

Pharmaceuticals and Medical Devices Safety Information

No. 340 February 2017

Table of Contents

1. Precautions Concerning Recurrent and Similar Medical Accidents	4
2. Revision of Precautions (No. 281)	10
Iguratomod (and 2 others).....	10
3. List of Products Subject to Early Post-marketing Phase Vigilance.....	12
(Reference) Precautions Regarding Handling of Fire During Long-Term Oxygen Therapy (LOT).....	15

This *Pharmaceuticals and Medical Devices Safety Information (PMDSI)* is issued based on safety information collected by the Ministry of Health, Labour and Welfare (MHLW). It is intended to facilitate safer use of pharmaceuticals and medical devices by healthcare providers. The PMDSI is available on the Pharmaceuticals and Medical Devices Agency (PMDA) Medical Product Information web page (<http://www.pmda.go.jp/english/index.html>) and on the MHLW website (<http://www.mhlw.go.jp/>, only available in Japanese language).

Available information is listed here



Access to the latest safety information is available via PMDA Medi-navi.

Medi-navi is an email service that provides essential safety information released by the MHLW and PMDA. By registering, you can receive this information on the day of release.



Published by
Ministry of Health, Labour and Welfare



Pharmaceutical Safety and Environmental Health Bureau,
Ministry of Health, Labour and Welfare
1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo
100-8916 Japan

Translated by
Pharmaceuticals and Medical Devices Agency



Office of Safety I,
Pharmaceuticals and Medical Devices Agency
3-3-2 Kasumigaseki, Chiyoda-ku, Tokyo
100-0013 Japan E-mail: safety.info@pmda.go.jp

This English version of PMDSI 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. The PMDA shall not be responsible for any consequence resulting from use of this English version.

Pharmaceuticals and Medical Devices Safety Information

No. 340 February 2017

Ministry of Health, Labour and Welfare & Pharmaceutical Safety and Environmental Health Bureau, Japan

[Outline of Information]

No.	Subject	Measures	Outline of Information	Page
1	Precautions Concerning Recurrent and Similar Medical Accidents		The Japan Council for Quality Health Care collected information of medical accidents between July 1, 2015 and December 31, 2015. This section presents the recurrent incidents and others as confirmed by the analysis of the incidents by the Pharmaceuticals and Medical Devices Agency.	4
2	Revision of Precautions (No. 281)	<i>P</i>	Iguratomod, and 2 others	10
3	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post-marketing Phase Vigilance as of December 31, 2016.	12
Reference	Precautions Regarding Handling of Fire During Long-Term Oxygen Therapy (LOT)		Fatal fire accidents caused by smoking, etc., have occurred repeatedly in patients on LOT. Healthcare professionals, patients, and their families should be advised again not to smoke during LOT and to keep the oxygen concentrator away from sources of fire, such as a stove.	15

P: Revision of Precautions *C*: Case Reports

Reporting of safety information such as adverse reactions to the Minister of Health, Labour and Welfare is a duty of medical and pharmaceutical providers.

If medical and pharmaceutical providers such as physicians, dentists, and pharmacists detect adverse reactions, infections associated with drugs or medical devices, or medical device adverse events, it is mandatory for such providers to report them to the Minister of Health, Labour and Welfare directly or through the marketing authorization holder. As medical and pharmaceutical providers, drugstore and pharmacy personnel are also required to report safety issues related to drugs and medical devices.

Abbreviations

ADR	Adverse drug reaction
EPPV	Early Post-marketing Phase Vigilance
GAD	General Affairs Division
HPB	Health Policy Bureau
HUS	Haemolytic uraemic syndrome
JCQHC	Japan Council for Quality Health Care
JIMGA	Japan Industrial and Medical Gases Association
LOT	Long-term oxygen therapy
MAH	Marketing authorization holder
MHLW	Ministry of Health, Labour and Welfare
PFSB	Pharmaceutical and Food Safety Bureau
PMDA	Pharmaceuticals and Medical Devices Agency
SD	Safety Division
TTP	Thrombotic thrombocytopenic purpura

Precautions Concerning Recurrent and Similar Medical Accidents

1. Introduction

The Ministry of Health, Labour and Welfare (MHLW) and Pharmaceuticals and Medical Devices Agency (PMDA) are analyzing information on medical accidents and near-miss events collected as a part of the Project to Gather Medical Near-Miss/Adverse Event Information and the Project to Gather and Analyze Pharmaceutical Near-Miss Events run by the Japan Council for Quality Health Care (JCQHC). The MHLW and PMDA also strive to caution healthcare professionals by issuing notifications on the prevention of medical accidents related to pharmaceuticals and medical devices and by preparing the “PMDA Medical Safety Information”.

However, as a result of recent analysis of cases reported to the JCQHC between July 1, 2015 and December 31, 2015, the occurrence of the following events that had been cautioned in the notifications or “PMDA Medical Safety Information” was confirmed.

Therefore, in addition to detailing confirmed recurrent incidents, this section will especially focus on “Incidents of prescription error of pneumococcal vaccines”.

