



Seminarios OPS DDCC/RACSEL LACPASS

“DDCC:VS dataset: Desde el conjunto de datos a la generación del documento HL7 FHIR.”

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Objetivo

El objetivo es que los participantes puedan conocer y describir el conjunto de datos que propone OMS a través de la documentación digital para certificados COVID-19 (*DDCC:VS Digital Documentation of COVID-19 Certificates: Vaccination Status*), en lo que respecta al estado de vacunación, su significado y cada uno de sus elementos, además de su relación con el estándar HL7 FHIR.

Agenda

- Introducción
- Cuestionario DDCC
 - Elementos del cuestionario
- DDCC: VSDocument
 - Descripción
 - Estructura
- Mapeo de datos desde el cuestionario al VSDocument

Introducción CMD DDCC:VS / Principios



- Documentos y regulaciones internacionales tales como:
 - Reglamento sanitario internacional
 - Registros de vacunación en hogares
 - ESAVI
 - Programa de inmunización
- Certificados actuales de otros países

Introducción CMD DDCC:VS / Principios



- Mínima cantidad de datos
- Estándares abiertos
- Disponible en papel y digital
- No se debe sobrecargar el con datos el certificado
 - EIRs (Registro electrónico de inmunización)
 - ESAVI

Para facilitar la implementación, el modelo de datos utilizado ha sido modelado como una guía de mplementación HL7 FHIR



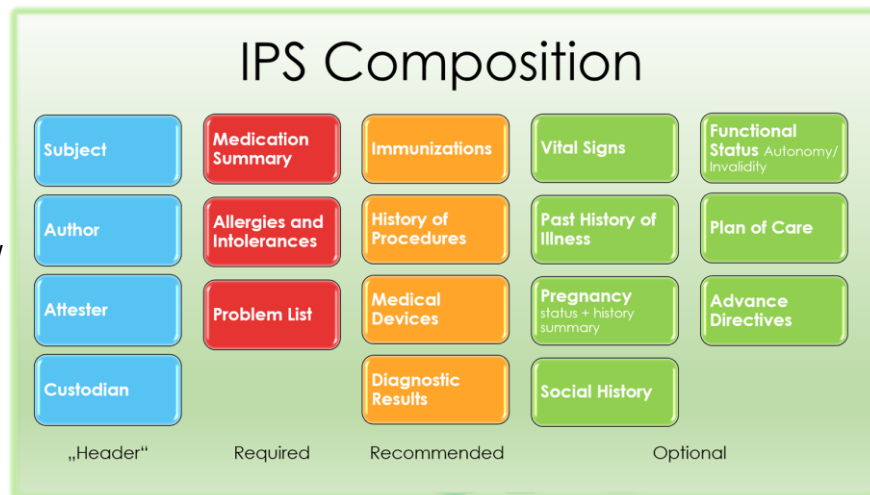
Introducción CMD DDCC:VS

HL7 International Patient Summary Implementation Guide
1.1.0 - CI Build  **HL7** FHIR



La implementación del modelo DDCC ha sido generado a partir del Resumen Internacional de Paciente o IPS (International Patient Summary) *

* <https://build.fhir.org/ig/HL7/fhir-ips/>



Se utiliza la Clasificación Internacional de Enfermedades 11 (CIE-11)

Introducción CMD DDCC

Los datos se encuentran agrupados en 3 grupos



Paciente

- Nombre
- Fecha de Nacimiento
- Identificador Único
- Sexo

Cuadro 10

Encabezado de la DDCC: EV con el sistema de códigos preferido

Etiqueta del elemento de datos	Descripción	Tipo de datos	Sistema de códigos preferido	Tipo de requisito para la continuidad de la atención	Tipo de requisito para el comprobante de vacunación
Nombre	Nombre completo de la persona vacunada.	Cadena	No se aplica	Requerido	Requerido
Fecha de nacimiento	Fecha de nacimiento de la persona vacunada, si se conoce. Si no se conoce, use la fecha de nacimiento asignada para fines administrativos.	Fecha	Fecha completa de acuerdo con la norma ISO 8601 (AAAAMMDD o AAAA-MM-DD)	Requerido	Requerido
Identificador único	Identificador único de la persona vacunada, de acuerdo con las normas vigentes en cada país. Se puede usar más de un identificador único para vincular registros (por ejemplo, identificador nacional, identificador de salud, identificador del sistema de información sobre inmunización, identificador de expediente médico).	Identificador	No se aplica	Optativo: recomendado	Optativo: recomendado

