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This English version is intended to be a reference material to provide convenience for users. In the event of inconsistency between the Japanese original and this

English translation, the former shall prevail.

Revision of Precautions Tofacitinib citrate

October 12, 2021

Therapeutic category Agents affecting metabolism, n.e.c. (not elsewhere classified)

62

Non-proprietary name

Tofacitinib citrate

Safety measure Precautions should be revised in the package insert.

Pharmaceuticals and Medical Devices Agency

Revision in line with the Instructions for Electronic Package Inserts of Prescription Drugs, etc. PSEHB Notification No. 0611-1 by the Director of Pharmaceutical Safety and Environmental Health Bureau, MHLW, dated June 11, 2021 (New instructions): Revised language is underlined.

Current	Revised
1. WARNINGS	1. WARNINGS
New onset or worsening of serious infection by tuberculosis,	New onset or worsening of serious infection by tuberculosis,
pneumonia, sepsis, or virus infection has been reported following	pneumonia, sepsis, or virus infection as well as onset of malignancy
administration of this drug. Onset of malignancy has also been	has been reported following administration of this drug. Including the
reported following administration of this drug although the	fact that this drug is not an agent to completely cure a disease, such
relationship with this drug is not clear. Including the fact that this drug	information should be fully made known to patients and their
is not an agent to completely cure a disease, such information should	understanding should be ensured before this drug is administered. In
be fully made known to patients and their understanding should be	addition, this drug should be administered only if the potential
ensured before this drug is administered. In addition, this drug should	therapeutic benefits are considered to outweigh the potential risks.
be administered only if the potential therapeutic benefits are	Serious adverse reactions may also occur and take a fatal course
considered to outweigh the potential risks.	following administration of this drug. This drug should be used in the
Serious adverse reactions may also occur and take a fatal course	healthcare facilities and by the physicians that are highly capable of
following administration of this drug. This drug should be used in the	responding to emergencies, and patients should be warned to
healthcare facilities and by the physicians that are highly capable of	contact their physicians immediately if such adverse reactions occur
responding to emergencies, and patients should be warned to	following administration of this drug.
contact their physicians immediately if such adverse reactions occur	
following administration of this drug.	
5. PRECAUTIONS CONCERNING INDICATIONS	5. PRECAUTIONS CONCERNING INDICATIONS
<common all="" indications="" to=""></common>	<common all="" indications="" to=""></common>
When administration of this drug is considered in patients with risk	When administration of this drug is considered in patients with risk

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	factors of cardiovascular events, alternative treatments should be		factors of cardiovascular events, alternative treatments should be
	considered first, since venous thromboembolism may occur.		considered first, since cardiovascular events such as myocardial
			infarction or venous thromboembolism may occur.
ξ	3. IMPORTANT PRECAUTIONS	8.	. IMPORTANT PRECAUTIONS
	Onset of malignancy such as malignant lymphoma and solid tumor		Onset of malignancy such as malignant lymphoma and solid tumor
	has been reported. Although the causal relationship with this drug is		has been reported. Also there has been a report that a trend toward
	not clear, caution should be exercised for the onset of malignancy.		a higher incidence of malignancy was observed with this drug
			compared with TNF inhibitors in an overseas clinical study. Caution
			should be exercised for the onset of malignancy.
ç). PRECAUTIONS CONCERNING PATIENTS WITH SPECIFIC	9.	. PRECAUTIONS CONCERNING PATIENTS WITH SPECIFIC
E	BACKGROUNDS	B/	ACKGROUNDS
ç	0.1 Patients with Complication or History of Diseases, etc.	9.	.1 Patients with Complication or History of Diseases, etc.
	Patients with risk factors of cardiovascular events		Patients with risk factors of cardiovascular events
	Alternative treatments should be considered first. In particular, the		Alternative treatments should be considered first. In particular, the
	necessity of administration of this drug 10 mg twice daily should be		necessity of administration at 10 mg twice daily should be
	determined with caution.		determined with caution.
	When this drug is administered, the onset of signs and symptoms of		When this drug is administered, the onset of signs and symptoms of
	venous thromboembolism should be closely monitored.		cardiovascular events such as myocardial infarction and venous
	Venous thromboembolism may occur. In an ongoing overseas clinical		thromboembolism should be closely monitored.
	study in patients with rheumatoid arthritis who <u>are 50 years old or</u>		In an overseas clinical study in patients with rheumatoid arthritis who
	older and have at least 1 risk factor of cardiovascular events (such		had risk factors of cardiovascular events (such as smoking,
	as smoking, hypertension, diabetes mellitus, and a history of		hypertension, diabetes mellitus, and a history of coronary artery

