XXXX - Baby Formula Case Review

Parameter	Findings	PDF Ref
Patient Name (Name of	XXXX	913
Child)		
Date of Birth	MM/DD/2004	913
Date of Death (If applicable)	MM/DD/2005	196
Delivery Details	Gestational Age at Birth: 33 weeks	925, 950
	Apgar Score at 1 min/5 min: Apgar @1 min: 7; Apgar @	
	5 min: 8	
	Birth Weight: 2195 gms	
	Mode of Delivery: Vaginal delivery	
Cause of Prematurity	Partial/marginal placenta previa	142
-	Vaginal trichomonas	
	Anemia	
Name of Mother	XXXX	926
Condition Mother	Recreational drug use: Unknown	925, 153
Experienced During	Hypertensive disease: Unknown	,
Pregnancy (Recreational	Infections: Yes (GBS Positive)	
drug use, hypertensive	Problems related to placental blood flow: Unknown	
disease, infections, problems	Not getting anti-natal steroids: No (Celestone)	
related to placental blood	Delayed cord clamping: Unknown	
flow, not getting anti-natal	HIV positive: Negative	
steroids, delayed cord	Exchange transfusions: Unknown	
clamping, HIV positive, exchange transfusions)		
exchange transjustons)	Intake Details	
Breast Milk Feeding Details	Not available	
(Mother/Donor)		
Products Given to	MM/DD/2004 – MM/DD/2004: Enfamil Premature 20 Cal.	48, 140
Patient/Infant (Feeds		42, 136-137, 134-
related to Fortifier/Formula)	MM/DD/2004 – MM/DD/2004: Alimentum	135
	MM/DD/2005, Dadialate	562-563, 560-553
	MM/DD/2005: Pedialyte	547, 520
	MM/DD/2005 – MM/DD/2005: Pregestimil	512, 465
	Wilvi DD/2003 Wilvi DD/2003. Tregestillii	446-447
	MM/DD/2005 – MM/DD/2005: Pregestimil	440
		438-439, 397
	MM/DD/2005 – MM/DD/2005: Pregestimil	394, 223
	MM/DD/2005: Pedialyte	224-225, 209-210
	MM/DD/2005: Pedialyte	
	MM/DD/2005 - MM/DD/2005: Pregestimil	
	MM/DD/2005 – MM/DD/2005: Neocate	

Parameter	Findings	PDF Ref
	MM/DD/2005 - MM/DD/2005 - D- 11 1 4	
Dates When Total Parental	MM/DD/2005 – MM/DD/2005: Pedialyte MM/DD/2004 – MM/DD/2004	126 129 121 122
Nutrition (TPN) was		126-128, 121-123
Given?	MM/DD/2004 – MM/DD/2005	591-592, 239
	MM/DD/2005 - MM/DD/2005	219-220, 209-210
Feeding Plan or Consent or Consultation Regarding	Yes	48, 42, 396
Usage and Risks and		
Benefits of		
Formula/Fortifier		
	Injury Details	
Symptoms of NEC	MM/DD/2004: Bloody stools and abdominal distention	142-147
Date of NEC Diagnosis	MM/DD/2004	84
NEC Diagnosis Details	Date of First NEC Symptoms: MM/DD/2004	142-147, 85
	NEC Mode of Diagnosis: Symptoms and X-ray	
Bell Staging Criteria of	Unavailable	
NEC (Stage I-Suspect/Stage		
II-Definitive/Stage III-		
Advanced)		110 115 511 510
Complications Associated with NEC	Sepsis	142-147, 611-612,
(Sepsis/Recurrence/Death)	Short Gut Syndrome Death (MM/DD/2005)	197-200
Hospitalization Details	Birth Hospital Name: XXXX Systems	929-931, 925
(Treatment of active NEC	Date of transfer/discharge from Birth Hospital:	>2> >61, >20
infection)	MM/DD/2004	
	Additional Hospital Name: XXXX Center	148-149, 142-147
	Date of admission to Additional Hospital: MM/DD/2004	
	Date of transfer/discharge from Additional Hospital:	
	MM/DD/2004	
	Additional Hospital Name: XXXX Hospital	197-200
	Date of admission to Additional Hospital: MM/DD/2004	
	Date of transfer/discharge from Additional Hospital:	
	MM/DD/2005	
Treatment of NEC Injury	Antibiotics: Noted (Vancomycin, Claforan and	142-147, 640-642,
(Antibiotics/Bowel	Clindamycin)	619-620
Rest/Percutaneous Drains/Surgical Treatment)		
Diams/surgical Treatment)	Bowel rest: Noted	
	Surgical treatment:	
	Surgical treatment:	
	MM/DD/2004:	
	Exploration of abdomen	
	Small bowel resection times six	