2. Major Recurrent Incidents

(1) Prescription errors of pneumococcal vaccines

- Incident report

An infant under 2 years of age was vaccinated with “Pneumovax NP” instead of “Prevenar 13 Suspension Liquid for Injection”, which was the intended vaccine.^(Note)

The administration error was not recognized on the day of vaccination. During a visit to a nearby facility on a later day, the physician noticed a potential error in administration when viewing the lot stickers placed on the vaccination column of the Mother and Child Health Handbook.

The underlying cause was an insufficient checking function in each step from order of the vaccine to administration including a dispensing system where vaccines were requested on a collective, rather than individual, basis for outpatients. The physician who administered the vaccine had assumed that it was “Prevenar 13 Suspension Liquid for Injection”.

(Note) There are two pneumococcal vaccines on the market: “Pneumovax NP” (Pneumococcal Polysaccharide Vaccine, 23 Valent) intended for pediatric patients aged 2 and above and “Prevenar 13 Suspension Liquid for Injection (Pneumococcal 13-valent Conjugate Vaccine)” for pediatric patients aged 2 months to less than 6 years as well as elderly patients aged 65 and above. Sufficient efficacy cannot be obtained if the products are administered to patients whom they are not intended for and safety has not been established for such patients.

- Preventative measures for recurrence adopted by the facility where the incident occurred
Dispensing of vaccines was switched to an individual patient basis system, and rigorous verification by the pharmacy department of the age of patients based on the birth dates was agreed upon. In addition, several measures were adopted when administering the vaccine such as double checks done by the physician and nurse as well as having family members confirm the drug name.
- Related notifications or precautions
Joint Notification of Health Policy Bureau (HPB) Notification No. 1029-2 and Pharmaceutical and Food Safety Bureau (PFSB) / Safety Division (SD) Notification No. 1029-7 dated October 29, 2010
“Preventative Measures for Administration errors of Pneumococcal Vaccines (request for precaution and dissemination to medical institutions, etc.)” (Only available in Japanese language)
<http://www.pmda.go.jp/files/000144932.pdf>

Details of the Notification (revised based on changes in indications since the release of the notification [underlined parts are revised])

<Precaution>

1. There are different products for different age groups of patients for pneumococcal vaccines.
2. Medical institutions should exercise caution when vaccinating patients by sufficiently confirming the age group indicated on the package insert and that the proper vaccine is being administered to the appropriate patient. Specifically, pediatric patients aged 2 to less than 6 years as well as elderly patients aged 65 and above are subjects for both products, and the vaccine used should be determined after careful consideration of the indications of both products.
3. Medical institutions and pharmaceutical wholesale distributors should use the brand name when prescribing, dispensing, sending or receiving orders for pneumococcal vaccines. In addition, measures to prevent vaccination errors should be adopted such as confirming the ages of patients or confirming the presence/absence of underlying diseases. Caution should especially be exercised in medical institutions that are likely to use both products, such as medical institutions with a pediatric department.

<References>

Specific incidents of vaccination errors

- Orders were made to the wholesale distributor by nonproprietary name, "pneumococcal vaccines", for the purpose of vaccinating a pediatric patient under the age of 2. The wholesale distributor delivered "Pneumovax NP", and the patient was vaccinated with this product.
- The pediatric outpatient department requested for a "pneumococcal vaccine" to the pharmacy department. The pharmacy department provided "Pneumovax NP" that had been used from before by other departments, and the patient was vaccinated with this product.
- A medical facility, which had been delivered both "Pneumovax NP" and "Prevenar 13 Suspension Liquid for Injection" by the wholesale distributor before, submitted an order for "pneumococcal vaccines". The wholesale distributor delivered "Pneumovax NP", and a patient who was under the age of 2 was vaccinated with this product.
- A handwritten prescription for "pneumococcal vaccine" was submitted, and the pharmacy department dispensed "Prevenar 13 Suspension Liquid for Infection" to an adult patient, who was then vaccinated with this product.

December 2014 Project to Gather Medical Near-Miss/Adverse Event Information Medical Safety Information No.97 (only available in Japanese language)

"Mistakes in product selection of pneumococcal vaccines"

http://www.med-safe.jp/pdf/med-safe_97.pdf *Figure 1

<Subsequent precautions from related companies>

November 2015 MSD K.K., Pfizer Japan Inc. (only available in Japanese language)

"Request to prevent vaccination errors Pneumovax NP/Prevenar 13 Suspension Liquid for Injection"

<http://www.pmda.go.jp/files/000208100.pdf> *Figure 2



肺炎球菌ワクチンを接種する際、対象者の年齢が決まれていることを知らず、製剤の選択を間違えて接種した事例が2件報告されています(集計期間:2011年1月1日～2014年10月31日)。この情報は、第23回報告書「個別のテーマの検討状況」(P106)で取り上げた内容を元に作成しました。

肺炎球菌ワクチンは、製剤によって接種対象者の年齢が決まっています。

接種対象者の年齢	出生時	2ヶ月	2歳	6歳	65歳
プレベナー13 水性懸濁注 (沈降13価肺炎球菌 結合型ワクチン)			2ヶ月齢以上 6歳未満		65歳以上*
ニューモ バックスNP (肺炎球菌ワクチン)			2歳以上		

