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- 3 Human Medicines Research and Development Support
- 4 Guideline on influenza vaccines submission and
- 5 procedural requirements
- 6 Regulatory and procedural requirements module Draft

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8 This module will replace the procedural requirements of the following guidelines:

- Procedural advice on the submission of variations for annual update of human influenza inactivated vaccines applications in the centralised procedure (EMA/CHMP/BWP/99698/2007 Rev. 2)
- Guideline on submission of marketing authorisation applications for pandemic influenza vaccines through the centralised procedure (EMEA/CPMP/4986/03)

Comments should be provided using this <u>template</u>. The completed comments form should be sent to <u>vwp@ema.europa.eu</u>

Keywords	Submission	and	procedural	requirements,	influenza	vaccines,
	inactivated,	LAIV,	seasonal, pr	e-pandemic, par	ndemic, ann	nual strain
	update, pand	lemic s	strain update			

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17	Guideline	on	influenza	vaccines	_	submission	and
18	procedural	regu	uirements				

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1. Introduction (background)

- 51 The need to update the current guidelines regarding the development of influenza vaccines was
- recognised in the wake of the 2009-2010 influenza pandemic, as the Agency conducted its "lessons"
- 53 learned" exercise. Since then, experience has also been gained through the evaluation of scientific
- advice and marketing authorisation applications for influenza vaccines.
- As announced in the Concept paper, ¹ the revision of the guidelines on influenza vaccines has been
- organised with the aim of developing a consolidated influenza guideline that covers the regulatory,
- 57 quality, non-clinical and clinical aspects of influenza vaccine development and dossier submission. The
- 58 present module compiles with the regulatory and procedural requirements for the different types of
- influenza vaccines, in line with the scope described under section 2.
- Subject to the eligibility criteria, marketing authorisation applications for influenza vaccines can be
- 61 submitted either at centralised or national level. The centralised procedure is mandatory where the
- 62 application falls within the scope of the Annex of Regulation (EC) No 726/2004, in particular where the
- 63 vaccine virus has been prepared using one of the techniques mentioned in the Annex, e.g. reverse
- 64 genetics.

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- 65 This guideline lays down the procedural aspects related to the submission of marketing authorisation
- 66 applications for influenza vaccines and subsequent updates of vaccine composition in the centralised
- 67 procedure.

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69 **2. Scope**

- 70 This module provides guidance on marketing authorisation applications and subsequent updates of
- vaccine composition for influenza vaccines in the centralised procedure to be used in seasonal, pre-
- 72 pandemic or pandemic settings.

74 3. Legal basis and relevant guidelines

- 75 This module should be read in conjunction with Directive 2001/83/EC and its Annex I; Regulation (EC)
- No 726/2004; Regulation (EC) No 1234/2008 and Chapter 5 of the Notice to Applicants.
- 77 This module should also be read in conjunction with the corresponding scientific guidelines on influenza
- vaccines and the European Pharmacopoeia.

80 4. Regulatory and procedural requirements for influenza

81 vaccines

4.1. Seasonal influenza vaccines

- This section provides an overview of the procedures that would apply to a marketing authorisation application (MAA) for this type of product and for subsequent strain changes.
 - ¹ Concept paper on the revision of guidelines for influenza vaccines

4.1.1. Requirements for marketing authorisation application

- 86 A MAA for a seasonal influenza vaccine can be submitted to the Agency, upon confirmation of eligibility
- 87 to the centralised procedure. For any seasonal vaccines manufactured by means of one of the
- 88 techniques mentioned in the Annex of Regulation (EC) No 726/2004, e.g. reverse genetics, the use of
- 89 the centralised procedure is mandatory.

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- 90 Submission of a new seasonal vaccine is expected to be based upon a comprehensive dossier. The
- 91 Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 92 Document (CTD) should be followed.
- 93 A standard evaluation process is intended to be followed, unless a request for accelerated assessment
- 94 is justified by the applicant and accepted by the CHMP. Once adopted by the CHMP, the opinion is
- 95 forwarded to the Commission for the decision-making process.
- 96 Applicants are advised to consult the relevant aspects of the pre-authorisation procedural advice on
- 97 the submission of centralised MAAs as published on the Agency website, with regard to practical
- aspects such as the number of applications or the fees.