Parameter	Findings	PDF Ref
	Small bowel anastomosis times five	
	Creation of proximal jejunostomy	
	Creation of distal mucous fistula	
	Placement of cecostomy tube	
	Broviac catheter placement	
	MM/DD/2005:	
	Exploration of abdomen with lysis of multiple abdominal	
	adhesions; resection of jejunostomy site with primary	
	bowel anastomosis.	
Identified Cause(s) of NEC	Unavailable	
Reason for Death	Cardiopulmonary failure	917
	Liver failure	
	Short gut syndrome	
	Prematurity	
Other Comorbid	Jejunostomy status post takedown and bowel	199
Conditions Experienced by	reanastomosis	
Patient/Infant	Antral dysmotility with moderate gastric outlet	
	obstruction, with markedly dilated segments of small	
	bowel separated by at least 3 strictures.	
	Bilateral subependymal hemorrhages	
	Hypotension	
	Pulmonary immaturity	
	Malabsorption secondary to short bowel	
	Cholestatic liver disease /Hepatic failure	
	E-coli/Klebsiella/Enterococcus bacteremia and	
	meningitis	
	Coagulopathy bleeding in urinary tract, GI tract and	
	pulmonary hemorrhage	
Condition of the Patient Per	As on MM/DD/2005, the patient continued to have	197-200
Last Available Record	bradycardia and poor saturation, and eventually had a heart	
	rate stop and was pronounced dead at 5:20 a.m.	

Missing Medical Record: None

What Records are Needed	Hospital/Medical Provider	Date/Time Period	Why We Need The Records?	Is Record Missing Confirmatory or Probable?	Hint/Clue That Records Are Missing

Detailed Chronology

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
MM/DD/2004	XX	Delivery Report:	929-931,
	Systems		950
		Labor: Spontaneous	
	XXXX	Gestation: Single	
		Condition: Live birth	
		Mother: GBS Positive.	
		Complications: Premature labor.	
		Apgar score: Apgar @1 min: 7; Apgar @ 5 min: 8	
		Premature 33 weeks.	
		Comment: Transfer to Saint Francis	
		Method of feeding: No Breast feeding, Formula	
NO 1/DD /2004	3737	Related Records: Newborn assessment sheets	005
MM/DD/2004-	XX	Discharge summary for birth hospitalization:	925
MM/DD/2004	Systems		
	VVVV	Summary: The patient is a 33-week gestation infant delivered vaginally to	
	XXXX	a 30-year-old gravida 5 para 3 AB2 mother. Prenatal history was	
		complicated by Group B Strep. The patient presented in preterm labor. The	
		patient was given Celestone and treated with Ampicillin at the time of	
		delivery. The patient was delivered with Apgars of 7/8 and 8. The patient	
		had a physical exam consistent with a gestational age of 33 weeks but	
		otherwise was unremarkable. Initial plans were to transfer the patient to	
		XXXX at the time of delivery however there was net a bed that was	
		available in the MCU. The patient was reasonably stable on low levels of	
		Oxygen. The patient was maintained here until a bed became available.	
		Physical examination was essentially within normal limits with the	
		exception of physical exam which indicated the patient's low gestational	
		age.	
		Hospital Course: The patient was admitted and monitored overnight.	
		Blood cultures were obtained as were CBC, blood gases and chest X-ray.	
		The chest X-ray showed minimal hilan membrane disease but otherwise	
		unremarkable. Lumbar puncture was attempted but no fluid was obtained.	
		The patient was started on Ampicillin and Gentamicin. The following	
		morning a bed became available at XXXX MCU and the patient was	
NO 1/DD /2004	3/3/3/3/	transferred.	140 140
MM/DD/2004	XXXX	History and physical examination for premature infant:	148-149
	Center	D.f D. VVVV D. VVVV 1 4 1 C. 4 1	
		Referring Physician: Dr. XXXX and Dr. XXXX, both in Caruthersville.	

