

אפיון FHIR API עבור פרויקט מחקרי הריון ומיילדותי

CMV CGM

של

"המרכז הירושלמי לרפואה חישובית מותאמת אישית"



The Jerusalem Center for
Personalized Computational
Medicine

FHIR-4.01 API

גרסת המסמך 4.0 - Value Sets

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1 Code Systems

1.1 TBD LOINC Codes

Canonical: <http://fhir.outburn.co.il/CodeSystem/loinc-tbd>

Code	Display
method-of-induced-abortion	Method of induced abortion

1.2 Pregnancy & Delivery Profiles Clinical Category Codes

Canonical: <http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category>

Code	Display
1st-del	לידה-שלב ראשון
2nd-del	לידה-שלב שני
episiotomy	הפיזיונומיה וקרעים בתעלת הלידה
bleeding-del	דימום בלידה
bleeding-preg	דימום בהריון
infection-del	זיהומים וחום בלידה
infection	זיהומים וחום
hypertension	יתר לחץ דם
hypertension-preg	יתר לחץ דם בהריון
placenta-obs	מבנה שליה
umbilical-obs	מבנה חבל טבור
anesthesia-compl	סיבוכי הרדמה
umbilical-compl	סיבוכי חבל טבור
placenta-compl	סיבוכי שליה
maternal-compl	סיבוכים אימהיים
amniotic-path	פתולוגיה של מי שפיר

2 Value Sets

2.1 Pregnancy Outcome

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-pregnancy-outcome>

Binding(s):

- Observation[Pregnancy Summary].component[Outcome of pregnancy].valueCodeableConcept (extensible)

System	Code	Display
http://loinc.org	LA14270-5	Live Birth
http://loinc.org	LA14273-9	Induced Abortion

http://loinc.org	LA14272-1	Miscarriage
http://loinc.org	LA14271-3	Stillborn

2.2 Method of Induced Abortion

Canonical: <http://fhir.outburn.co.il/ValueSet/icpm-method-of-induced-abortion>

Binding(s):

- Observation[Pregnancy Summary].component[Method of induced abortion].valueCodeableConcept (extensible)

System	Code	Display
http://snomed.info/sct	288045002	TOP - amniotic injection
http://snomed.info/sct	18302006	Therapeutic abortion by hysterotomy
http://snomed.info/sct	274973002	Dilation of cervix uteri and curettage for termination of pregnancy

2.3 Pregnancy Hospitalization Type

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-pregnancy-hospitalization-type>

Binding(s):

- Observation[Pregnancy Summary].component[Hospitalized or emergency room].valueCodeableConcept (extensible)

System	Code	Display
http://loinc.org	LA15417-1	Hospitalization
http://loinc.org	LA10268-3	Emergency Department

2.4 Pregnancy Diagnoses

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-pregnancy-diagnoses>

Binding(s):

- Condition[Pregnancy Diagnoses].code

System	Code	Display
http://snomed.info/sct	62131008	Couvelaire uterus
http://snomed.info/sct	198903000	Placenta previa with hemorrhage
http://snomed.info/sct	7792000	Placenta previa without hemorrhage
http://snomed.info/sct	237277009	Marginal placental hemorrhage
http://snomed.info/sct	62531004	Placenta previa marginalis
http://snomed.info/sct	87814002	Marginal placenta previa with intrapartum hemorrhage
http://snomed.info/sct	62531004	Placenta previa marginalis
http://snomed.info/sct	119901000119109	Partial placenta previa with hemorrhage
http://snomed.info/sct	24095001	Placenta previa partialis
http://snomed.info/sct	7266006	Total placenta previa with intrapartum hemorrhage
http://snomed.info/sct	15663008	Placenta previa centralis
http://snomed.info/sct	39419009	Hypovolemic shock
http://snomed.info/sct	48194001	Pregnancy-induced hypertension
http://snomed.info/sct	40521000119100	Postpartum pregnancy-induced hypertension
http://snomed.info/sct	398254007	Pre-eclampsia
http://snomed.info/sct	46764007	Severe pre-eclampsia
http://snomed.info/sct	198992004	Eclampsia in pregnancy
http://snomed.info/sct	95605009	HELLP syndrome
http://snomed.info/sct	67359005	Pre-eclampsia added to pre-existing hypertension
http://snomed.info/sct	59566000	Oligohydramnios
http://snomed.info/sct	86203003	Polyhydramnios

2.5 Pregnancy Findings

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-pregnancy-findings>

Binding(s):

