

How Comprehensive and Efficient Are Patient Reported Outcomes For Femoroacetabular Impingement?

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Disclosures

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Background

- Emphasis on patient reported outcomes (PRO) following orthopedic procedures as a measure of quality and patient satisfaction is increasing
- Multiple different PRO exist to evaluate patients with hip pain secondary to femoroacetabular impingement (FAI)
- Hip PRO have been shown to have varying degrees of utilization and accuracy in the FAI population

Hypothesis

- Understanding which disease-specific PRO are most efficiently administered in patients with FAI undergoing hip arthroscopy may promote adoption of more useful scores
- We used a novel assessment criterion to study all commonly-used PRO in hip arthroscopy literature
- We hypothesized that many PRO with fewer questions are as comprehensive as longer surveys

Methods

- ***Analyzed 13 commonly-used PRO:***
 - Number of survey components
 - Comprehensiveness
 - Efficiency
- ***Components analyzed:***

PAIN	FUNCTIONAL	SATISFACTION/QoL
At Rest/Baseline	ROM/Stiffness	
Night	ADL/Light	
ADL/Light	Sport/Strenuous	
Sport/Strenuous	Work	
Work	Sitting	
Mechanical Symptoms	Pre-injury Function	

Methods

- ***Comprehensiveness*** = total pain components + functional components + quality of life/satisfaction component
- ***Efficiency*** = comprehensiveness/# of survey components

Results

PRO	FUNCTION	PAIN	QoL/Satisfaction	# of Qs
MHHS		X	X	8
HAGOS		X	X	37
HOS		X		31
HOOS		X	X	40
iHOT-12		X	X	12
iHOT-33		X	X	33
NAHS		X	X	20
OHS		X	X	12
WOMAC		X	X	32
SF-12		X	X	12
SF-36		X	X	36
EQ-5D		X	X	6
UCLA		X		1

- # of components ranged from 1 (UCLA) – 40 (HOOT)
- 7 PRO included quality of life metrics

Results

- **Pain components:**
 - Only iHOT-33 included all 6 pain components

PRO	Rest/ Baseline	ADL/Light	Sport/ Strenuous	Work	Mechanical Symptoms	Night/ Sleep	Total
MHHS	X	X		X		X	4
HAGOS	X	X			X	X	4
HOS							0
HOOS	X	X			X	X	4
iHOT-12	X	X			X		3
iHOT-33	X	X	X	X	X	X	6
NAHS	X	X	X		X	X	5
OHS	X	X		X		X	4
WOMAC	X	X			X	X	4
SF-12		X		X			2
SF-36	X	X		X			3
EQ-5D	X						1
UCLA							0
Total	10	10	2	5	6	7	