coronary artery disease), it has been reported that a trend toward a	disease), a trend toward a higher incidence of cardiovascular events
higher incidence of pulmonary embolism and deep vein thrombosis	such as myocardial infarction was observed in the groups that
was observed in a dose-dependent manner in the groups that	received this drug compared with the TNF inhibitors group. A trend
received 5 mg or 10 mg of this drug twice daily compared with the	toward a higher incidence of venous thromboembolism was also
TNF inhibitors group, and that the incidence of death including	observed with this drug in a dose-dependent manner, and it has
sudden cardiac death tended to be similar between the TNF	been reported that the incidence of death tended to be higher in the
inhibitors group and the group that received 5 mg of this drug twice	group that received 10 mg of this drug twice daily.
daily, while the rate tended to be higher in the group that received 10	
mg of this drug twice daily.	
11. ADVERSE REACTIONS	11. ADVERSE REACTIONS
11.1 Clinically Significant Adverse Reactions	11.1 Clinically Significant Adverse Reactions
(N/A)	Cardiovascular events
	Cardiovascular events such as myocardial infarction may occur.
	<u>Malignancy</u>
15. OTHER PRECAUTIONS	15. OTHER PRECAUTIONS
15.1 Information Based on Clinical Uses	15.1 Information Based on Clinical Uses
<rheumatoid arthritis=""></rheumatoid>	<rheumatoid arthritis=""></rheumatoid>
In 5 controlled studies conducted in Japan or overseas for up to 1	(deleted)
year, this drug was administered to 3 030 cases (2 098 patient-years)	
and placebo to 681 cases (203 patient-years). As a result,	
malignancy (excluding non-melanoma skin cancer) occurred in 13	

cases in the groups that received this drug compared with no cases	
in the placebo group. The incidence of malignancy (excluding non-	
melanoma skin cancer) for respective exposure level was 0.55/100	
patient-years (95% CI: 0.23 to 1.33, incidence: 0.4% [5/1 216 cases])	
in patients with rheumatoid arthritis who received 5 mg of this drug	
twice daily, and 0.88/100 patient-years (95% CI: 0.44 to 1.76,	
incidence: 0.7% [8/1 214cases]) in patients with rheumatoid arthritis	
who received 10 mg of this drug twice daily, the latter higher than the	
former. In several clinical studies conducted in Japan and overseas,	
malignancy (excluding non-melanoma skin cancer) occurred in 65	
cases in total in the groups that received this drug. The incidence by	
time to onset is shown in the table. In addition, onset of lymphoma	
has been reported in patients with rheumatoid arthritis who received	
this drug. In a clinical study conducted overseas in patients who had	
undergone renal transplantation, the incidence of EB Virus-related	
lymphoma was 2.3% (5/218 cases, 4 cases of non-Hodgkin's	
lymphoma, 1 case of Hodgkin's lymphoma) in patients who received	
this drug while the incidence of lymphoma was 0% (0/111 cases) in	
patients who received ciclosporin, both in combination with multiple	
immunosuppressants.	
<ulcerative colitis=""></ulcerative>	<ulcerative colitis=""></ulcerative>
In 4 controlled studies conducted in Japan and overseas as well as a	(deleted)
long-term treatment study, a total of 7 cases of malignancy	

(excluding non-melanoma skin cancer) including 1 case of lymphoma	
were reported in all dose groups combined. All the 7 cases were	
observed in the PD (Predominant Dose) 10 mg per dose twice daily	
group. Non-melanoma skin cancer was reported in 10 cases.	
including 9 cases in the PD 10 mg per dose, twice daily group. The	
incidence of non-melanoma skin cancer in the PD 10 mg per dose	
twice daily group was higher than in the PD 5 mg per dose twice	
daily group. Likewise, the incidence of non-melanoma skin cancer	
was higher in the PInd (Post-Induction dose) 10 mg per dose twice	
daily group than in the PInd 5 mg per dose twice daily group. There	
was no trend toward an increased incidence of non-melanoma skin	
cancer in proportion to the treatment duration.	
17. CLINICAL STUDIES	17. CLINICAL STUDIES
(N/A)	17.3 Others
	Overseas post-market clinical study (A3921133 Study)
	An open-label, randomized, parallel-group, controlled study was
	conducted in 4 362 foreign patients with rheumatoid arthritis who
	were 50 years old or older and had at least 1 risk factor of
	cardiovascular events (such as smoking, hypertension, diabetes
	mellitus, and a history of coronary artery disease) to investigate the
	safety following administration of this drug (5 mg or 10 mg twice daily
	Note 1) or TNF inhibitors.
	The non-inferiority of the groups that received this drug to the TNF