- Observation[Pregnancy Findings].component.code

System	Code	Display
http://snomed.info/sct	92297008	Benign neoplasm of placenta
http://snomed.info/sct	721544001	Hemangioma of umbilical cord
http://snomed.info/sct	92297008	Benign neoplasm of placenta
http://snomed.info/sct	60574005	Twin placenta
http://snomed.info/sct	82664003	Placenta succenturiata
http://snomed.info/sct	76380008	Placenta membranacea
http://snomed.info/sct	2437000	Placenta circumvallata
http://snomed.info/sct	268585006	Placental infarct
http://snomed.info/sct	206073008	Fetal or neonatal effect of marginal sinus rupture
http://snomed.info/sct		
http://snomed.info/sct	415105001	Placental abruption
http://snomed.info/sct	75798003	Twin dichorionic diamniotic placenta
http://snomed.info/sct	83787007	Twin monochorionic diamniotic placenta
http://snomed.info/sct	84357006	Twin monochorionic monoamniotic placenta
http://snomed.info/sct	707254000	Amniotic adhesion
http://snomed.info/sct	92297008	Benign neoplasm of placenta
http://snomed.info/sct	721544001	Hemangioma of umbilical cord

2.6 Delivery Procedures

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-procedures>

Binding(s):

- Procedure[Delivery Procedures].code

System	Code	Display
http://snomed.info/sct	816966004	Augmentation of labor using oxytocin
http://snomed.info/sct	177135005	Oxytocin induction of labor
http://snomed.info/sct	236966000	Cervical ripening with Prostaglandin E2

http://snomed.info/sct	408816000	Artificial rupture of membranes
http://snomed.info/sct	425861005	Cervical ripening with balloon
http://snomed.info/sct	177136006	Prostaglandin induction of labor
http://snomed.info/sct	408818004	Induction of labor by artificial rupture of membranes
http://snomed.info/sct	237001001	Augmentation of labor
http://snomed.info/sct	177129005	Surgical induction of labor
http://snomed.info/sct	236965001	Cervical ripening with drug
http://snomed.info/sct	391898007	Fetal oxytocin stress test

2.7 Delivery Procedure - Medications

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-medications>

Binding(s):

- Procedure[Delivery Procedures].usedCode

System	Code	Display
http://snomed.info/sct	48988008	Alprostadil
http://snomed.info/sct	775812003	Ergonovine only product
http://snomed.info/sct	10192006	Prostaglandin PGF2
http://snomed.info/sct	777150005	Meperidine and promethazine only product
http://snomed.info/sct	427035008	Nitrous oxide and oxygen gas analgesia
http://snomed.info/sct	241716000	Patient controlled analgesia
http://snomed.info/sct	144711000146107	Injection of sterile water

2.8 Delivery Method Category

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-method-of-delivery-category>

Binding(s):

- Procedure[Birth].category

System	Code	Display
http://snomed.info/sct	700000006	Vaginal delivery of fetus
http://snomed.info/sct	11466000	Cesarean section

2.9 Method of Delivery

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-method-of-delivery>

Binding(s):

- Procedure[Birth].code

System	Code	Display
http://snomed.info/sct	61586001	Delivery by vacuum extraction

http://snomed.info/sct	177184002	Normal delivery procedure
http://snomed.info/sct	177141003	Elective cesarean section
http://snomed.info/sct	274130007	Emergency cesarean section
http://snomed.info/sct	302383004	Forceps delivery
http://snomed.info/sct	237311001	Complete breech delivery

2.10 Delivery Complication Treatment

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-complication-treatment-procedures>

Binding(s):

- Procedure[Complication Treatment].code

System	Code	Display
http://snomed.info/sct	112926007	Suture of obstetric laceration of vagina
http://snomed.info/sct	79824009	Suture of clitoris
http://snomed.info/sct	28233006	Manual removal of retained placenta
http://snomed.info/sct	391998006	Dilation and curettage of uterus after delivery
http://snomed.info/sct	49149002	Manual postpartum exploration of uterus
http://snomed.info/sct	31939001	Repair of obstetric laceration of cervix
http://snomed.info/sct	49149002	Manual postpartum exploration of uterus
http://snomed.info/sct	392256003	Evacuation of hematoma of vagina
http://snomed.info/sct	777037006	Oxytocin only product
http://snomed.info/sct	387228004	Dinoprost
http://snomed.info/sct	236989008	Abdominal delivery for shoulder dystocia
http://snomed.info/sct	237010009	Suprapubic pressure on fetal shoulder
http://snomed.info/sct	237009004	McRoberts maneuver
http://snomed.info/sct	237012001	Freeing the posterior arm