*1 PMDA「医療用医薬品の添付文書情報」より(平成26年11月1日現在)
 *2 平成26年6月20日に65歳以上に接種適応を拡大した。
 ◆ニューモバックスNPの添付文書の「接種不適当者」に「2歳未満の者では、含有される荚膜型抗原の一部に対して十分応答しないことが知られており、また本剤の安全性も確立していないので投与しないこと」と記載されています。
 ◆報告された事例2件は、2歳未満の小児にニューモバックスNPを接種した事例です。

Figure 1

誤接種防止のためのお願い
 ニューモバックス®NP/プレベナー13®水性懸濁注

2015年11月
MSD株式会社

ニューモバックス®NPおよびプレベナー13®水性懸濁注は、両剤とも肺炎球菌による感染症を予防するワクチンですが、『**接種対象者**』、『**接種経路**』が異なります。

接種対象者：ニューモバックス®NPは、2歳未満の者への接種はできません。ご使用の際は、いまだご注意くださいようお願い申し上げます。

接種経路：プレベナー13®水性懸濁注の高齢者（65歳以上）に対する接種経路は「筋肉内注射」のみです。ニューモバックス®NPの接種経路は、「筋肉内注射」または「皮下注射」となっています。65歳以上の方にプレベナー13®水性懸濁注を接種される際は、**ニューモバックス®NPと接種経路が異なること**にご留意ください。

	ニューモバックス®NP	プレベナー13®水性懸濁注
投与・接種対象者	2歳以上で肺炎球菌による重篤疾患に罹患する危険が高い次のような個人及び患者（高齢者等） 【詳細は添付文書参照】※2,3	高齢者：65歳以上 小児：2か月齢～6歳未満 【詳細は添付文書参照】※1
接種経路	筋肉内または皮下	筋肉内 皮下
生物学的製剤基準・有効成分名	肺炎球菌ワクチン（23価肺炎球菌荚膜ポリサッカライドワクチン）	沈降13価肺炎球菌結合型ワクチン（無毒性変異型テトラ毒素結合体）
製剤写真		
剤形	バイアル	プレフィルドシリンジ
会社名	MSD株式会社	ファイザー株式会社

※1：生後6週未満または6歳以上の者に対する安全性及び有効性は確立していない。（プレベナー13®水性懸濁注：小児等への接種）
 ※2：ニューモバックス®NP 投与・接種対象者：(1) 腫瘍患者、(2) 臓腑出血性疾患、あるいはその他の原因で肺機能不全である患者、(3) 心腎疾患の慢性疾患、腎不全、肝機能障害、糖尿病、慢性胆道疾患等の臨床効果のある患者、(4) 高齢者、(5) 免疫抑制作用を有する治療が予定されている患者を治療開始から2週間以上前日以上の年齢のある患者
 ※3：2歳未満の者では含有される荚膜型抗原の一部に対して十分応答しないことが知られており、また本剤の安全性も確立していないので投与しないこと。（ニューモバックス®NP：接種不適当者）

「**接種不適当者を含む接種上の注意**」等は、各製品の製品添付文書をご参照ください。 *：接種年齢対象外

<適応年齢>	0か月	1	2	3	4	5	6	～9	～65	(歳)
ニューモバックス®NP										2歳以上の肺炎球菌による重篤疾患に罹患する危険が高い個人および患者 <筋肉内または皮下>
プレベナー13®水性懸濁注										2か月齢～6歳未満の小児 <皮下>

国立感染症研究所感染症学センター「予防接種における間違いを防止するために100ヶ所でもご利用いただき、誤接種防止にご協力いただきますようお願い申し上げます。 URL：http://www.nih.go.jp/niid/images/vaccine/machigai-boshi.pdf
 【製品に関するお問い合わせ先】 MSDカスタマーサポートセンター 0120-024-797（医療関係者の方）
 受付時間：月～金 9:00～17:30（土日祝日・弊社休日を除く）

Figure 2

(2) Other recurrent and similar incidents

(Analysis results of cases reported to the JCQHC between July 1, 2015 and December 31, 2015)
 The following chart is a list of medical accident information and recurrence of near-miss accidents, etc.

[Pharmaceuticals]

No.	Content	Preventative Measures for Recurrence and Related Notifications
1	Rectal injuries due to use of glycerin enemas	Enemas should be given in the left lateral position as much as possible and do not try to force insertion if any resistance is felt or if the patient complains about pain, etc. (It is possible that the tip of the tube is hitting against the rectal wall and may cause perforation) <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> PMDA Medical Safety Information No. 34 "Precautions in Handling of Glycerin Enemas" https://www.pmda.go.jp/files/000153582.pdf </div>
2	Accidental ingestion of PTP sheets	The following measures are implemented to prevent accidental ingestion of Press Through Packages (PTP) sheets: (1) Sheets should not be cut into individual pieces when dispensing, administering, etc. drugs; (2) patients and family, etc. should be instructed about storage and administration methods (including supervision during oral administration of patients who are anticipated to have difficulty managing drug administration on their own); and (3) dispensing drugs as a one dose package as necessary after consultation with the prescribing physician.