Results

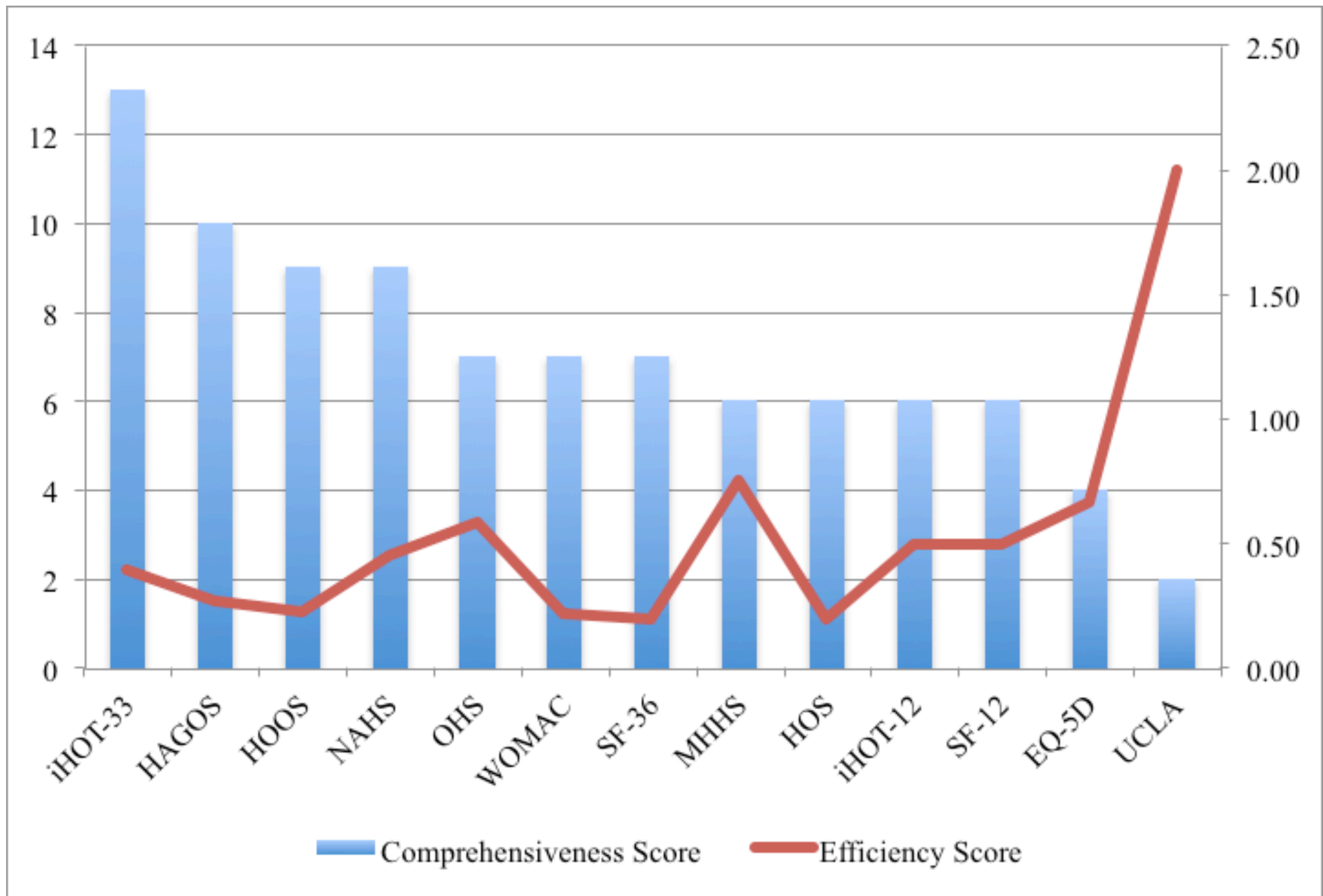
- **Functional components:**
 - Only iHOT-33 and HOS included all 6 pain components

PRO	Motion/ Stiffness	ADL/Light Activity	Sport/ Strenuous	Pre-Injury Level	Work	Sitting	Total
MHHS		X				X	2
HAGOS	X	X	X	X		X	5
HOS	X	X	X	X	X	X	6
HOOS	X	X	X			X	4
iHOT-12		X	X				2
iHOT-33	X	X	X	X	X	X	6
NAHS	X	X	X			X	4
OHS		X			X	X	3
WOMAC	X	X				X	3
SF-12		X	X		X		3
SF-36		X	X		X		3
EQ-5D		X			X		2
UCLA		X	X				2
Total	6	13	9	3	6	8	

Results

- ***Most COMPREHENSIVE scores:***
 - iHOT-33 = 13
 - HAGOS = 10
- ***Least COMPREHENSIVE score:***
 - UCLA = 2
- ***Most EFFICIENT scores:***
 - UCLA = 2.00
 - MHHS = 0.75
 - EQ-5D = 0.67
- ***Least EFFICIENT scores:***
 - HOS = 0.19
 - SF-36 = 0.19

Results



Bar Graph of Comprehensiveness Scores with Overlying Line Graph of Efficiency Scores on Secondary Axis

Conclusions

- The ideal score has a balance of comprehensiveness and efficiency
- Many commonly used PRO for FAI are lacking in comprehensiveness and efficiency
- Continued scrutiny of commonly utilized PRO after hip arthroscopy may help practitioners obtain more accurate and reliable outcomes reporting

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