* <https://iris.paho.org/handle/10665.2/55340>

Introducción CMD DDCC

Los datos se encuentran agrupados en 3 grupos



Certificado

- Emisor del certificado
- Identificador del certificado de salud
- Certificado válido a partir de
- Certificado válido hasta
- Versión del sistema del certificado

Cuadro 12
Vaccination certificate metadata

Etiqueta del elemento de datos	Descripción	Tipo de datos	Sistema de códigos preferido	Tipo de requisito para la continuidad de la atención	Tipo de requisito para el comprobante de vacunación
Emisor del certificado	Autoridad u organización autorizada que emitió el certificado de vacunación.	Cadena	No se aplica	Requerido	Requerido
Identificador de certificado de salud	Identificador único utilizado para vincular el estado de vacunación representado en una tarjeta de vacunación en papel a su representación digital.	Identificador	No se aplica	Requerido	Requerido
Certificado válido a partir de	Fecha a partir de la cual el certificado de administración de una vacuna tiene validez. Esta fecha no debe utilizarse para hacer inferencias relacionadas con la salud.	Fecha	Fecha completa de acuerdo con la norma ISO 8601	Optativo	Optativo

* <https://iris.paho.org/handle/10665.2/55340>

Introducción CMD DDCC

Los datos se encuentran agrupados en 3 grupos

Vacuna

- Vacuna o profilaxis
- Marca de la vacuna
- Fabricante de la vacuna
- Titular de la autorización para comercializar la vacuna
- Número de lote de la vacuna
- Fecha de la vacunación
- Vacunación válida a partir de
- Número de dosis
- Total de dosis
- País de vacunación
- Centro de vacunación
- Firma del trabajador de salud
- Enfermedad o agente patógeno objetivo
- Fecha de la próxima dosis

Cuadro 11

Datos correspondientes a cada vacuna administrada, con el sistema de códigos preferido

Etiqueta del elemento de datos	Descripción	Tipo de datos	Sistema de códigos preferido	Tipo de requisito para la continuidad de la atención	Tipo de requisito para el comprobante de vacunación
Vacuna o profilaxis	Descripción genérica de la vacuna o el subtipo de vacuna (por ejemplo, vacuna de ARNm contra la COVID-19, vacuna contra el virus de los papilomas humanos [VPH]).	Código	CIE-11	Requerido	Requerido
Marca de la vacuna	Marca o nombre comercial utilizado para referirse a la vacuna recibida.	Código	Según la definición del Estado Miembro	Requerido	Requerido
Fabricante de la vacuna	Nombre del fabricante de la vacuna recibida (por ejemplo, Serum Institute of India, AstraZeneca). Si no se conoce el fabricante de la vacuna, SE REQUIERE el nombre del titular de la autorización para comercializar la vacuna.	Código	Según la definición del Estado Miembro	Requerido: condicional	Requerido: condicional

* <https://iris.paho.org/handle/10665.2/55340>

1.- Paciente (Encabezado)

Esta sección incluye información del identificador del sujeto de cuidado. El fin de esta sección es capturar la información de la persona vinculada a la vacunación.

Estos se deben capturar una sola vez y deben ser los mismos independiente de la vacuna que la persona reciba

Cuestionario DDCCVSCoreData SetQuestionnaire

Nombre

Nombre completo de la
persona vacunada *



* <https://iris.paho.org/handle/10665.2/55340>

WHO Digital Documentation of COVID-19 Certificates (DDCC)

1.0.0 - CI Build

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Narrative Content XML JSON TTL