		<p>Joint Notification of HPB/General Affairs Division (GAD) Notification No. 0915-2, PFSB/GAD Notification No. 0915-5, and PFSB/SD Notification No. 0915-1 dated September 15, 2010 “Preventative measures for accidental ingestion of PTP sheet (request for precaution and dissemination to medical institutions and pharmacies)” (Only available in Japanese language) http://www.pmda.go.jp/files/000145758.pdf</p>
3	Error in dosage unit of insulin administered	<p>When preparing insulin, confirm that there are no errors in unit conversion (i.e. number of mL). (1mL of insulin injection fluid is 100 units) Be cautious about mix-ups between insulin syringes and other syringes.</p> <p>PMDA Medical Safety Information No. 23 “Precautions in Handling of Insulin Syringes” https://www.pmda.go.jp/files/000153172.pdf</p>

[Medical Devices]

No.	Content	Preventative Measures for Recurrence and Related Notifications
1	Burns due to heated tips of electric scalpels, etc.	<p>As a general rule, tips of electric scalpels or lasers should not be placed directly on top of drapes. Depending on the surgical situation, use of holsters or silicon mats could be helpful as well.</p> <p>PMDA Medical Safety Information No. 33 “Accidental Burns during Surgery” https://www.pmda.go.jp/files/000153041.pdf</p>
2	Removal of tubes and lines	<p>Before changing the patient’s body position or moving the patient, make sure to carefully observe whether lines will be caught, and confirm whether infusion stands and drainage bags should be moved.</p> <p>PMDA Medical Safety Information No. 36 “Accidental Removal of Tubes and Lines” https://www.pmda.go.jp/files/000153760.pdf</p>
3	Incorrect intubation of nasogastric tubes	<p>After intubation, confirm the position of the tube by using multiple methods. (Confirmation of correct tube positioning may be difficult to determine by the whooshing sound alone.)</p> <p>PMDA Medical Safety Information No. 42 “Precautions in Handling of Nasogastric Tubes” https://www.pmda.go.jp/files/000153901.pdf</p>
4	Fire occurrence with use of electric scalpel in a patient with an endotracheal tube for administering oxygen	<p>As a general rule, surgical scalpels should be used for tracheostomy when administering oxygen. Perform hemostasis with careful monitoring for any oxygen leak.</p> <p>PMDA Medical Safety Information No. 14 “Precautions in Handling of Electric Scalpels (Part 1)” https://www.pmda.go.jp/files/000153260.pdf</p>

3. Newly Prepared PMDA Medical Safety Information

While recurrent incidents of administration error of antirheumatic methotrexate preparations were introduced in Pharmaceuticals and Medical Devices Safety Information No. 333, new PMDA Medical Safety Information was prepared in November 2016.

PMDA Medical Safety Information No. 49
 "Precautions against Misuse (Overdose) of Antirheumatic Methotrexate Preparations"
<https://www.pmda.go.jp/files/000214904.pdf>

Medical Safety Information
 Pharmaceuticals and Medical Devices Agency
<http://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html>

No. 49 November 2016

Medical Safety Information

Pharmaceuticals and Medical Devices Agency

Pmda No. 49 November 2016

Precautions against Misuse (Overdose) of Antirheumatic Methotrexate Preparations (Part 2)

POINT Key points for safe use

1 How to take antirheumatic methotrexate preparations

- Methotrexate for treatment of rheumatoid arthritis is an oral drug with a special dosing regimen requiring rest period (drug is not taken).

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
When taken once weekly	Morning <small>Take a dose</small>	Rest period (no drug time)					
When taken twice weekly	Morning <small>Take a dose</small>	Evening <small>Take a dose</small>	Rest period (no drug time)				
When taken three times weekly	Morning <small>Take a dose</small>	Evening <small>Take a dose</small>	Morning <small>Take a dose</small>	Rest period (no drug time)			

Repeat this dosing regimen every week

Taking methotrexate without a rest period by mistake may cause serious adverse reactions such as bone marrow depression!

1/3

Medical Safety Information
 Pharmaceuticals and Medical Devices Agency
<http://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html>

No. 49 November 2016

2 Precautions on handling antirheumatic methotrexate preparations (1)

(Case) A patient with rheumatoid arthritis brought a methotrexate preparation on admission with no information on the date and time of dosing, and a nurse delivered the drug to the patient without a rest period.

- Date and time of dosing should be indicated in the specified field when the drug is dispensed and delivered.

Fill in the dosing date and time!!

Methotrexate Capsule 2 mg
Drug use the drug on the date and time of each use.

MEDC (day of week)
morning/evening

This drug should be taken without a rest period.

Correction sticker for dosing dates

Take on the enclosed date and time.

MEDC (day of week)
morning/evening

Note: Rest period is required. Please be careful.

The dosing date and time are often not filled in, leading to countless cases of dosing errors. Check the patient's dosing schedule and fill in the dosing date and time.