4.1.2. Requirements for applications to change vaccine composition (seasonal strain update)

4.1.2.1. Selection of the seasonal strains in the EU

- 102 Seasonal influenza vaccines for human use authorised via the centralised procedure may be varied
- annually according to Article 18 of Regulation (EC) No 1234/2008 in order to update their strain
- 104 composition in preparation for the influenza season.
- 105 Twice a year, typically in February for the northern hemisphere and in September for the southern
- 106 hemisphere, WHO recommends the influenza A and B virus strains which should be used for the
- 107 production of seasonal vaccine for the coming influenza season. However, there remains flexibility
- 108 within these recommendations to take into consideration the specificities of the epidemiological
- 109 situation in the European Union and to adapt these recommendations as appropriate. In this respect,
- the European Medicines Agency (hereinafter the 'Agency') publishes every year, usually in March, an
- 111 EU recommendation, including the recommended reassortants for the manufacture of seasonal
- 112 influenza vaccines.
- 113 Based on the EU recommendation, any strain replacements for authorised vaccines are approved via
- the procedure described in Section 4.1.2.2 (see section on seasonal strain update; quality and clinical
- modules of the influenza guideline).

4.1.2.2. Details of the procedure

- 117 The variation application should be submitted as a type II B.I.a.5 by the recommended target annual
- deadline, which will be published every year together with the EU annual strain(s) recommendations
- on the EMA website. The guideline on the details of the various categories of variations to the terms of
- marketing authorisations for medicinal products for human use and the Notice to Applicants, Volume
- 121 2B on the Presentation and format of the dossier Common Technical Document (CTD) should be
- 122 followed.

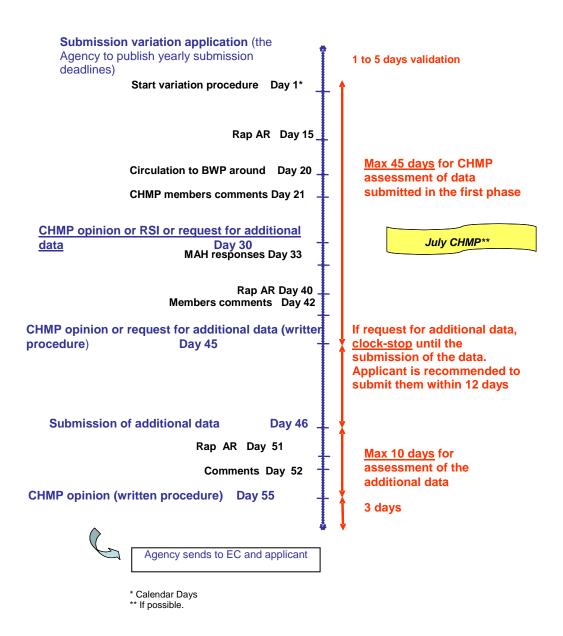
- 123 The content of the application is defined in Annex I of this module. No changes other than the ones
- related to the new strains may be introduced in the product information.

- 125 Applicants are advised to consult the post-authorisation procedural advice on the handling of variations
- 126 as published on the Agency website, with regard to some practical aspects such as the number of
- 127 applications or the fees.
- 128 The scope of the variation to be mentioned in the variation application form is "annual update of Union
- 129 human influenza vaccine strain(s)".
- 130 In accordance with Article 18 of Commission Regulation (EC) No 1234/2008, a 'two step' approach
- submission is foreseen i.e. submission of the quality documentation, followed, if necessary, by the
- 132 submission of additional data:
- First step: within 45 days of the validation, the CHMP adopts an opinion to approve or refuse the
- variation application or the CHMP suspends the procedure (clock-stop) by adopting a request for
 - additional data A request for supplementary information (RSI) without suspending the procedure
- may be issued at D30.

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- Second step: where a request for additional data has been adopted, the marketing authorisation
- 138 holder (MAH) is recommended to submit these additional data within 12 days from the adoption of
 - the request for additional data. Upon receipt of this data, the procedure is restarted and the CHMP
- adopts an opinion within 10 days.
- 141 Within 3 days from the adoption of the opinion, the Agency sends the opinion to the MAH and the
- 142 European Commission. This will be followed by a Commission decision to amend the terms of the
- marketing authorisation.
- MAHs are advised to liaise with the Agency in advance of the submission of the variation, especially in
- view of possible deviation from the recommended deadlines.



149 4.2. Pre-pandemic (zoonotic) influenza vaccines

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4.2.1. Requirements for marketing authorisation application for a prepandemic (zoonotic) influenza vaccine

Zoonotic influenza vaccines (also known as pre-pandemic vaccines) are intended for immunisation in the context of outbreaks of zoonotic influenza viruses with pandemic potential, including use when there is anticipation of a possible pandemic due to the same or a similar strain.