22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire

Feedback

LinkId	Text	Cardinality	Type	Description & Constraints
DDCCVSCoreDataSetQuestionnaire	DDCC Questionnaire for an Immunization event.		Questionnaire	http://worldhealthorganization.github.io/ddcc/DDCCVSCoreDataSetQuestionnaire#1.0.0
name	Name	1..1	string	
birthDate	Date of birth	0..1	date	
identifier	Unique identifier	0..1	string	
sex	Sex	0..1	choice	Value Set: AdministrativeGender
vaccine	Vaccine or prophylaxis	1..1	choice	Value Set: WHO Vaccine List (COVID-19)
brand	Vaccine brand	1..1	choice	
manufacturer	Vaccine manufacturer	0..1	choice	
ma_holder	Vaccine market authorization holder	0..1	choice	
lot	Vaccine batch number	1..1	string	
date	Date of vaccine	1..1	date	
vaccine_valid	Vaccination valid from	0..1	date	
dose	Dose number	1..1	integer	
total_doses	Total doses	0..1	integer	
country	Country of vaccination	1..1	choice	Value Set: Iso 3166 Part 1: 3 Letter Codes
centre	Administering centre	1..1	string	
hw	Health worker identifier	0..1	string	
disease	Disease or agent targeted	0..1	choice	Value Set: WHO Disease or Agent Targeted (COVID-19)
due_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
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Cuestionario DDCCVSCoreData SetQuestionnaire

Fecha de nacimiento

Fecha de nacimiento de la
persona vacunada, si se
conoce. *



* <https://iris.paho.org/handle/10665.2/55340>

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Cuestionario DDCCVSCoreData SetQuestionnaire

Identificador único

Identificador único de la persona vacunada, de acuerdo con las normas vigentes en cada país *



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Cuestionario DDCCVSCoreData SetQuestionnaire

Sexo

Documentación de una instancia particular de la información sobre el sexo de la persona vacunada *



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2.- Vacuna

Esta sección incluye datos sobre la vacuna que la persona haya recibido. Es necesario registrar los siguientes datos para cada dosis.

Cuestionario DDCCVSCoreData SetQuestionnaire

Vacuna o profilaxis

Descripción genérica de la
vacuna o el subtipo de
vacuna *



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Cuestionario DDCCVSCoreData SetQuestionnaire

Marca de la vacuna

Marca o nombre comercial
utilizado para referirse a la
vacuna recibida *



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Cuestionario DDCCVSCoreData SetQuestionnaire

Fabricante de la vacuna

Nombre del fabricante de la vacuna recibida (por ejemplo, Serum Institute of India, AstraZeneca). *



* <https://iris.paho.org/handle/10665.2/55340>

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Cuestionario DDCCVSCoreData SetQuestionnaire

*Titular de la autorización para
comercializar la vacuna*

Nombre del titular de la
autorización para
comercializar la vacuna
recibida *



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Cuestionario DDCCVSCoreData SetQuestionnaire

Número de lote de la vacuna

Número de lote de la
vacuna *



* <https://iris.paho.org/handle/10665.2/55340>

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22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire

Feedback

LinkId	Text	Cardinality	Type	Description & Constraints
DDCCVSCoreDataSetQuestionnaire	DDCC Questionnaire for an Immunization event.		Questionnaire	http://worldhealthorganization.github.io/ddcc/DDCCVSCoreDataSetQuestionnaire#1.0.0
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birthDate	Date of birth	0..1	date	
identifier	Unique identifier	0..1	string	
sex	Sex	0..1	choice	Value Set: AdministrativeGender
vaccine	Vaccine or prophylaxis	1..1	choice	Value Set: WHO Vaccine List (COVID-19)
brand	Vaccine brand	1..1	choice	
manufacturer	Vaccine manufacturer	0..1	choice	
ma_holder	Vaccine market authorization holder	0..1	choice	
lot	Vaccine batch number	1..1	string	
date	Date of vaccine	1..1	date	
vaccine_valid	Vaccination valid from	0..1	date	
dose	Dose number	1..1	integer	
total_doses	Total doses	0..1	integer	
country	Country of vaccination	1..1	choice	Value Set: Iso 3166 Part 1: 3 Letter Codes
centre	Administering centre	1..1	string	
hw	Health worker identifier	0..1	string	
disease	Disease or agent targeted	0..1	choice	Value Set: WHO Disease or Agent Targeted (COVID-19)
due_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
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Cuestionario DDCCVSCoreData SetQuestionnaire