Ajuno Pharmaceutical Corp.
Methotrexate Tablets 2 mg

Pfizer Japan Inc.
Rheumatrex Capsules 2 mg

Meiji Seika Pharma Corp.
Methotrexate Tablets 2mg "TANABE"

Green Pharmaceutical Co. Ltd.
Methotrexate Capsules 2mg "SAWAJ"

Shono Chemical Co. Ltd.
Methotrexate Capsules 2mg "SH"

Tsumi Pharmaceutical Co. Ltd.
Methotrexate Capsules 2 mg "TOWA"

Daiichi K.K.
Methotrexate Capsules 2 mg "SANDOZ"

3 Precautions on handling antirheumatic methotrexate preparations (2)

(Case) A rheumatoid arthritis patient who had taken a methotrexate preparation for several years decided, without consulting a healthcare professional, to take the unused methotrexate preparation that had not been prescribed in the past, without a rest period.

- Even patients who have been taking methotrexate preparations for many years may not have a correct understanding of the dosing regimen. Provide repeated instruction about the dosing regimen, as appropriate for the patient's level of understanding.
- Check the patient's adherence to dosing and the amount of unused medication, to prevent the misuse of unused medication.

Additionally, make use of materials for preventing incorrect dosing that have been prepared by the companies providing methotrexate preparations.

-Example materials-

The Ministry of Health, Labour and Welfare (MHLW) issued notifications related to PMDA Medical Safety Information No. 49.

- Safety Division (SD), Pharmaceutical and Food Safety Bureau (PFSB) Notification 08200E1 on August 26, 2008 "Preventive Measures against Medical Accidents regarding Misuse (Overdose) of Antirheumatic Methotrexate Preparations"
- Joint Notification of General Affairs Division (GAD), Health Policy Bureau (HPB) Notification 1020001, PFSB/GAD Notification 1020001, and PFSB/SD Notification 1020001 issued October 30, 2008 "Handling of Antirheumatic Methotrexate Preparations for Prevention of Misuse (Overdose) (precautions)"

These notifications are published on the Pharmaceuticals and Medical Devices Agency website (<http://www.pmda.go.jp>) in Plain-reading Safety Measures in Information Services in Medical Safety Information - Medical Safety Measures for Pharmaceuticals and Medical Devices (only available in Japanese language). You can also view information on the package inserts of the antirheumatic methotrexate preparations listed in this Medical Safety Information (<https://www.pmda.go.jp/fmda/center/infocenter/>) (only available in Japanese language).

About this information

This Medical Safety Information is issued by the Pharmaceuticals and Medical Devices Agency for pharmaceuticals and medical devices. It is not intended to be used as a substitute for the information provided in the package inserts of the pharmaceuticals and medical devices. It is not intended to be used as a substitute for the information provided in the package inserts of the pharmaceuticals and medical devices.

Access to the most up-to-date safety information is available via PMDA mail-out.

PMDDA

Published by PMDA
 Pharmaceuticals and Medical Devices Agency

E-mail: safety_info@pmda.go.jp
http://www.pmda.go.jp/english/index_e.html

This product is an oral drug with a special dosing regimen requiring a rest period (when the drug is not administered), and it is important for healthcare professionals to understand the following precautions when dispensing, distributing, providing guidance on administration on the product, etc.

- Date and time of dosing should be indicated in the specified field when the drug is dispensed and delivered.
- Even patients who have been taking methotrexate preparations for many years may not have a correct understanding of the dosing regimen. Provide repeated instructions about the dosing regimen, as appropriate for the patient's level of understanding.
- Check the patient's adherence to dosing and the amount of unused medication to prevent misuse of unused medication.

4. Requests to Healthcare Professionals

Preventative measures for recurrence and related notifications have been presented this time for each distinct recurrent incident. In addition to re-confirming the management structure within the facility, please refer to the aforementioned information when providing guidance to patients and families, etc.

Please also refer to "PMDA Medical Safety Information" for details of other incidents for which caution should be exercised as well as "Medical Safety Information" issued by JCQHC which uses illustrations to alert caution.

(References)

1. MHLW: Survey on Safe Use of Pharmaceuticals and Medical Devices
(Only available in Japanese language)
<http://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000057965.html>
2. PMDA: Survey Results on Safe Use of Pharmaceuticals, Medical Devices, and Regenerative Medicines (Only available in Japanese language)
<http://www.pmda.go.jp/safety/info-services/medical-safety-info/0004.html>
3. PMDA Medical Safety Information
<https://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html>
4. JCQHC: Medical Safety Information
<http://www.med-safe.jp/contents/english/index.html>

2

Revision of Precautions (No. 281)

This section presents details of revisions to the Precautions section of package inserts and brand names of drugs that have been revised in accordance with the Notifications dated January 10, 2017.

1

Miscellaneous metabolism agents-Miscellaneous

Iguratimod

Brand name	Careram Tablets 25 mg (Eisai Co., Ltd.), Kolbet Tablets 25 mg (Toyama Chemical Co., Ltd.)
Adverse reactions (clinically significant adverse reactions)	Pancytopenia, <u>agranulocytosis</u> , and leukopenia: Pancytopenia, <u>agranulocytosis</u> , and leukopenia may occur. Patients should be carefully monitored through periodic testing, etc. If any abnormalities are observed, appropriate measures such as discontinuation of administration should be adopted.