DATE	PROVIDE R	OCCURRENCE/TREATMENT	PDF Ref
	XXXX		
	ΑΛΛΛ	Chief Complaint: Prematurity.	
		Cinci complaint. Frematarry.	
		History : This is a 2.195-kilogram black female infant born by precipitous	
		vertex vaginal delivery to a 30-year-old, gravida 5, para 1-2-1-3, black	
		single female at estimated date of gestation 32 4/7 weeks. Mother presented	
		for late prenatal care. She is B positive, hepatis negative, serology	
		nonreactive, rubella immune, GBS positive, gonorrhea and Chlamydia	
		negative, human immunodeficiency virus negative. She smoked 1/2 pack of	
		cigarettes per day. Pregnancy was complicated by partial or marginal	
		placental previa, urinary tract infection just month ago, vaginal	
		trichomonas, anemia. EDC was MM/DD/2005. She has no previous history	
		of herpes infection. She presented last evening to the emergency room with	
		bulging bag of waters, vaginal bleeding, and contractions. Ruptured	
		membranes occurred just prior to delivery. On examination of the placenta,	
		marginal abruption was noted. Prior to delivery, she had been taking Ampicillin and Celestone and received one dose of each. At delivery,	
		Amplement and Celestone and received one dose of each. At derivery, Apgar's were 7 and 8 with oxygen stimulation required for resuscitation.	
		The baby had respiratory distress and was started on 40% oxygen by hood	
		maintaining oxygen saturations over 95%. Chest x-ray was mildly granular	
		with air bronchograms consistent with mild hyaline membrane disease. She	
		had occasional grunting and tachypnea, however, was stable through the	
		night on Oxy- Hood. Initial arterial blood gas showed a hydrogen ion	
		concentration of 739, a pCO2 of 33, Po2 of 173, and a base deficit of minus	
		3. Complete blood count showed a white count of 18,000 with 61 segs, 7	
		bands, a normal platelet count, initial hematocrit was 48%. Blood sugars	
		were stable. Intravenous fluid was initiated. Cultures were attempted but	
		unable to be obtained due to maternal status and she was started on	
		Ampicillin and Gentamicin. Transport was requested, but due to inability to	
	K K	accept the baby until later in the morning of MM/DD/2004, transport was	
		slightly delayed. At arrival of the transport team, she was stable under	
		oxygen hood with respiratory rate 40 to 60 and is mildly decreased	
		perfusion. She receives one normal saline bolus en route. She was	
		transported on a one-liter nasal cannula, 30% oxygen, and arrived in stable	
		condition. Initially capillary blood count showed a hydrogen ion concentration of 740, pCO2 of 31, PO2 of 55, abase deficit of minus 4.4.	
		Sodium was 139, potassium 6.1, on a heel stick, chloride 111, calcium	
		mildly decreased at 7.5, blood urea nitrogen 10. creatinine 1.3, 'bilirubin	
		was 4.3, glucose was 55. Liver function tests were normal.	
		, 6	
		Impression:	
		 A 33-to-34-week AGA black female infant. 	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		Mild respiratory distress syndrome.	
		 Maternal history group B strep. 	
		• Rule out sepsis.	
		Maternal history placenta previa and mild placental abruption.	
		Mild temperature instability.	
		Late prenatal care.	
		Plan: Support is needed with oxygen, I doubt we will need intubation or	
		mechanical ventilation, as well as Surfactant. Nutritional support with	
		intravenous fluids followed by early institution of feeding, therefore, TPN if	
		unable to feed. Continue antibiotics pending culture results with complete	
		sepsis workup including left LP. Consider screening head ultrasound and	
		Intensive Care Unit care and support. Condition: Critical stable. Parents	
		updated as to plan of care and appear to understand.	
MM/DD/2004	XXXX Center	X ray of abdomen:	79
		Clinical Indication: Line placement	
	XXXX		
		Impression:	
		Normal bowel gas pattern with no evidence of obstruction or	
		pneumatosis.	
		Nasogastric tube in adequate position.	
MM/DD/2004	XXXX	X-Ray of chest:	80
	Center		
		Clinical indication: respiratory distress syndrome.	
	XXXX		
		Impression: Nasogastric tube in adequate position. No acute	
		cardiopulmonary disease	
MM/DD/2004	XXXX	Inpatient progress notes:	48
	Center	Feeding details:	
	XXXX	MM/DD/2004: Enfamil Premature 20 Cal.	
MM/DD/2004	XXXX	Inpatient progress notes:	140
	Center	Feeding details:	
		MM/DD/2004: Enfamil Premature 20 Cal.	
MM/DD/2004	XXXX	Inpatient progress notes:	47, 46
	Center		
		@2045 hours: Moderate stool with moderate amount of bloody mucus.	
		Diaper findings shown same. Abdomen assessment, benign. Rectal fissure	
		noted @ 12, 6 and 10 O' clock. No active bleeding. KUB done.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
MM/DD/2004	XXXX	Inpatient progress notes:	42
	Center		
		Feeding details: Patient given Alimentum	
MM/DD/2004	XXXX	X-Ray of Abdomen:	81
	Center		
		History: Pneumatosis, bloody stools.	
	XXXX		
		Impression: Normal bowel gas pattern with no pneumatosis or free	
10.6757 (200.4		intraperitoneal air. Nasogastric tube in adequate position.	120 120
MM/DD/2004	XXXX	Inpatient progress notes: (Illegible notes)	138-139,
	Center	Feeding Dataila NDO	170-171,
	XXXX	Feeding Details: NPO	44-45, 172
	ΛΛΛΛ	Plan: Bloody stool this morning with mucous, Start 50 ml Alimentum.	1/2
		Start TPN.	
		Start 1114.	
		Starts feeding Alimentum.	
		Related Record: Vitals, Nursing notes, order sheets	
MM/DD/2004	XXXX	Inpatient progress note: (Illegible notes)	136-137
	Center		
		Feeding details: Alimentum 8 cc. q3h	
	XXXX		
		Plan: No further bloody stools. Will advance to 15 ml now.	
MM/DD/2004	XXXX	Inpatient progress note: (Illegible notes)	134-135
	Center		
		Feeding details: Alimentum 8 cc. q3h	
	XXXX		
		Plan: Increase feeds to 30 ml	
MM/DD/2004	XXXX	X-ray of abdomen:	83
	Center	Wintermy AD and lateral Class of the abdomes	
	XXXX	History : AP and lateral films of the abdomen.	
	AAAA	Comparison : Abdominal films done earlier the same date.	
		Comparison. Abdominal films done earner the same date.	
		Impression:	
		Pneumatosis suspected as well as pneumoperitoneum.	
		NG tube in the mid stomach.	
		Report was called to the floor.	
MM/DD/2004	XXXX	X-ray of KUB:	84
	Center		
		History : Pneumoperitoneum. Pneumatosis.	
			•

