# Gravidanza

## High-level information model

Mapping and Implementation: Parinaz Tabari (ptabari@unisa.it)

#### Core Patient Information (profile: GravPatient, base resource: Patient)

#### Description of demographic and personal details of the pregnant woman

Data	FHIR path	Data type	Comments
element			
Name (first)	Patient.name.given	humanName	Patient.name
Surname	Patient.name.family		
Age	Patient.birthDate	integer	Calculated from birthDate
Gender	Patient.gender	code	Only Female
Date of birth	Patient.birthDate	Date	
Educational	Patient.extension[educationalLevel]	String	
level			
Occupation	Patient.extension[occupation]	String	
Marital	Patient.extension[maritalStatus]	String	
Status			
Italian	Patient.extension[italianLangauge]	Boolean	Yes/No
Language			
Substance	Patient.extension[substanceAddiction]	Boolean	Yes/No
Addiction			
Psychological	Patient.extension[psychologicalTreatment]	Boolean	Yes/No
treatment			

## • Pregnancy details (medical history)

#### Description of pregnancy-related information and medical history

#### (profiles: GravObservation and GravProcedure, base resources: Observation, Procedure)

Data element	FHIR path	Data Type	Comments
Pregnancy	observation.valueCodeableConcept	CodeableConcep t	Pregnancy status (boolean) LOINC: 82810-3 Result: pregnant, not pregnant, unknown
Expected delivery date	Observation.component[ExpectedDeliverydate].code	CodeableConcep t	LOINC: 11778-8, delivery date estimated

	Observation.component[ExpectedDeliveryDate].valueDateTi	dateTime	Estimated
	me		delivery
			date
			(EDD)
Number of	Observation.component[NumberofPregnancies].code	codeableConcept	LOINC:
Pregnancie			11996-6
S			Number of
			pregnancie
			S
	Observation.component[NumberofPregnancies].valueInteger	Integer	Total
			number of
			pregnancie
			S
Undergoin	Procedure[MedicallyAssistedProcreation].code	codeableConcept	
g medically			
assisted			
procreation			

## • Psychological Function/User Experience/Quality of General Health/follow-up:

Although the items are patient-reported outcomes, it is best not to use the QuestionnaireResponse resource. Because we do not record the items of the questionnaires, only the outcomes (final result/score) are important to us. Therefore, using the Observation resource and treating the outcomes like a clinical observation is better.

Data	FHIR path	Data	Comments	Domain	
element	_	type			
Profile: PsychologicalFunctionObservation, base resource: Observation					
K10 score	Observation.extension[k10Score]	Integer	No loinc code	Psychological	
PSS score	Observation.extension[PSSScore]	Integer	Loinc: LL6386-8	function	
MPFI score	Observation.extension[MPFIScore]	Integer	No loinc code		
GSE score	Observation.extension[GSEScore]	Integer	Loinc: 66775-8		
ERQ score	Observation.extension[ERQScore]	Integer	No loinc code		
COPE-	Observation.extension[COPEScore]	Integer	No loinc code		
NVI-25					
score					
BDI-II <mark>item</mark>	Observation.extension[BDIScore]	Integer	Loinc code: 89210-9		
9					
WHOQOL	Observation.extension[WHOQOL	String?	Total score (loinc code):		
BREF	BREFScore	[should be	98944-2		
		integer?!]			
	rExperienceObservation, base reso				
UES-SF	Observation.extension[UES-SF	Integer	No loinc code	User	
score	Score			experience	
SUS score	Observation.extension[SUSScore]	Integer	No loinc code		
ITA BUS B	Observation.extension[ITAScore]	Integer	No loinc code		
score					
uMARS	Observation.extension[uMARSScore]	Integer	No loinc code		
score					
Profile: QualityOfHealthObservation, base resource: Observation					
GHQ score	Observation.extension[GHQSscore]	Integer	No loinc code	Quality of	
SF-36 score	Observation.extension[SFScore]	Integer	Loinc code:	General	
			72001-1 or 62975-8	Health	
			(https://loinc.org/72001-		
			<u>1</u> or		

	https://loinc.org/62975-	
	8) to check?	

• Follow-up: Periodic evaluations and monitoring (Patient Self-Report + Interview)

Profile: FollowUpEncounter, base resource: Encounter

Data	FHIR path	Data type	Comments
element			
Follow-up	Encounter.period.start	dateTime	
date			
PSS score	Encounter.extension[pssScoreFollow]	Integer	Loinc code: LL6386-8
(follow-up)			
Participant	Encounter.extension[participantFeedback]	String	
feedback			