2

Antineoplastics – Miscellaneous

Lenalidomide hydrate

Brand name	Revlimid Capsules 2.5 mg and 5 mg (Celgene K.K.)
Important Precautions	<u>Reactivation of hepatitis B virus may occur among hepatitis B virus carriers or patients who have a history of being infected (i.e. HBs antigen negative and HBc antibody or HBs antibody positive) following administration of lenalidomide hydrate. The presence or absence of hepatitis B virus infection should be confirmed prior to administering this drug and appropriate measures should be adopted before the administration of this drug. After beginning the administration of this drug, attention should be paid to the occurrence of signs or symptoms related to reactivation of the hepatitis B virus through continuous hepatic function tests, monitoring of hepatitis virus markers, etc.</u>
Adverse reactions (clinically significant adverse reactions)	Infections: Serious infections such as pneumonia or sepsis may occur. <u>Reactivation of hepatitis B virus may also occur.</u> Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued and appropriate measures should be adopted.

3

Biological preparations-Miscellaneous

Interferon beta-1b (genetical recombination)

Brand name	Betaferon Subcutaneous Injection. 9.6 million IU (Bayer Yakuin, Ltd.)
Adverse reactions (clinically significant adverse reactions)	<u>Thrombotic thrombocytopenic purpura (TTP) and haemolytic uraemic syndrome (HUS):</u>

TPP (primary symptoms: thrombocytopenia, haemolytic anaemia with confirmed schistocytes, neuropsychological symptoms, pyrexia, and renal impairment) and HUS (primary symptoms: thrombocytopenia, haemolytic anaemia with confirmed schistocytes, and acute renal failure) may occur. Patients should be carefully monitored through periodic blood tests (platelet counts, red blood cell counts, etc.) and renal function tests, etc. If any abnormalities are observed, administration of this drug should be discontinued and appropriate measures should be adopted.

List of Products Subject to Early Post-marketing Phase Vigilance

Early Post-marketing Phase Vigilance (EPPV) was established in 2001. This unique system for new drugs refers to any safety assurance activities that are conducted within a period of 6 months just after marketing of a new drug. It is imposed that its marketing authorization holder (MAH) is responsible for collecting adverse drug reaction (ADR) from all of the medical institutions where the drugs are used and taking safety measures. The aim of the EPPV is to promote the rational proper use of drugs in medical treatments, and to promptly take actions for prevention of the serious ADR. EPPV is specified as a condition of approval.

(As of December 31, 2016)

⊙: Products for which EPPV was initiated after December 1, 2016

Nonproprietary name		Name of the MAH	Date of EPPV initiate
Brand name			
⊙	Carglumic Acid Carbaglu Dispersible Tablets 200 mg	Pola Pharma Inc.	December 22, 2016
⊙	Canakinumab (Genetical Recombination) Ilaris for Subcutaneous Injection 150 mg ^{*1}	Novartis Pharma K.K.	December 19, 2016
⊙	Eplerenone Selara Tablets 25, 50 mg ^{*2}	Pfizer Japan Inc.	December 19, 2016
⊙	Lomitapide Mesilate Juxtapid Capsules 5, 10, 20 mg	Aegerion Pharmaceuticals Inc.	December 15, 2016
⊙	Dienogest DINagest Tablets 1 mg, DINagest OD Tablets 1 mg ^{*3}	Mochida Pharmaceutical Co., Ltd.	December 2, 2016
⊙	Pasireotide Pamoate Signifor LAR Kit for I. M. Injection 20, 40, 60 mg	Novartis Pharma K.K.	December 2, 2016
	Albutrepenonacog Alfa (Genetical Recombination) Idelvion I.V. Injection 250, 500, 1000, 2000	CSL Behring K.K.	November 29, 2016
	Rifaximin Rifxima Tablets 200 mg	Aska Pharmaceutical. Co., Ltd.	November 29, 2016
	Budesonide Zentacort Capsules 3 mg	Zeria Pharmaceutical Co., Ltd.	November 29, 2016
	Alogliptin Benzoate/Metformin Hydrochloride Inisync Combination Tablets	Takeda Pharmaceutical Company Limited	November 29, 2016
	Zoledronic Acid Hydrate Reclast for I.V. Injection 5 mg	Asahi Kasei Pharma Corporation	November 25, 2016
	Ponatinib Hydrochloride Iclusig Tablets 15 mg	Otsuka Pharmaceutical Co., Ltd.	November 21, 2016
	Selexipag Uptravi Tablets 0.2 mg, 0.4 mg	Nippon Shinyaku Co., Ltd.	November 21, 2016
	Ixekizumab (Genetical Recombination) Taltz 80 mg Syringe for SC Injection, Taltz 80 mg Auto-Injector for SC Injection	Eli Lilly Japan K.K.	November 21, 2016
	Grazoprevir Hydrate	MSD K.K.	November 18, 2016