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
	XXXX		
		Comparison : The current study is compared to numerous films of the	
		abdomen done the same date.	
		Turning street	
		Impression:	
		 Persistent but improving pneumoperitoneum. Persistent stippled appearance is identified involving the proximal 	
		colon suggestive of pneumatosis	
		 NG tube remains positioned in the raid stomach. 	
MM/DD/2004	XXXX	Inpatient progress note: (Illegible notes)	132-133
	Center		
		Feeding details: Alimentum 30 cc. q3h	
	XXXX		
		Updated plan:	
		Feeding tolerance	
1010001		Poor PO	
MM/DD/2004	XXXX	X-ray of chest:	72
	Center	History, DDC Prospectoric and prospectoroum	
		History : RDS. Pneumatosis and pneumoperitoneum.	
	XXXX	Comparison: Chest film dated MM/DD/2004.	
		Impression:	
		Tubes and catheters in good position	
		The right upper lobe consolidation identified suggestive of atelectasis	
		versus pneumonitis	
		Residual interstitial prominence to suggest RDS	
		The pneumatosis as well as pneumoperitoneum has shown significant	
10100001		improvement if not resolution since the prior study	0.7
MM/DD2004	XXXX	X-ray of chest and abdomen:	85
	Center	Clinical information: Follow-up line placement.	
	XXXX	Chinear mior mation. Follow-up fine placement.	
		Comparison : Earlier in the day at 1446 hours.	
		r. r	
		Findings: The endotracheal tube and orogastric tube remain in place	
		unchanged in position. The UAC has been slightly retracted to the T5-6	
		level and the tip of the UVC has been slightly redacted to the T6 level. The	
		cardio thymic silhouette is stable. There is mild prominence of the central	
		broncho vascular markings without evidence of focal consolidation in the	
		chest. No pneumothorax. Bowel gas pattern appears unchanged. There are	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		findings suggestive of persistent pneumatosis involving loops of bowel in	
		the right hemi abdomen The lungs continue to have a mild granular	
MM/DD/2004	VVVV	appearance.	0.6
MM/DD/2004	XXXX Center	X-ray of abdomen:	86
	Center	History: Pneumoperitoneum.	
	XXXX	History. I heumoperitoneum.	
		Comparison: Prior chest and abdomen films dated MM/DD/2004.	
		Impression:	
		Persistent pneumatosis and pneumoperitoneum	
		NG tube remains positioned in the mid stomach	
MM/DD/2004	XXXX	X-ray of chest:	88
	Center	TY A CI A LIVE C	
	XXXX	History : Shortness of breath. History of pneumoperitoneum.	
	ΛΛΛΛ	Impression:	
		Suspected atelectatic change in the right upper lobe. No evidence of	
		pneumothorax is evident	
		Tubes and catheters are stable	
		Persistent pneumatosis and/or pneumoperitoneum identified in the	
		abdomen, this is most prominent in the proximal colon	
MM/DD/2004	XXXX	X-ray of abdomen:	89
	Center		
		History: Pneumatosis and pneumoperitoneum.	
	XXXX	C	
		Comparison: KUB dated MM/DD/2004 as well as MM/DD/2004.	
		Impression:	
	KX	Near-complete resolution of pneumoperitoneum identified noted on the	
		prior study	
		Persistent but improved pneumatosis in the proximal colon	
		Incidental note is made of persistent consolidation in the right upper	
		lobe. Tubes and catheters are stable involving the thorax and upper	
		abdomen	
MM/DD/2004	XXXX	Inpatient progress note: (Illegible notes)	129-131
	Center		
	VVVV	Fair to poor air movement, wheeze, abdomen full, firm, decreased	
	XXXX	tenderness, little responsiveness	
		Feeding details: NPO	
	1	ı ~	1

