

2012年International Tuberous Sclerosis Complex Consensus Conference  
TSC

**TSC**

**International Tuberous Sclerosis Complex Consensus Group**  
TSC

TSC





Westerveld M, et al. 2011, 2012 and 2013, Dufner Almeida LG, et al. 2020

- TSC1/TSC2
- ACMG America College of Medical Genetics Richards S, et al. 2015
- 10-15 TSC1/TSC2
- NGS High-read-depth NGS Tyburczy ME, et al. 2015 Giannikou K, et al. 2019 Peron A, et al. 2018

2022 4

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0000000(2000)*	

definite TSC 2 1 2 possible TSC 1 2 TSC1 TSC2 TSC TSC1 TSC2 TSC

LAM 2 TSC

Northrup H, et al. Pediatr Neurol 2021; 123: 50-66, 52-53.

NCCN National Comprehensive Cancer Network.

Development and update of guidelines. Available at:

[https://www.nccn.org/guidelines/guidelines-process/development-and-update-of-guidelines.](https://www.nccn.org/guidelines/guidelines-process/development-and-update-of-guidelines)

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[https://www.nccn.org/guidelines/guidelines-process/development-and-update-of-guidelines.](https://www.nccn.org/guidelines/guidelines-process/development-and-update-of-guidelines)  
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Development and update of guidelines. Available at:  
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## 2

Category		
Category 1		1 class I 2 class II 3 class III
Category 2A		1 class II 2 class III
Category 2B		1 class III 2 class IV
Category 3		class I-IV

## class

- class I:
- class II:
- class III:
- class IV:

## 

## 3

##



MRI SEN SEGA MRI CT MRI

EEG EEG 8 24 EEG

MRI CT

TAND

TAND





MRIT  
MRI

CT  
GFR > 60 mL/min/1.73 m<sup>2</sup>

MRI MRI  
MRI

GFR

MRI CT GFR



VEGF-D-CT

mTOR

mTOR













SEGA

SEGA mTOR  
SEGA mTOR  
SEGA mTOR  
SEGA SEGA

mTOR  
mTOR 3

9.

9.7

9.7.1

SEGA 25 1 3 MRI  
1 3 SEGA SEGA

mTOR MRI

EEG 12 6 24  
3 EEG

2  
ACTH

EEG 24 EEG

mTOR

3

mTOR

TAND

TAND <https://tandconsortium.org/checklists/> 1  
TAND  
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SEGA

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3cm mTOR EXIST-2  
15mg 30 EXIST-2  
GFR  
EXIST-2

1

mTOR

mTOR

- 8.
- 8.3 BUN
- 11.
- 11.1.3 0.9%

MRI  
MRI CT 1 3 3cm  
1 1cm  
mTOR

HMB-45

mTOR GFR MRI CT

CT LAM LAM CT  
57 CT

CT LAM CT  
mTOR CT

CT LAM 6 1  
CT

mTOR LAM CT  
VEGF-D 1

VEGF-D 1

LAM 2

LAM

LAM

CT mTOR VEGF-D -D



1.  $\text{mTOR}$  抑制剂在肿瘤治疗中的应用

$\text{mTOR}$  抑制剂在肿瘤治疗中的应用

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$\text{mTOR}$  抑制剂在肿瘤治疗中的应用

□





VEGF mTOR

VEGF

FDA 3

mTOR



3) Krueger D. A, et al. Pediatr Neurol 2013; 49: 255-265.

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