155	A MAA for a	zoonotic influenza	vaccine can	be submitted	to the Agency	, μροη confirm	nation of	eliaibility
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- to the centralised procedure. For any zoonotic vaccines manufactured by means of one of the
- techniques mentioned in the Annex of Regulation (EC) No 726/2004, e.g. reverse genetics, the use of
- the centralised procedure is mandatory.
- 159 Submission of a new pre-pandemic vaccine is expected to be based upon a comprehensive dossier. The
- Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 161 Document (CTD) should be followed.
- 162 A standard evaluation process is intended to be applied, unless a request for accelerated assessment is
- justified by the applicant and accepted by the CHMP. Once adopted by the CHMP, the opinion is
- forwarded to the Commission for the decision-making process.
- Applicants are advised to consult the relevant aspects of the pre-authorisation procedural advice on
- the submission of centralised MAA as published on the Agency website, with regard to practical aspects
- such as the number of applications or the fees.

4.2.2. Requirements for applications to change vaccine composition (zoonotic strain change)

- 170 Replacement of the vaccine virus in a zoonotic influenza vaccine should be processed via a type II
- 171 B.I.a.5 variation application.

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- 172 The Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 173 Document (CTD) should be followed.
- 174 Applicants are advised to consult the relevant aspects of the post-authorisation procedural advice on
- the handling of variations as published on the Agency website, with regard to some practical aspects
- such as the number of applications or the fees.

4.3. Pandemic influenza vaccines

4.3.1. Marketing authorisation granted prior to the recognition of a pandemic situation ('pandemic preparedness vaccine')

- 181 In order to prepare for a pandemic situation, applicants are recommended to submit a marketing
- authorisation application for a pandemic vaccine containing a strain with pandemic potential (so-called
- 183 'pandemic preparedness vaccine').
- 184 This type of vaccine is based on the concept formerly known as 'mock-up' that mimics the future
- pandemic influenza vaccine in having the same manufacture and control and being of the same
- 186 construct, notably the antigen content, excipients and adjuvant system.
- 187 The marketing authorisation application should be supported by a 'core pandemic dossier' including
- 188 data on the potential pandemic strain(s) (see relevant modules for data requirements). When a
- pandemic situation is duly recognised by the WHO or the Union, the MAH should submit a variation
- application ('pandemic strain update') as per Article 21 of Regulation (EC) No 1234/2008 to include the
- 191 declared pandemic strain in the pandemic vaccine ('pandemic strain update'). This variation will be
- reviewed under an accelerated timeframe.

- 193 'Pandemic preparedness vaccines' are indicated for immunization against potential pandemic strain(s)
- once an official pandemic declaration in the EU has been recognized and after that the variation to
- include the declared pandemic strain has been authorised.

196 4.3.1.1. Requirements for marketing authorisation application

- 197 Once eligibility to the centralised procedure is confirmed, the applicant can submit an application
- 198 supported by a 'core pandemic dossier' which will include data on relevant strain(s) (see relevant
- 199 modules for data requirements).
- 200 It is expected that a comprehensive dossier could not be generated outside a pandemic situation. A
- 201 submission of a MAA based on a non-comprehensive dossier under the conditional marketing
- authorisation may therefore be considered if the applicant is likely to be in a position to provide the
- 203 comprehensive clinical data after the declaration of a pandemic and if other requirements laid down in
- 204 Regulation (EC) No 507/2006 are fulfilled; an appropriate justification on the regulatory framework
- claimed, the type of data missing and whether these data could be generated should then be included
- in the dossier.
- 207 A standard evaluation process is intended to be applied, unless a request for accelerated assessment is
- justified by the applicant. Once adopted by the CHMP, the opinion is forwarded to the Commission for
- the decision-making process.
- 210 Applicants are encouraged to liaise with the European Commission before the grant of the marketing
- 211 authorisation to request an exemption to the obligation to place the product on the Union market
- 212 within three years (so-called 'sunset clause'). The MAH should provide a justification based on public
- 213 health grounds and explaining the exceptional circumstances. A copy of the request should be
- 214 addressed to the European Medicines Agency.
- 215 The Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 216 Document (CTD) should be followed.
- 217 Applicants are advised to consult the relevant aspects of the pre-authorisation procedural advice on
- 218 the submission of centralised MAA as published on the Agency website, with regard to some practical
- aspects such as the number of applications.
- 220 Special fees incentives apply for applications based on a 'core pandemic dossier.' The Explanatory note
- 221 on fees available on the Agency website should be consulted.
- In case such application is envisaged, it is recommended to initiate discussions with competent
- 223 authorities as early as possible.