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		Plan:	
		Needs central line	
		Will be a take feed	
		Will keep tube feed Start TDN & H. Matabalia acidasis this marning. Water fraquent lytes I	
		Start TPN & IL. Metabolic acidosis this morning. Water frequent lytes +	
		gases.	
		RDS	
		Hyperbili	
		Feeding intolerance	
		Poor PO	
		Poor weight gain	
MM/DD/2004	XXXX	X-ray of chest:	67
	Center		
		History: NEC	
	XXXX		
		Comparison: Chest and abdominal radiographs dated MM/DD/2004.	
		Findings : The current films demonstrate that the umbilical catheters as well	
		as the ET tube are stable. The NG tube has been removed. There is	
		persistent and worsening consolidation identified in the right upper lobe as	
		well as the mid right lung, there are air bronchograms identified, this may	
		represent atelectasis however given the lack of resolution a right upper lobe	
		pneumonitis cannot be excluded. The underlying interstitial remains	
		prominent suggestive of RDS. No evidence of pneumothorax is identified. Heart size is stable.	
		Two views of the abdomen demonstrate that the air within the bowel wall	
		noted on prior studies has shown significant improvement. There is	
		significantly less distention of the large bowel when compared to the prior	
		study. No evidence of portal venous air is evident. No obvious	
		pneumoperitoneum is identified on the current study. The soft tissues and	
		osseous structures appear stable.	
		11	
		Impression:	
		Persistent und worsening right upper lobe consolidation as described	
		above.	
		The remainder of the tubes and catheters are stable.	
		Significant improvement in the bowel gas pattern. The pneumatosis as	
		well as pneumoperitoneum noted on the prior studies has shown	
		significant improvement if not complete resolution.	
MM/DD/2004	XXXX	Ultrasound of abdomen:	68