inhibitor group was not confirmed for either the incidence rate of major adverse cardiovascular events note 2) (MACE) or the incidence rate of malignancy (excluding non-melanoma skin cancer) as the constraint of major adverse cardiovascular events (MACE) or the incidence rate of malignancy (excluding non-melanoma skin cancer) as the constraint of the major adverse Cardiovascular Events (MACE) Table Incidence rate of Major Adverse Cardiovascular Events (MACE) Table Incidence rate of Major Adverse Cardiovascular Events (MACE) Major BID N=1.456 N=1.456 N=1.456 N=1.456 N=1.456 Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21) 1.21 1.221 Major
rate of malignancy (excluding non-melanoma skin cancer) as the col primary endpoints. Table Incidence rate of Major Adverse Cardiovascular Events (MACI S mg BID 10 mg BID 10 mg BID This drug TNF N=1 455 N=1 456 N=2 911 N=1 451 Incidence rate per 100 patient-years 1.21 1.05 (0.78, 1.09 (0.67, 1.05 (0.78, 1.09 (0.67, 1.09 (0.67, 1.
primary endpoints.Table Incidence rate of Major Adverse Cardiovascular Events (MACS mg BID10 mg BIDThis drugTNFN=1 455N=1 456combinedinhibitorsN=1 455N=1 456combinedinhibitorsIncidence rate per0.91 (0.67,1.05 (0.78,0.98 (0.79,0.73 (0.52,100 patient-years1.21)1.38)1.19)1.01)(95% CI)1.91)2.18)1.94)a1.94)aa: The upper limit of CI 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
Table Incidence rate of Major Adverse Cardiovascular Events (MAC5 mg BID10 mg BIDThis drugTNFN=1 455N=1 456combinedinhibitorsN=2 911N=1 451Incidence rate per0.91 (0.67,1.05 (0.78,0.98 (0.79,0.73 (0.52,100 patient-years1.21)1.38)1.19)1.01)(95% Cl)11.24 (0.81,1.43 (0.94,1.33 (0.91,(95% Cl)1.91)2.18)1.94)a1a: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
5 mg BID 10 mg BID This drug TNF N=1 455 N=1 456 combined inhibitors N=1 455 N=1 456 N=2 911 N=1 451 Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21 1.38) 1.19 1.01) (95% Cl) 1 1.43 (0.94, 1.33 (0.91, Hazard ratio 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, (95% Cl) 1.91 2.18) 1.94) ^a a: The upper limit of CI 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
5 mg BID 10 mg BID This drug TNF N=1 455 N=1 456 combined inhibitors N=1 455 N=1 456 N=2 911 N=1 451 Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21 1.38) 1.19 1.01) (95% Cl) 1 1.43 (0.94, 1.33 (0.91, Hazard ratio 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, (95% Cl) 1.91 2.18) 1.94) ^a a: The upper limit of CI 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
N=1 455 N=1 456 combined inhibitors N=1 455 N=1 456 combined inhibitors N=2 911 N=1 451 Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21) 1.38) 1.19) 1.01) (95% Cl) 1 1.43 (0.94, 1.33 (0.91, Hazard ratio 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, (95% Cl) 1.91) 2.18) 1.94) ^a a: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21) 1.38) 1.19) 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21) 1.38) 1.19) (95% Cl) 1.21 1.33 (0.94, 1.33 (0.91, 0.95, 0.95% Cl)) Hazard ratio 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, 0.94)) (95% Cl) 1.91) 2.18) a: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
Incidence rate per 0.91 (0.67, 1.05 (0.78, 0.98 (0.79, 0.73 (0.52, 100 patient-years 1.21) 1.38) 1.19) 1.01) (95% Cl) 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, (95% Cl) 1.91) 2.18) 1.33 (0.91, 1.94) ^a a: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
100 patient-years 1.21) 1.38) 1.19) 1.01) (95% Cl) 1 1.43 (0.94, 1.33 (0.91, Hazard ratio 1.24 (0.81, 1.43 (0.94, 1.33 (0.91, (95% Cl) 1.91) 2.18) 1.94)a a: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
(95% CI)Image: Constraint of the state of the
Hazard ratio1.24 (0.81,1.43 (0.94,1.33 (0.91,(95% Cl)1.91)2.18)1.94)aa: The upper limit of Cl 95% for the hazard ratio of the groups of thisdrug combined to the TNF inhibitors group exceeded the preset non-
(95% Cl)1.91)2.18)1.94)aa: The upper limit of Cl 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
a: The upper limit of CI 95% for the hazard ratio of the groups of this drug combined to the TNF inhibitors group exceeded the preset non-
drug combined to the TNF inhibitors group exceeded the preset non-
inferiority margin of 1.8.
Table Incidence rate of Malignancy (excluding non-melanoma skin
cancer)
5 mg BID 10 mg BID This drug TNF
N=1 455 N=1 456 combined inhibitors
<u>N=2 911</u> <u>N=1 451</u>
Incidence rate per 1.13 (0.87, 1.13 (0.86, 1.13 (0.94, 0.77 (0.55,