Nonproprietary name	Name of the MAH	Date of EPPV initiate
Brand name		
Grazyna Tablets 50 mg		
Elbasvir Erelsa Tablets 50mg	MSD K.K.	November 18, 2016
Elotuzumab (Genetical Recombination) Empliciti I.V. Injection 300 mg, 400 mg	Bristol-Myers Squibb K.K.	November 18, 2016
Bilastine Bilanoa Tablets 20 mg	Taiho Pharmaceutical Co., Ltd.	November 18, 2016
Telmisartan/Amlodipine Besilate/ Hydrochlorothiazide Micatio Combination Tablets	Nippon Boehringer Ingelheim Co., Ltd.	November 18, 2016
Idarucizumab (Genetical Recombination) Prizbind Intravenous Solution 2.5 g	Nippon Boehringer Ingelheim Co., Ltd.	November 18, 2016
Desloratadine Desalex Tablets 5 mg	MSD K.K.	November 18, 2016
Adapalene/Benzoyl Peroxide Epiduo Gel	Galderma S.A.	November 4, 2016
Brodalumab (Genetical Recombination) Lumicef Subcutaneous Injection 210 mg Syringe	Kyowa Hakko Kirin Co., Ltd.	September 30, 2016
Adalimumab (Genetical Recombination) Humira for SC Injection 40 mg syringe 0.8 mL, 40 mg syringe 0.4 mL, 80 mg syringe 0.8 mL ^{*4}	AbbVie GK	September 28, 2016
Aripiprazole Abilify Tablets 1 mg, 3 mg, 6 mg, 12 mg, OD Tablets 3 mg, 6 mg, 12 mg, powder 1%, oral solution 0.1% ^{*5}	Otsuka Pharmaceutical Co., Ltd.	September 28, 2016
Propranolol Hydrochloride Hemangioliol Syrup for Pediatric 0.375% ^{*6}	Maruho Co., Ltd.	September 16, 2016
Progesterone OneCrinone 90 mg Progesterone Vaginal Gel	Merck Serono Co., Ltd.	September 7, 2016
Alirocumab (Genetical Recombination) Praluent Subcutaneous Injection pen 75 mg, 150 mg, Syringe 75 mg, 150 mg	Sanofi K.K.	September 5, 2016
Levodopa/Carbidopa Hydrate Duodopa enteral combination solution	AbbVie GK	September 1, 2016
Lacosamide Vimpat Tablets 50 mg, 100 mg	UCB Japan Co. Ltd.	August 31, 2016
Sodium Picosulfate Hydrate, Magnesium Oxide, Anhydrous Citric Acid Picoprep Combination Powder	Ferring Pharmaceuticals Co., Ltd.	August 31, 2016
Carfilzomib Kyprolis Intravenous Infusions 10 mg, 40 mg	ONO Pharmaceutical Co., Ltd.	August 31, 2016
Nivolumab (Genetical Recombination) Opdivo Intravenous Infusions 20 mg, 100 mg ^{*7}	ONO Pharmaceutical Co., Ltd.	August 26, 2016
Remifentanil Hydrochloride Ultiva Intravenous 2 mg, 5 mg ^{*8}	Janssen Pharmaceutical K.K.	August 26, 2016
Vigabatrin Sabril 500mg Powder	Sanofi K.K.	July 27, 2016

Nonproprietary name		Name of the MAH	Date of EPPV initiate
Brand name			
	Elvitegravir, Cobicistat, Emtricitabine, Tenofovir Alafenamide Fumarate	Japan Tobacco Inc.	July 8, 2016
	Genvoya Combination Tablets		

- *1 Familial mediterranean fever, Tumour necrosis factor receptor-associated periodic syndrome, Mevalonate kinase deficiency/Hyper IgD syndrome
- *2 Chronic cardiac failure
- *3 Improvement of pain in adenomyosis uteri
- *4 Non-infectious intermediate, posterior and panuveitis
- *5 Irritability associated with autism spectrum disorder in childhood
- *6 Infantile haemangioma
- *7 Radically unresectable or metastatic renal cell carcinoma
- *8 Analgesia in maintaining general anesthesia of children

(Reference)

Precautions Regarding Handling of Fire during Long-Term Oxygen Therapy (LOT)

1. Introduction

Long-term oxygen therapy (LOT) is an at-home treatment for chronic respiratory failure patients to inhale highly-concentrated oxygen by using an oxygen concentrator, liquid oxygen units, and oxygen cylinders (hereinafter referred to as an “oxygen concentrator”).

The oxygen concentrator can be used safely when properly used in accordance with the instructions in the package insert and the user’s manual. Since oxygen is a combustion-enhancing gas, however, sources of fire should be handled with the utmost care. The package insert and the user’s manual contain precautions not to put any sources of fire close to the oxygen concentrator. Moreover, the MHLW and the Japan Industrial and Medical Gases Association (JIMGA) have prepared and distributed leaflets and videos for handling of fire during LOT to alert patients and their families.