4.3.1.2. Requirements for applications to change vaccine composition (pandemic strain

- 225 change) during a pandemic situation
- 226 Where a pandemic situation is duly recognised by the WHO or the Union, a variation application may
- 227 be accepted to include the declared pandemic strain in the pandemic vaccine ('pandemic strain
- 228 update'), if appropriate.
- 229 As per Article 21 of Regulation (EC) No 1234/2008, it may be exceptionally and temporarily acceptable
- 230 that certain non-clinical or clinical data are missing. In the latter, the MAH will have to submit the
- 231 missing non-clinical and clinical data within the time limit set in the marketing authorisation.
- The Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 233 Document (CTD) should be followed.

234	Applicants ar	e advised to	consult the	relevant a	spects of the	pre-authorisation	procedural	advice or

- the handling of variations as published on the Agency website, with regard to some practical aspects
- 236 such as the number of applications.
- 237 Special fees incentives apply for applications based on a 'core pandemic dossier'. The Explanatory note
- on fees should be consulted.
- A pandemic variation will be assessed following an accelerated timetable. It is emphasised that an
- 240 efficient interaction with the EMA Pandemic Task Force (ETF) to discuss critical issues in advance of the
- submission would be essential to allow acceleration of the variation procedure.
- Once adopted by the CHMP, the opinion is forwarded to the Commission for the decision-making
- process which may be accelerated as appropriate.
- The post-authorisation procedures to submit the missing data and to vary the terms of the marketing
- authorisation may be reviewed under an accelerated timeframe if appropriate.

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4.3.2. Marketing authorisation submitted during a pandemic situation

4.3.2.1. 'Emergency procedure'

- 249 It may become necessary to authorise a new pandemic vaccine in a pandemic situation duly
- 250 recognised by the WHO or the Union.
- 251 It is expected that it may be difficult to generate a comprehensive dossier at the time of the MAA. A
- submission of a MAA based on a non-comprehensive dossier under the conditional marketing
- authorisation may therefore be considered if the applicant is likely to be in a position to provide the
- comprehensive clinical data after the declaration of a pandemic and if other requirements laid down in
- 255 Regulation (EC) No 507/2006 are fulfilled; an appropriate justification on the regulatory framework
- claimed, the type of data missing and whether these data could be generated should then be included
- in the dossier.
- 258 The Notice to Applicants, Volume 2B on the Presentation and format of the dossier Common Technical
- 259 Document (CTD) should be followed.
- 260 If a MAA for a pandemic vaccine is submitted in such circumstances, the evaluation will be accelerated
- as appropriate.

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- Once adopted, the opinion will be forwarded to the Commission for the decision-making process, which
- will also be accelerated as appropriate.
- Applicants are advised to consult the relevant aspects of the pre-authorisation procedural advice on
- the submission of centralised MAA as published on the Agency website, with regard to practical aspects
- such as the number of applications.
- 267 In case such application is envisaged, the applicant is recommended to initiate discussions with the
- 268 competent authorities as early as possible.

4.3.2.2. Other routes of authorisation for a pandemic vaccine

- 270 In exceptional circumstances, depending on the emergency of the situation and where no 'pandemic
- 271 preparedness vaccine' is already authorised for a specific vaccine construct, variations of a relevant

- seasonal or pre-pandemic influenza vaccine, based on Article 21 of Regulation (EC) No 1234/2008, may be considered during a pandemic, if feasible from a regulatory and scientific perspective.
- In case such an exceptional situation is envisaged, it is recommended to initiate discussions with competent authorities as early as possible, in particular to discuss the modalities and particulars of these applications.