	100 patient-years	1.45)	1.45)	1.35)	1.04)	
	<u>(95% CI)</u>					
F	Hazard ratio	1.47 (1.00,	<u>1.48 (1.00,</u>	1.48 (1.04,		
	<u>(95% CI)</u>	<u>2.18)</u>	<u>2.19)</u>	<u>2.09)^b</u>		
b	o: The upper limit o	f CI 95% for t	the hazard ra	tio of the gro	ups that	
r	eceived this drug c	ombined to t	<u>he TNF inhib</u>	itors group ex	ceeded the	
p	oreset non-inferiorit	<u>y margin of 1</u>	<u>.8.</u>			
T	The incidence rate of pulmonary embolism, deep vein thrombosis, an					
<u>to</u>	otal death was as i	n the table be	elow.			
	Table Incidend	ce rate of Pul	monary Emb	olism and De	ep Vein	
_						
		<u>5 mg BID</u>	<u>10 mg BID</u>	<u>This drug</u>	<u>TNF</u>	
		<u>N=1 455</u>	<u>N=1 456</u>	<u>combined</u>	inhibitors	
				<u>N=2 911</u>	<u>N=1 451</u>	
	<u>Pulmonary</u>	<u>0.17</u>	<u>0.50</u>	<u>0.33</u>	<u>0.06</u>	
	<u>embolism</u>	<u>(0.08,</u>	<u>(0.32,</u>	<u>(0.23,</u>	<u>(0.01,</u>	
		<u>0.33)</u>	<u>0.74)</u>	<u>0.46)</u>	<u>0.17)</u>	
	<u>Deep vein</u>	<u>0.21</u>	<u>0.31</u>	<u>0.26</u>	<u>0.14</u>	
	<u>thrombosis</u>	<u>(0.11,</u>	<u>(0.17,</u>	<u>(0.17,</u>	<u>(0.06,</u>	
		<u>0.38)</u>	<u>0.51)</u>	<u>0.38)</u>	<u>0.29)</u>	
<u>10</u>	cidence rate per 1	00 patient-ye	ears (95% Cl)		

		Table Incid	dence rate of T	otal Death			
		<u>5 mg BID</u>	10 mg BID	This drug	<u>TNF</u>		
		<u>N=1 455</u>	<u>N=1 456</u>	<u>combined</u>	inhibitors		
				<u>N=2 911</u>	<u>N=1 451</u>		
	Total death	<u>0.50 (0.33,</u>	<u>0.80 (0.57,</u>	<u>0.65 (0.50,</u>	<u>0.34 (0.20,</u>		
		<u>0.74)</u>	<u>1.09)</u>	<u>0.82)</u>	<u>0.54)</u>		
	Incidence rate per 100 patient-years (95% CI)						
	Note1) The approved dosage and administration of this drug for the						
	indication of rheumatoid arthritis are oral administration of tofacitinib 5						
	mg twice daily.						
	Note2) MACE was defined in the study as follows: · Cardiovascular death: Death due to acute myocardial infarction, sudden cardiac death, death due to heart failure, death due to stroke, death due to cardiovascular procedures, death due to cardiovascular haemorrhage, death due to other cardiovascular causes: Peripheral						
	artery disease.						
	Non-fatal myocardial infarction						
	 Non-fatal stroke of any classification, including reversible focal 						
	neurologic def	ects with imag	ing evidence c	of a new cerebr	al lesion		
	consistent with	<u>n ischaemia or</u>	haemorrhage.				