2.11 Delivery Complication Treatment - Medications

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-complication-treatment-medications>

Binding(s):

- Procedure[Complication Treatment].usedCode

System	Code	Display
http://snomed.info/sct	777037006	Oxytocin only product
http://snomed.info/sct	387228004	Dinoprost

2.12 Delivery Observation Codes

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-obs-code>

Binding(s):

- Observation[Delivery Observations].component.code

System	Code	Display
http://snomed.info/sct	84457005	Spontaneous onset of labor
http://snomed.info/sct	289279004	Placenta healthy
http://snomed.info/sct	109895008	Retained placental fragment
http://snomed.info/sct	268479002	Incomplete placenta at delivery
http://snomed.info/sct	109894007	Retained placenta

2.13 Delivery Diagnoses

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-delivery-diagnoses>

Binding(s):

- Condition[Delivery Diagnoses].code

System	Code	Display
http://snomed.info/sct	34981006	Hypertonic uterine dysfunction
http://snomed.info/sct	249141002	Labor not established
http://snomed.info/sct	43715006	Secondary uterine inertia
http://snomed.info/sct	237320005	Failure to progress in first stage of labor
http://snomed.info/sct	85542007	Perineal laceration involving skin
http://snomed.info/sct	11942004	Perineal laceration involving pelvic floor
http://snomed.info/sct	199931001	Third degree perineal tear during delivery with postnatal problem"
http://snomed.info/sct	16950007	Fourth degree perineal laceration involving anal mucosa
http://snomed.info/sct	249220002	Vaginal tear resulting from childbirth
http://snomed.info/sct	199972004	Laceration of cervix - obstetric
http://snomed.info/sct	79839005	Perineal laceration involving vulva
http://snomed.info/sct	249219008	Genital tear resulting from childbirth
http://snomed.info/sct	249221003	Labial tear
http://snomed.info/sct	262890007	Injury of urinary tract
http://snomed.info/sct	36497006	Traumatic extension of episiotomy
http://snomed.info/sct	83128009	Oliguria
http://snomed.info/sct	44216000	Retained products of conception, following delivery with hemorrhage
http://snomed.info/sct	109895008	Retained placental fragment
http://snomed.info/sct	28911003	Adherent placenta
http://snomed.info/sct	70129008	Placenta accreta
http://snomed.info/sct	9293002	Atony of uterus
http://snomed.info/sct	46502006	Hematoma of vagina during delivery
http://snomed.info/sct	27942005	Shock
http://snomed.info/sct	724490006	Intrapartum hemorrhage co-occurrent and due to obstructed labor with uterine rupture
http://snomed.info/sct	47821001	Postpartum hemorrhage

http://snomed.info/sct	267340006	Maternal pyrexia in labor
http://snomed.info/sct	11612004	Chorioamnionitis
http://snomed.info/sct	10835781000119105	Amniotic fluid embolism in childbirth
http://snomed.info/sct	47821001	Postpartum hemorrhage
http://snomed.info/sct	1148794004	Postpartum hemorrhage with retained placenta

2.14 Past Mother Diagnoses

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-past-mother-diagnoses>

Binding(s):

- Condition(Past Mother Diagnoses).code

System	Code	Display
http://snomed.info/sct	125585007	Female genital tract infection
http://snomed.info/sct	10754701000119100	Genital herpes simplex in mother complicating childbirth
http://snomed.info/sct	428017002	Condyloma acuminata of vulva in pregnancy
http://snomed.info/sct	199112006	Infections of the genital tract in pregnancy
http://snomed.info/sct	307534009	Urinary tract infection in pregnancy
http://snomed.info/sct	45816000	Pyelonephritis
http://snomed.info/sct	233604007	Pneumonia
http://snomed.info/sct	66844003	Generalized infection during labor
http://snomed.info/sct	76571007	Septic shock
http://snomed.info/sct	8762007	Chronic hypertension in obstetric context
http://snomed.info/sct	34165000	Gestational proteinuria
http://snomed.info/sct	718447001	Difficult intubation
http://snomed.info/sct	68052005	Pulmonary aspiration
http://snomed.info/sct	301252002	Finding of respiratory obstruction
http://snomed.info/sct	473459007	Cardiovascular system complication of procedure
http://snomed.info/sct	91175000	Seizure
http://snomed.info/sct	45007003	Low blood pressure
http://snomed.info/sct	161891005	Backache
http://snomed.info/sct	25064002	Headache
http://snomed.info/sct	830275007	Inadvertent dural tap
http://snomed.info/sct	67406007	Disseminated intravascular coagulation
http://snomed.info/sct	428017002	Condyloma acuminata of vulva in pregnancy
http://snomed.info/sct	312155003	Genital infection
http://snomed.info/sct	1125006	Sepsis during labor
http://snomed.info/sct	105593004	Electrolyte imbalance
http://snomed.info/sct	50120008	Abnormal acid-base balance affecting management of mother
http://snomed.info/sct	21420006	Alkalosis
http://snomed.info/sct	34095006	Dehydration