Fecha de la vacunación

Fecha en la cual se
administró la vacuna *



* <https://iris.paho.org/handle/10665.2/55340>

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hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

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Vacunación válida a partir de

Fecha en la cual la vacuna
administrada se considera
válida. *

Cuestionario DDCCVSCoreData SetQuestionnaire

Número de dosis

Número de dosis de la
vacuna *



* <https://iris.paho.org/handle/10665.2/55340>

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hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
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Cuestionario DDCCVSCoreData SetQuestionnaire

Total de dosis

Total previsto de dosis
según el plan de atención
y las normas del programa
de inmunización del estado
miembro *



* <https://iris.paho.org/handle/10665.2/55340>

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Cuestionario DDCCVSCoreData SetQuestionnaire

País de Vacunación

País en el cual la persona
ha sido vacunada *



* <https://iris.paho.org/handle/10665.2/55340>

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hw	Health worker identifier	0..1	string	
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due_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

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Cuestionario DDCCVSCoreData SetQuestionnaire

Centro de vacunación

Nombre o identificador del
centro de vacunación
donde se administró la
vacuna *



* <https://iris.paho.org/handle/10665.2/55340>

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manufacturer	Vaccine manufacturer	0..1	choice	
ma_holder	Vaccine market authorization holder	0..1	choice	
lot	Vaccine batch number	1..1	string	
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vaccine_valid	Vaccination valid from	0..1	date	
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country	Country of vaccination	1..1	choice	Value Set: Iso 3166 Part 1: 3 Letter Codes
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hw	Health worker identifier	0..1	string	
disease	Disease or agent targeted	0..1	choice	Value Set: WHO Disease or Agent Targeted (COVID-19)
due_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

Documentation for this format

Cuestionario DDCCVSCoreData SetQuestionnaire

Identificador del trabajador de salud

Es el identificador único
del trabajador de salud
asignado por el Estado
Miembro. *



* <https://iris.paho.org/handle/10665.2/55340>

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Narrative Content

XML

JSON

TTL

22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire

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Cuestionario DDCCVSCoreData SetQuestionnaire

Enfermedad o agente patógeno objetivo

Nombre de la enfermedad
contra la cual protege la
vacuna administrada (por
ejemplo, COVID-19). *



* <https://iris.paho.org/handle/10665.2/55340>

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Cuestionario DDCCVSCoreData SetQuestionnaire

Fecha de la próxima dosis

Fecha en la cual se debería administrar la próxima dosis de la vacuna si se requiere una segunda dosis *



* <https://iris.paho.org/handle/10665.2/55340>

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3.- Certificado

Esta sección incluye datos que el usuario no verá, pero que son necesarios para su certificado. Los estados miembros pueden agregar metadatos específicos, a fin de validar sus propios casos de uso.

Cuestionario DDCCVSCoreData SetQuestionnaire

Emisor del certificado

Autoridad u organización
autorizada que emitió el
certificado de vacunación. *



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Links: Table of Contents | QA Report | Issues | Version History | <https://worldhealthorganization.github.io/ddcc/Questionnaire-DDCCVSCoreDataSetQuestionnaire.html>

Cuestionario DDCCVSCoreData SetQuestionnaire

*Identificador de certificado de
salud*

Identificador único
utilizado para vincular el
estado de vacunación
representado en una
tarjeta de vacunación en
papel a su representación
digital. *



* <https://iris.paho.org/handle/10665.2/55340>

WHO Digital Documentation of COVID-19 Certificates (DDCC)

1.0.0 - CI Build

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This is the continuous build for version 1.0.0. This version is based on the current content of <https://github.com/WorldHealthOrganization/ddcc> and changes regularly.

