

See “Tacrolimus for ulcerative colitis in children: a multicenter survey in Japan” on page 476-485.

**Supplementary Material 1.** Supplement tacrolimus treatment questionnaire for pediatric UC.

**Tacrolimus (TAC) treatment questionnaire for pediatric ulcerative colitis (Patients are children under 17 years of age receiving their first dose of tacrolimus)**

Sex: (Male/Female) Birth date: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day

Height and weight at diagnosis: BW \_\_\_\_\_ kg; Ht \_\_\_\_\_ cm

Family history: (Yes No)

History of disease other than ulcerative colitis: (Yes No)

• At diagnosis of ulcerative colitis:

• Severity: mild, moderate, severe (PUCAI: \_\_\_\_\_)

• Disease extent: Proctitis, Left-sided colitis, Pancolitis Matt's grade \_\_\_\_\_

(1) Treatment history before TAC administration: (circle as appropriate):

5ASA/SASP, Steroid, AZA/6-MP, Leukocyte apheresis, Cyclosporine, Infliximab Other  
(specify: \_\_\_\_\_ )

(2) Reason for TAC administration (circle as appropriate):

Steroid-dependent, Steroid-refractory, Other (specify: \_\_\_\_\_ )

(3) Characteristics at the beginning of TAC administration (circle as appropriate or provide data):

• Outpatient Hospitalized

• Age at the start of TAC administration \_\_\_\_\_ years \_\_\_\_\_ months

• Start date of administration: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day

• Severity: mild, moderate, severe PUCAI: \_\_\_\_\_

• Disease extent: Proctitis, Left-sided colitis, Pancolitis Matt's grade: \_\_\_\_\_

• Total steroid dose before TAC administration:

1.0 g 2.0–5g 3.5–10 g 4.10–20 g > 5. 20 g

• Initial tacrolimus dose: \_\_\_\_\_ mg/day ( \_\_\_\_\_ mg/kg/day)

(4) Blood concentration profile after TAC administration

→ Please complete the table on the next page and provide all measurements for data within 3 weeks of TAC administration.

(5) **Short-term (2 weeks) effect**

Response to TAC is defined as a PUCAI score decrease of  $\geq 20$  points compared with baseline

Remission: PUCAI < 10

Effect: Yes / No If “Yes” → Remission / Response (circle appropriate choice)

**(6-1) If you circled "Yes" (Remission or Response) in Question 5:**

- (1) Last day of TAC administration: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day  
(administration period \_\_\_\_\_ weeks)  
Reason for discontinuation: Remission / Insurance restrictions (3 months) / Relapse  
(\_\_\_\_\_ weeks) / Side effect (\_\_\_\_\_) / Operation / Other (specify: \_\_\_\_\_)
- (2) Additional treatment during TAC administration (for maintenance therapy):  
AZA/6MP: Yes / No; Other (specify: \_\_\_\_\_)

**(6-2) If you circled "No" for "Effect" in Question 5:**

- (1) Last day of TAC administration: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day
- (2) New treatment after discontinuing TAC:  
Steroid, AZA/6-MP, Leukocyte apheresis, Cyclosporine, Infliximab, Operation  
(\_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day), Other (specify: \_\_\_\_\_)

**(7) Long-term (1 year) effects**

- (1) Progress from the first dose of TAC to 1 year:  
Relapse No / Yes ("Yes" → \_\_\_\_\_ weeks form first TAC dose)
- (2) Patient's condition 1 year after initial TAC administration:  
Maintaining remission / Treating for relapse  
PUCAI 1-year after initial TAC dose: \_\_\_\_\_  
If surgery was performed: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day

**(8) Adverse effects secondary to TAC administration: Yes / No**

Hypomagnesaemia / tremor / headache / hypertension / hyperglycemia / infection / renal disorder / other (specify: \_\_\_\_\_ )

**(9) Treatment course**

	At the start of administration	2 Weeks ( m d)	4 Weeks ( m d)	8 Weeks ( m d)	At TAC discontinuation ( m d)	1 year after TAC ( m d)
1. Tacrolimus (TAC) dose	mg/day	mg/day	mg/day	mg/day	mg/day	mg/day
2. 5ASA/SASP dose	mg/day	mg/day	mg/day	mg/day	mg/day	mg/day
3. Steroid dose	mg/day	mg/day	mg/day	mg/day	mg/day	mg/day
4. AZA/6-MP dose	mg/day	mg/day	mg/day	mg/day	mg/day	mg/day
5. Leukocyte apheresis	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
6. Other treatment(s) ( ) ( )						
Height	cm	cm	cm	cm	cm	cm
Body Weight	kg	kg	kg	kg	kg	kg
PUCAI						

**Tacrolimus blood concentration over time**

Administration course	Blood trough concentration (nmol/L)	Dose after changing to TAC (mg/day)	PUCAI	
After 12 hours		→	X	<u>Please add any additional comments or impressions.</u>
After 24 hours		→	X	
Day ( 2 )		→		
Day ( )		→		
Day ( )		→		
Day ( )		→		
Day ( )		→		
Day ( )		→		
4 weeks		→		
3 months		→		
( ) months		→		If > 3 months, please provide the number of months after first TAC administration.
( ) months		→		Last measurement date m _____ d _____