5. Annex 1 - Seasonal strain change ('Annual update')

5.1. Variation application(s) content

0	IMPORTANT REMARK
1 2 3	nly changes related to the new strains used may be introduced. No other changes are allowed to be processed via the 'fast track' procedure.
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6 vario 7 huma 8 <u>targ</u> e	rariation should be submitted as a type II variation as stated in the guideline on the details of the us categories of variations to the terms of marketing authorisations for medicinal products for in use and should contain the documentation described below. , by the <u>Agency recommended</u> <u>et annual deadline</u> , which will be <u>published every year together with the EU Annual n(s) recommendations</u> .
	variation application should follow the EU recommendations of the Notice to Applicants, Volume 2B e Presentation and format of the dossier Common Technical Document (CTD).
3 varia	e note that only relevant sections of the CTD corresponding to the supporting data for the tion application should be submitted. Any absence of a study/test report requires a justification in ppropriate summary/overview.
5.1 .	First step submission – quality
7 devia	upporting documentation described below should be included within the variation application. Any tion (absence of data or additional data) should be justified and discussed with the competent orities before the submission of the application.
9 Mod	ule 1: - Administrative Information and Prescribing Information
1.0 1 1.1 2 1.2 3 1.3 4 1.3.7	Cover Letter Comprehensive Table of Contents (not required if submitted in eCTD format) Application Form (European Variation Application Form as published in the NTA, Volume 2C). Product Information SmPC, Labelling and Package Leaflet Note: Only changes related to the strains used for the season may be introduced in these
)	<u>texts.</u>
1.4	Information about the Quality Expert: The relevant expert declaration(s) and signature must be provided, corresponding to the quality overall summary submitted in Module 2.
Mod	ule 2: Common Technical Document Summaries
2.1 2.2 2.3	CTD Table of Contents (Module $2-3$) (not required if submitted in eCTD format) CTD Introduction Quality Overall Summary (addendum to "previous" Quality Overall Summary)
subs	ule 3: Chemical-pharmaceutical and biological information for chemical active tances and biological products
7 8 3.2.5 9 3.2.5 0 1	

323		 analytical protocols (including test results on seed lots)*
324		
325	3.2.S.2.	·
326	3.2.S.2.	
327		- monovalent bulks:
328		- manufacturing process strain specific changes
329		- validation of critical manufacturing steps (new strain)
330		1. inactivation
331		2. splitting efficiency
332	2254	1 Charification (conv. of approved charifications in a tabular format)
333 334	3.2.S.4. 3.2.S.4.	
335 336	3.2.S.4. 3.2.S.4.	
337	3.2.3.4	of the first three monovalent bulks from
338		- each working seed lot of a new master seed lot of new strains
339		 each working seed lot or a new master seed lot or new strains each working seed lot from previously approved master seed lot where the procedure
340		of working seed lot preparation is different from the approved procedure
341	3.2.S.7	Drug Substance: Stability (Stability tests on the active substances: results from
342	3.2.3.7	monovalent bulks where they are used for more than one year)
343	3.2.P.1	Composition
344	3.2.P.2	·
345		strains) and Certificate of Analysis of batch(es) used in clinical trial(s) when available
346		(either in quality or in clinical submission)
347	3.2.P.3	· · · · · · · · · · · · · · · · · · ·
348	3.2.P.5	·
349		a tabular format)
350	3.2.P.5	.3 Validation of analytical procedures; validation of SRD test for new strains (either using
351		trivalent bulk or drug product)
352	3.2.P.8	Drug Product: Stability
353		- Stability data from previous season
354		- Stability commitment(s)
355		- Post-approval stability protocol for the final lot Stability
356		
357		Where the seed virus is tested for extraneous agents using PCR, and if further to discussion
358	with the	Agency and rapporteurs the need for additional PCR testing of the seed has been agreed,
359	these da	ata should be included in this application.
360	5.1.2.	Second step submission –additional data requested
361	Relevan	t sections of the CTD variation application should be submitted depending on the type of
362		al data submitted.
302	addition	ai data subinitted.
363	Module	1: - Administrative Information and Prescribing Information
364	1.0	Cover Letter
365		Comprehensive Table of Contents (not required if submitted in eCTD format)
366	1.4	Information about the Expert(s):
367		The relevant expert declaration(s) and signature(s) must be provided, corresponding to the
368		Summary submitted in Module 2
000		canmary submitted in include 2
369	Module	2: Common Technical Document Summaries
370		CTD Table of Contents (Module 2 – 5) (not required if submitted in eCTD format)
371		CTD Introduction
372		Quality Overall Summary (revised to first addendum to Quality Overall Summary), if
373		appropriate
374		Clinical Overview (addendum to the previous Clinical Overview), if appropriate
375 376	2.7	Clinical Summary (addendum to the previous Clinical Summary), if appropriate

Module 3, 4, 5

378 To be submitted if additional data on quality, non-clinical* and/or clinical* data were requested.

* In principle, there is no need to provide clinical data to support seasonal strain updates. Vaccine performance should be monitored by means of product-specific effectiveness studies and enhanced safety surveillance. The reactogenicity profile of influenza vaccines after annual strain updates should be investigated in the population indicated for each vaccine (including children if applicable) in order to confirm acceptable tolerability of the newly recommended strain(s). For details, see Guideline on influenza vaccines, non-clinical and clinical module (EMA/CHMP/VWP/457259/2014).