Narrative Content XML JSON TTL

22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire

Feedback

LinkId	Text	Cardinality	Type	Description & Constraints
DDCCVSCoreDataSetQuestionnaire	DDCC Questionnaire for an Immunization event.		Questionnaire	http://worldhealthorganization.github.io/ddcc/DDCCVSCoreDataSetQuestionnaire#1.0.0
name	Name	1..1	string	
birthDate	Date of birth	0..1	date	
identifier	Unique identifier	0..1	string	
sex	Sex	0..1	choice	Value Set: AdministrativeGender
vaccine	Vaccine or prophylaxis	1..1	choice	Value Set: WHO Vaccine List (COVID-19)
brand	Vaccine brand	1..1	choice	
manufacturer	Vaccine manufacturer	0..1	choice	
ma_holder	Vaccine market authorization holder	0..1	choice	
lot	Vaccine batch number	1..1	string	
date	Date of vaccine	1..1	date	
vaccine_valid	Vaccination valid from	0..1	date	
dose	Dose number	1..1	integer	
total_doses	Total doses	0..1	integer	
country	Country of vaccination	1..1	choice	Value Set: Iso 3166 Part 1: 3 Letter Codes
centre	Administering centre	1..1	string	
hw	Health worker identifier	0..1	string	
disease	Disease or agent targeted	0..1	choice	Value Set: WHO Disease or Agent Targeted (COVID-19)
due_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

Documentation for this format

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Cuestionario DDCCVSCoreData SetQuestionnaire

Certificado válido a partir de

Fecha a partir de la cual el
certificado de administración
de una vacuna tiene validez*



* <https://iris.paho.org/handle/10665.2/55340>

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Narrative Content

XML

JSON

TTL

22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire

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Cuestionario DDCCVSCoreData SetQuestionnaire

Certificado válido hasta

Último día de validez del
certificado de administración
de una vacuna. *



* <https://iris.paho.org/handle/10665.2/55340>

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This is the continuous build for version 1.0.0. This version is based on the current content of https://github.com/WorldHealthOrganization/ddcc and changes regularly.				
Narrative Content XML JSON TTL				
22.151.1 Example Questionnaire: DDCCVSCoreDataSetQuestionnaire Feedback				
LinkId	Text	Cardinality	Type	Description & Constraints
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date	Date of vaccine	1..1	date	
vaccine_valid	Vaccination valid from	0..1	date	
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hcid	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

[Documentation for this format](#)

DDCC: VSDocument

El VSDocument es un documento que es generado a partir de los datos ingresados en el questionnaire



DDCCVSDocument: Bundle

<https://worldhealthorganization.github.io/ddcc/StructureDefinition-DDCCVSDocument.html>

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This is the continuous build for version 1.0.0. This version is based on the current content of <https://github.com/worldhealthorganization/ddcc> and changes regularly.

