gravity Correction**

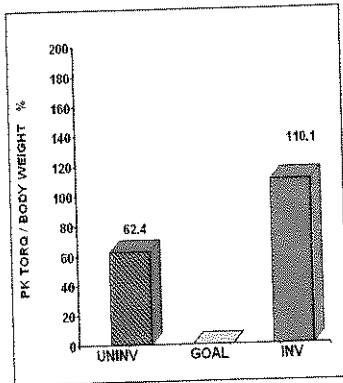
		ABDUCTION 90 DEG/SEC		ADDUCTION 90 DEG/SEC		DEFICIT	
# OF REPS (90/90): R 5 - L 5		UNINVOLVED	INVOLVED	UNINVOLVED	INVOLVED	DEFICIT	
		LEFT <i>R</i>	RIGHT <i>L</i>	LEFT <i>R</i>	RIGHT <i>L</i>		
PEAK TORQUE	N-M	56.1	99.0	58.7	71.1		
PEAK TQ/BW	%	62.4	110.1	65.3	79.1		
MAX REP TOT WORK	J	22.0	38.3	24.4	31.5		
COEFF. OF VAR.	%	5.0	9.8	9.7	6.8		
AVG. POWER	WATTS	44.5	60.9	41.0	47.0		
TOTAL WORK	J	105.5	165.5	107.3	140.2		
ACCELERATION TIME	MSEC	50.0	20.0	60.0	80.0		
DECELERATION TIME	MSEC	150.0	250.0	210.0	180.0		
ROM	DEG	29.7	31.1	29.7	31.1		
AVG PEAK TQ	N-M	53.4	86.9	51.5	66.5		
AGON/ANTAG RATIO	%	95.5	139.2	G: N/A			

ABDUCTION

~~Stronger~~
76.5% *Weaker*

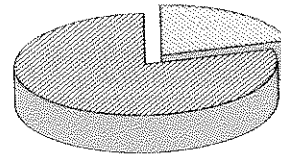


90 DEG/SEC

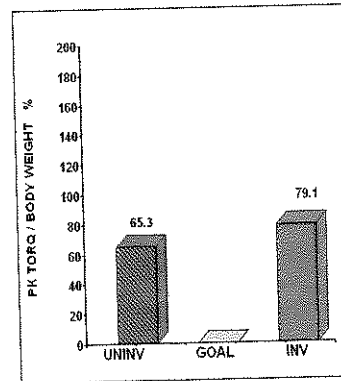


ADDUCTION

~~Stronger~~ *Weaker*
21.1%



90 DEG/SEC



Comments:

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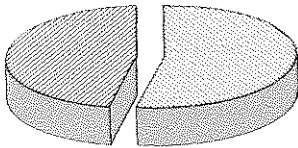
General Evaluation

Name: **Simon Baker** Session: **24/01/2012 16:44:17** Windowing: **None**
 ID: **MR100** Involved: **None** Protocol: **Isokinetic Bilateral**
 Birth Date: **26/08/1967 (M/d/yyyy)** Clinician: **Neasa Canavan MISCP MSc** Pattern: **Extension/Flexion**
 Ht: **180** Referral: **Jason Kenny/ PESS/ Arena** Mode: **Isokinetic**
 Wt: **90.0** Joint: **Knee** Contraction: **CON/CON**
 Gender: **Male** Diagnosis: **right amputee** GET: **No Gravity Correction**

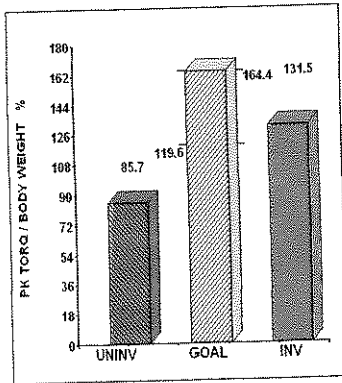
EXTENSION 300 DEG/SEC			FLEXION 300 DEG/SEC					
# OF REPS (300/300): R 15 - L 15			UNINVOLVED	INVOLVED	DEFICIT	UNINVOLVED	INVOLVED	DEFICIT
PEAK TORQUE	N-M		77.0	118.2		52.4	76.2	
PEAK TQ/BW	%		85.7	131.5		58.3	84.8	
MAX REP TOT WORK	J		104.2	143.1		62.3	106.5	
COEFF. OF VAR.	%		23.0	10.2		13.3	5.7	
AVG. POWER	WATTS		148.6	240.6		93.3	157.1	
TOTAL WORK	J		1119.1	1756.3		783.9	1274.0	
ACCELERATION TIME	MSEC		70.0	60.0		140.0	100.0	
DECELERATION TIME	MSEC		200.0	140.0		110.0	150.0	
ROM	DEG		103.7	107.0		103.7	107.0	
AVG PEAK TQ	N-M		54.4	98.5		44.2	63.9	
AGON/ANTAG RATIO	%		68.1	64.5	G: 78.0			

EXTENSION

Stronger
53.5% *weaker*

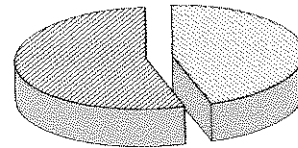


300 DEG/SEC

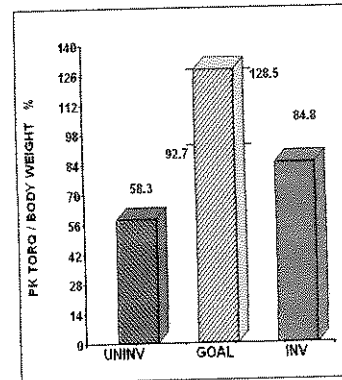


FLEXION

Stronger
45.4% *weaker*



300 DEG/SEC



Comments:

PEAK TORQUE: Highest muscular force output at any moment during a repetition. Indicative of a muscle's strength capabilities.
PEAK TQ/BW: Represented as a percentage normalized to bodyweight and compared to an established goal.
MAX REP TOT WORK: Total muscular force output for the repetition with greatest amount of work. Work is indicative of a muscle's capability to produce force throughout the range of motion.
AVG. POWER: Total work divided by time. Power represents how quickly a muscle can produce force.
ACCELERATION TIME: Total time to reach isokinetic speed. Indicative of a muscle's neuromuscular capabilities to move the limb at the beginning of the range of motion.
DECELERATION TIME: Total time to go from isokinetic speed to zero speed. Indicative of a muscle's neuromuscular capability to eccentrically control the limb at the end of the range of motion.
AGON/ANTAG RATIO: The Reciprocal muscle group ratio. Excessive imbalances may predispose a joint to injury.
DEFICITS: 1 to 10% No significant difference between extremities.
 11 to 25% Rehabilitation recommended to improve muscle performance balance.