http://snomed.info/sct	21639008	Hypervolemia
http://snomed.info/sct	71785001	Water intoxication syndrome
http://snomed.info/sct	762489000	Acute complication due to diabetes mellitus
http://snomed.info/sct	34486009	Hyperthyroidism
http://snomed.info/sct	40930008	Hypothyroidism
http://snomed.info/sct	10741751000119100	Anemia in mother complicating childbirth
http://snomed.info/sct	34395002	Thrombocytopenia due to hypothermia
http://snomed.info/sct	10750951000119106	Epilepsy in mother complicating childbirth (disorder)
http://snomed.info/sct	199257008	Mental disorders during pregnancy, childbirth and the puerperium
http://snomed.info/sct	230690007	Cerebrovascular accident
http://snomed.info/sct	698247007	Cardiac arrhythmia
http://snomed.info/sct	55565007	Cardiac failure after obstetrical surgery AND/OR other procedure including delivery
http://snomed.info/sct	698638005	Pregnancy induced hypertension with pulmonary edema
http://snomed.info/sct	1144807000	Varicose veins of bilateral lower limbs in pregnancy
http://snomed.info/sct	128053003	Deep venous thrombosis
http://snomed.info/sct	40283005	Thrombophlebitis of superficial veins of lower extremity
http://snomed.info/sct	10742121000119104	Asthma in mother complicating childbirth (disorder)
http://snomed.info/sct	409623005	Respiratory insufficiency
http://snomed.info/sct	200286003	Obstetric air pulmonary embolism
http://snomed.info/sct	166717003	Serum creatinine raised
http://snomed.info/sct	269301005	Renal failure as a complication of care
http://snomed.info/sct	197941005	Frank hematuria
http://snomed.info/sct	866229004	Trauma to urethra and bladder during delivery
http://snomed.info/sct	419076005	Allergic reaction
http://snomed.info/sct	735173007	Anaphylactic shock
http://snomed.info/sct	200164009	Exhaustion during labor

2.15 Umbilical Cord Observation Code

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-umbilical-cord-obs-code>

Binding(s):

- Observation[Umbilical Cord].component.code

System	Code	Display
http://snomed.info/sct	289315001	Umbilical cord normal
http://snomed.info/sct	268863005	Had umbilical cord around neck
http://snomed.info/sct	268863005	Had umbilical cord around neck
http://snomed.info/sct	71151000119105	Umbilical cord three times around neck
http://snomed.info/sct	237307007	Umbilical cord around body

http://snomed.info/sct	289312003	Umbilical cord entangled around baby's limbs
http://snomed.info/sct	86256001	Hematoma of cord
http://snomed.info/sct	268865003	Had short umbilical cord
http://snomed.info/sct	237261008	Long umbilical cord
http://snomed.info/sct	77278008	Velamentous insertion of umbilical cord
http://snomed.info/sct	302945005	Absent blood vessel in umbilical cord
http://snomed.info/sct	27696007	True knot of umbilical cord
http://snomed.info/sct	70603007	Rupture of cord

2.16 Umbilical Cord Complications

Canonical: <http://fhir.outburn.co.il/ValueSet/condition-umbilical-cord-complications>

Binding(s):

- Condition[Umbilical Cord Complications].code

System	Code	Display
http://snomed.info/sct	270500004	Prolapsed cord
http://snomed.info/sct	237305004	Presentation of cord
http://snomed.info/sct	237306003	Cord beside head

2.17 Clinical Findings – Detection Flag

Canonical: <http://fhir.outburn.co.il/ValueSet/observation-clinical-findings-detect>

Binding(s):

- Observation.component.valueCodeableConcept(required)

System	Code	Display
http://snomed.info/sct	260373001	Detected (Qualifier Value)
http://snomed.info/sct	260415000	Not Detected (Qualifier Value)