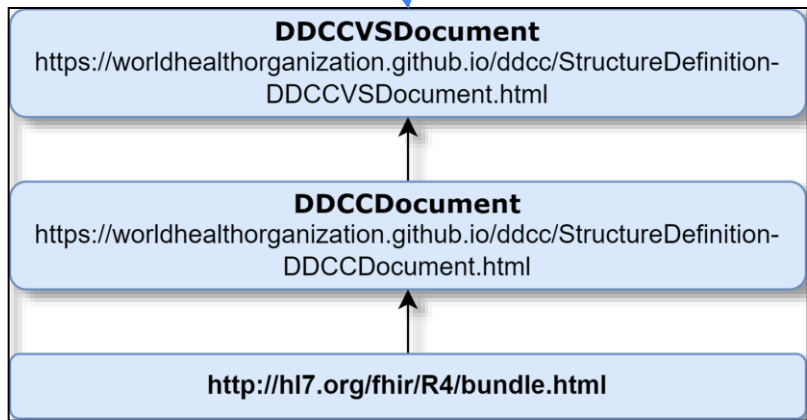
Narrative Content XML JSON TTL

22.151.1 Example Questionnaire: DDCCVSDocument

LinkId	Text	Cardinality	Type	Description & Constraints
DDCCVSDocument	DDCC Questionnaire for an Immunization event.	1..1	Questionnaire	http://worldhealthorganization.github.io/ddcc/DDCCVSDocument#1.0.0
name	Name	1..1	string	
birthDate	Date of birth	0..1	date	
identifier	Unique identifier	0..1	string	
sex	Sex	0..1	choice	Value Set: AdministrativeGender
vaccine	Vaccine or prophylaxis	1..1	choice	Value Set: WHO Vaccine List (COVID-19)
brand	Vaccine brand	1..1	choice	
manufacturer	Vaccine manufacturer	0..1	choice	
ma_holder	Vaccine market authorization holder	0..1	choice	
lot	Vaccine batch number	1..1	string	
date	Date of vaccine	1..1	date	
vaccine_valid	Vaccination valid from	0..1	date	
dose	Dose number	1..1	integer	
total_doses	Total doses	0..1	integer	
country	Country of vaccination	1..1	choice	Value Set: Iso 3166 Part 1: 3 Letter Codes
centre	Administering centre	1..1	string	
hw	Health worker identifier	0..1	string	
disease	Disease or agent targeted	0..1	choice	Value Set: WHO Disease or Agent Targeted (COVID-19)
dur_date	Due date of next dose	0..1	date	
pha	Certificate issuer	1..1	string	
hdi	Health certificate identifier	1..1	string	
valid_from	Certificate valid from	0..1	date	
valid_until	Certificate valid until	0..1	date	

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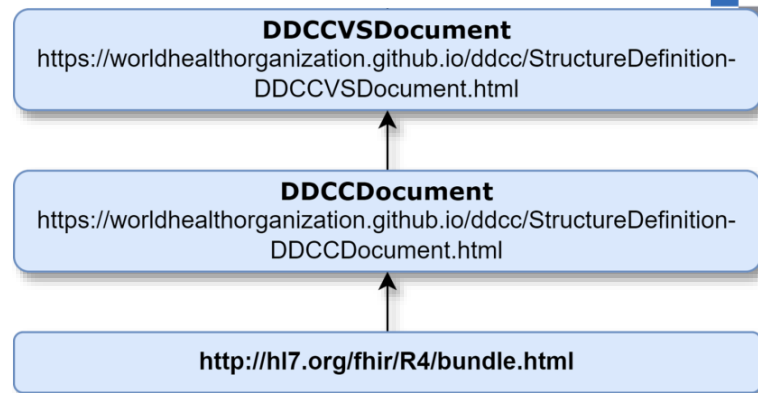


DDCCVSDocument: Bundle



Bundle.

- entry:ddccComposition -> DDCCComposition
- entry:ddccPatient -> DDCCPatient
- entry:ddccOrganization -> DDCCOrganization
- entry:ddccQR -> DDCCDocumentReferenceQR
- entry:ddccImmunization -> DDCCImmunization
- entry:ddccImmunizationRecommendation -> DDCCImmunizationRecommendation



Ir al recurso

Mapecto de datos

Mapecto de datos desde el cuestionario



22.148.1 Example QuestionnaireResponse: DDCC-VS-QuestionnaireResponse-Spanish

LinkId	Text	Definition	Answer
DDCC-VS-QuestionnaireResponse-Spanish		QuestionnaireResponse	
name			Aulo Agerlo
birthDate			2003-03-03
identifier			12345678904
sex			AdministrativeGender male: Male
vaccine			DDCC Codes for ICD11 XM9QW8: COVID-19 vaccine, non-replicating viral vector
brand			DDCC Codes for ICD11 XM4YL8: COVID-19 Vaccine AstraZeneca
manufacturer			DDCC Codes for examples TEST: Test
ma_holder			DDCC Codes for examples TEST: Test
lot			ER8732
date			2021-04-05
vaccine_valid			2021-04-19
docs			



Name	Flags	Card.	Type	Description & Constraints
Bundle	S C	0..*	DDCCDocument	DDCC Document
id	Σ	0..1	id	Logical id of this artifact
meta	Σ	0..1	Meta	Metadata about the resource
implicitRules	? I Σ	0..1	uri	A set of rules under which this content was created
language		0..1	code	Language of the resource content Binding: CommonLanguages (preferred): A
Identifier	S Σ	1..1	Identifier	Persistent identifier for the bundle
type	S Σ	1..1	code	document message transaction transactional response history searchset collection Binding: BundleType (required): Indicates the intended to be used.
timestamp	S Σ	0..1	instant	Required Pattern: document When the bundle was assembled
total	Σ C	0..1	unsignedInt	If search, the total number of matches
Slices for link	Σ	1..*	BackboneElement	Links related to this Bundle Slice: Unordered, Open by value:relation Content/Rules for all slices
link:All Slices				
id		0..1	string	Unique id for inter-element referencing
extension		0..*	Extension	Additional content defined by implementation
modifierExtension	? I Σ	0..*	Extension	Extensions that cannot be ignored even if unused
relation	Σ	1..1	string	See http://www.iana.org/assignments/link-re