However, fatal fire accidents believed to be caused by smoking, etc. have still occurred repeatedly in patients using LOT. Accordingly, healthcare professionals, patients, and their families are advised again to take thorough precautions.

Table 1 shows “Cases of serious health damage due to fire in the houses of patients using LOT” for which information was updated as of the end of November 2016 by the JIMGA.

2. Request for taking thorough safety measures

As the MHLW and JIMGA have alerted repeatedly against fire accidents, patients using LOT and their families need to take the following precautions against handling of fire when using the oxygen concentrator. Healthcare professionals are advised again to thoroughly alert patients and their families about the following precautions.

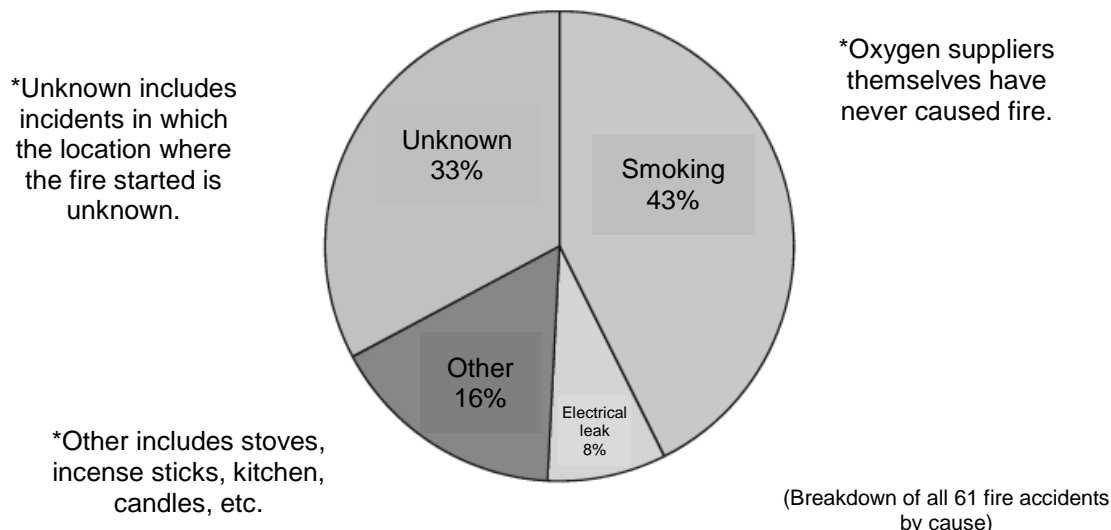
- (1) Sources of fire, including smoking near an oxygen concentrator while inhaling high-concentration oxygen, may cause items such as cannulas and clothing to ignite, resulting in severe burn injuries or house fires.
- (2) Any sources of fire should not be put within 2 meters of an oxygen concentrator in use. Smoking is strictly prohibited especially during oxygen inhalation.
- (3) Oxygen will not cause items such as cannulas and clothing to ignite or cause home fires when properly used in accordance with the user’s manual and appropriate precautions against fire. You are advised to inhale in accordance with the instructions given by the doctor without being unduly afraid.

<References>

1. MHLW: Precautions Regarding Handling of Fire During LOT
(Only available in Japanese language)
http://www.mhlw.go.jp/stf/houdou/2r98520000003m15_1.html
2. JIMGA: Cases of serious health damage due to fire in the houses of patients using LOT
(Only available in Japanese language)
http://www2.jimga.or.jp/dl/iryō/all/top/HOT_jiko.pdf
3. JIMGA: Precautions against Handling of Fire during LOT
(Only available in Japanese language)
<http://www.jimga.or.jp/front/bin/ptlist.phtml?Category=7041>

Table 1 Cases of serious health damage due to fire in the houses of patients using LOT (Prepared by JIMGA [as of the end of November 2016])

<Breakdown by Causes of Fire Accidents>



No.	Date of Incident	Prefecture	Age (Gender)	Damage	Cause (including assumptions)
1~52	December 2003 – December 2014			50 deaths, 2 serious injuries	Smoking, electrical leak, stove, etc.
53	February 2015	Osaka	80s (Male)	Death (death by fire)	(Unknown)
54	April 2015	Chiba	80s (Female)	Death	(Unknown)
55	May 2015	Saitama	60s (Male)	Death (death by fire)	(Unknown)
56	June 2015	Shizuoka	70s (Female)	Burns over the entire body (serious injury)	(Unknown)
57	November 2015	Aichi	80s (Male)	Death	(Unknown: possibly extension cord)
58	December 2015	Ibaraki	80s (Male)	Death (death by fire)	(Unknown)
59	January 2016	Shimane	80s (Male)	Death (death by fire)	(Unknown)
60	March 2016	Okayama	70s (Female)	Death (death by fire)	(Unknown: possibly smoking)
61	April 2016	Hiroshima	60s (Male)	Death	Smoking

***Accidents since October 2003 studied/analyzed through member companies of JIMGA.**

*Criteria for reports: "Fire accidents that occurred in the houses of patients using LOT and in which the patient either died or suffered a serious injury"

(Not limited to fires caused by smoking; fires with unidentified causes should be reported.)