2.18 Clinical Findings – Positive/Negative

Canonical: <http://fhir.outburn.co.il/ValueSet/observation-clinical-findings-pos-neg>

Binding(s):

- Observation.component.valueCodeableConcept(required)

System	Code	Display
http://snomed.info/sct	10828004	Positive (Qualifier Value)
http://snomed.info/sct	260385009	Negative (Qualifier Value)

2.19 Clinical Findings – Yes/Suspected

Canonical: <http://fhir.outburn.co.il/ValueSet/observation-clinical-findings-yes-sus>

Binding(s):

- Observation.component.valueCodeableConcept

System	Code	Display
http://snomed.info/sct	373066001	Yes (Qualifier Value)
http://snomed.info/sct	415684004	Suspected (Qualifier Value)

2.20 Encounter Status

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-encounter-status>

Binding(s):

- Encounter.statusHistory.status(required)

System	Code	Display
http://hl7.org/fhir/encounter-status	arrived	Arrived
http://hl7.org/fhir/encounter-status	in-progress	In Progress
http://hl7.org/fhir/encounter-status	triaged	Triaged
http://hl7.org/fhir/encounter-status	onleave	On Leave
http://hl7.org/fhir/encounter-status	Finished	Finished

2.21 Encounter Class

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-encounter-class>

Binding(s):

- Encounter.class.code (required)
- Encounter.classHistory.code (required)

System	Code	Display
http://terminology.hl7.org/CodeSystem/v3-ActCode	IMP	inpatient encounter
http://terminology.hl7.org/CodeSystem/v3-ActCode	EMER	emergency
http://terminology.hl7.org/CodeSystem/v3-ActCode	AMB	ambulatory

2.22 Encounter Admit Source

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-encounter-admit-source>

Binding(s):

- Encounter.hospitalization.admitSource.code (required)

System	Code	Display
http://terminology.hl7.org/CodeSystem/admit-source	emd	From accident/emergency department
http://terminology.hl7.org/CodeSystem/admit-source	outp	From outpatient department
http://terminology.hl7.org/CodeSystem/admit-source	hosp-trans	Transferred from other hospital
http://terminology.hl7.org/CodeSystem/admit-source	other	Other

2.23 Condition Clinical Status

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-condition-clinical-status>

Binding(s):

- Condition.clinicalStatus.code (required)

System	Code	Display
http://terminology.hl7.org/CodeSystem/condition-clinical	active	Active
http://terminology.hl7.org/CodeSystem/condition-clinical	inactive	Inactive

2.24 Observation Interpretation

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-observation-interpretation>

Binding(s):

- Observation.component.interpretation.code (required)

System	Code	Display
http://terminology.hl7.org/CodeSystem/v3-ObservationInterpretation	N	Normal
http://terminology.hl7.org/CodeSystem/v3-ObservationInterpretation	A	Abnormal

2.25 Condition Verification Status

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-condition-verification-status>

Binding(s):

- Condition.verificationStatus.code (required)

System	Code	Display
http://terminology.hl7.org/CodeSystem/v3-ObservationInterpretation	confirmed	Confirmed
http://terminology.hl7.org/CodeSystem/v3-ObservationInterpretation	unconfirmed	Unconfirmed

2.26 Pregnancy & Delivery Profiles Clinical Category

Canonical: <http://fhir.outburn.co.il/ValueSet/jcpm-resource-category>

Binding(s):

- Condition.category.code (extensible)
- Observation.category.code (extensible)
- Delivery.category.code (extensible)

System	Code	Display
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	1st-del	לידה-שלב ראשון
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	2nd-del	לידה-שלב שני
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	episiotomy	הפיזיונומיה וקרעים בתעלת הלידה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	bleeding-del	דימום בלידה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	bleeding-preg	דימום בהריון
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	infection-del	זיהומים וחום בלידה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	infection	זיהומים וחום
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	hypertension	יתר לחץ דם
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	hypertension-preg	יתר לחץ דם בהריון
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	placenta-obs	מבנה שליה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	umbilical-obs	מבנה חבל טבור

http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	anesthesia-compl	סיבוכי הרדמה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	umbilical-compl	סיבוכי חבל טבור
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	placenta-compl	סיבוכי שליה
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	maternal-compl	סיבוכים אימהיים
http://fhir.outburn.co.il/CodeSystem/jcpm-resource-category	amniotic-path	פתולוגיה של מי שפיר