Mapecto de datos desde el cuestionario



	A	B	C	D	E	
1			Dataset de QuestionnaireResponse para la DDCC: EV			
2			<i>QuestionnaireResponse dataset for the DDCC:VS</i>			
3			V1.0.0			
4			Ultima actualización: 28-10-2022			
5			Last update: 10-28-2022			
6			Documento de Referencia: Documentación digital de certificados relacionados con la COVID-19: estado de vacunación, Especificaciones técnicas y orientación para su introducción, 27 de agosto del 2021			
7			Reference Document: Digital documentation of COVID-19 certificates, vaccination status, technical specifications and implementation guidance, 27 August 2021			
8	LinkId.DDCCVSCoreDataSetQuestionnaire	Texto <i>Text</i>	Descripción <i>Description</i>	Cardinalidad <i>Cardinality</i>	Tipo <i>Type</i>	Dominio <i>Domain</i>
9	name	Nombre (Name)	Nombre completo de la persona vacunada. (The full name of the vaccinated person.)	1..1	string	
10	birthDate	Fecha de nacimiento (Date of birth)	Fecha de nacimiento de la persona vacunada, si se conoce. Si no se conoce, use la fecha de nacimiento asignada para fines administrativos (The vaccinated person's date of birth (DOB), if known. If unknown, use assigned DOB for administrative purposes)	0..1	date	
11	identifier	Identificador único (Unique identifier)	Identificador único de la persona vacunada, de acuerdo con las normas vigentes en cada país. Se puede usar más de un identificador único para vincular registros (por ejemplo, identificador nacional, identificador de salud, identificador del sistema de información sobre inmunización, identificador de expediente médico) (Unique ID for the vaccinated person, according to the policies applicable to each country. There can be more than one unique ID used to link records (e.g. national ID, health ID, immunization information system ID, medical record ID))	0..1	string	
12	sex	Sexo (Sex)	Documentación de una instancia particular de la información sobre el sexo de la persona vacunada. (Documentation of a specific instance of sex information for the vaccinated person.)	0..1	choice	http://hl7.org/r4/terminology/gender-male

Ir al documento

	A	B	C	D	E	F	
1			Mapecto Dataset a Recursos HL7 FHIR R4				
2			<i>Mapping dataset to HL7 FHIR R4 Resources</i>				
3			V1.0.0				
4			Ultima actualización: 28-10-2022				
5			Last update: 10-28-2022				
6			Guía de Implementación FHIR https://worldhealthorganization.github.io/ddcc/				
7			FHIR Implementation Guide https://worldhealthorganization.github.io/ddcc/				
8	LinkId en QuestionnaireResponse.item	Ruta dentro del Bundle <i>Bundle path</i>	Recurso <i>Resource</i>	Elemento <i>Element</i>	Cardinalidad <i>Cardinality</i>	Tipo de Dato FHIR <i>FHIR Datatype</i>	Valor Fijo <i>Fixed value</i>
20	identifier	bundle.entry.ddccPatient	DDCCPatient	identifier.value	0..1	string	
21	name	bundle.entry.ddccPatient	DDCCPatient	name	1..*	HumanName	
22	name	bundle.entry.ddccPatient	DDCCPatient	name.use	1..1	code	official
23	name	bundle.entry.ddccPatient	DDCCPatient	name.text	1..1	string	
24	sex	bundle.entry.ddccPatient	DDCCPatient	gender	0..1	code	
25	birthDate	bundle.entry.ddccPatient	DDCCPatient	birthDate	0..1	date	
44	pha	bundle.entry.ddccComposition	DDCCVSComposition	author	1..*	Reference	
45	pha	bundle.entry.ddccComposition	DDCCVSComposition	authorReference.type	0..1	uri	



Dudas?
Consultas?



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Ingeniero

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Muchas Gracias