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
	Center	Tient come. December on infant an amatimin a contage calific	
	XXXX	History : Premature infant necrotizing enterocolitis	
	AAAA	Impression:	
		Study confirms some ascites most prominent along the medial margin of	
		the liver	
		Cannot exclude a minimum amount of hydronephrosis involving the left	
		kidney	
		Liver, spleen, pancreas are unremarkable with flow in the portal vein	
		hepatopetal	
		Gallbladder is contracted with gallbladder wall measuring 0.18 cm	
MM/DD/2004	XXXX	X-ray of chest:	69
	Center		
		History: NEC. RDS.	
	XXXX		
		Comparison : Prior chest and abdominal films done the same date.	
		Improssion	
		Impression:Tubes and catheters are stable	
		Persistent and stable ground-glass opacities	
		 No radiographic evidence of pneumatosis is identified. No obvious 	
		pneumoperitoneum is identified.	
MM/DD/2004	XXXX	X-ray of abdomen:	70
1,11,1,12,2,7,200.	Center		
		History : Pneumatosis and pneumoperitoneum.	
	XXXX		
		Comparison : The current study is compared to prior films of the abdomen	
		done the same date.	
		Impression:	
		NG tube as well as umbilical catheters appear to be in good position.	
		No evidence of free air or pneumatosis identified on the current study.	
MM/DD/2004	XXXX	Inpatient progress note: (Illegible notes)	126-128
	Center	E II I I I I I I I I I I I I I I I I I	
	VVVV	Feeding details: NPO	
	XXXX	Plan: NPO for 12 days	
MM/DD/2004	XXXX	Plan: NPO for 12 days Inpatient progress note: (Illegible notes)	121-123
141141/1010/2004	Center	inpatient progress note. (megiote notes)	121-123
	Conto	Feeding details: NPO	
	XXXX	2 coming actuals. The C	
MM/DD/2004	MM/DD	Hospitalization records: Orders, flow sheets, nurse notes, transfusion	1-4, 6-30,
. =	1		,

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
_	Center	records, radiology reports, procedure report for UVC placement,	32-41,
MM/DD/2004		medication sheets and laboratory reports	43, 48,
	Multiple		50-63,
	providers		65, 71,
			73-75,
			77-78,
			87, 92-
			124, 130,
			151-169,
			173-189,
			919
MM/DD/2004	XXXX	Discharge Summary:	142-147
	Center		
		Perinatal History:	
	XXXX	Patient is now 9 days old. Briefly she was a stable feeder grower until the	
		7 th DOL (MM/DD/2004) when she developed bloody stools, abdominal	
		distention, and pneumatosis on X-ray. She was initially treated medically	
		for NEC, but developed worsening abdominal distention, thrombocytopenia	
		and neutropenia today. She is being transferred to XXXX Hospital today	
		for a surgical evaluation secondary to worsening NEC.	
		She is a former 32 4/7 wits by dates infant born at MM/DD Mo on	
		MM/DD/2004 to a 30yr old, G 5, P 2 A 3 black female with the following	
		serologies B+, hepatitis -, serology NR, rubella immune, GBS +, GC and	
		chlamydia -, HIV -; by precipitous vaginal delivery. The pregnancy was	
		complicated by:	
		Late prenatal care beginning at 28 weeks	
		Partial/marginal placenta previa	
		UTI	
		Vaginal trichomonas	
		Anemia	
		Hospital Course to date:	
		Prematurity : 32 4/7 wk, AGA, preterm female infant now 9 days of age at	
		34 1/7 wks.	
		Fluids Electrolytes/Nutrition:	
		Patient was initially NPO and nutrition was provided by parenteral TPN	
		and lipids. Feedings were introduced on the 2 nd DOL but were stopped on	
		MM/DD/XXXX (3 rd DOL) secondary to a bloody stool. However	
		subsequent KUB's were within normal limits and clinical exams were	
		benign. There is family history of milk intolerance with sibling requiring	
		Alimentum. Feedings were started on MM/DD/XXXX with Alimentum and	
		advanced without difficulty to abdomen Lib. However, on the 7 th DOL	
	1	as a metal manage and and a manage and a man	

DATE	PROVIDE R	OCCURRENCE/TREATMENT	PDF Ref
	, and	(MM/DD/XXXX) she developed grossly bloody stools, abdominal distention, and pneumatosis on X-ray and was made NPO. She is currently receiving TPN lipids via UVC. TF are currently at 144cc/kg/day.	
		NEC: On the 7th DOL (MM/DD/2004) Patient developed bloody stools and abdominal distention. Pneumatosis intestinalis with dilated bowel loops were visible on a KUB. She initially required a vigorous fluid resuscitation, aggressive correction of metabolic acidosis, pressor support for hypotension, and intubation for respiratory failure. Late on the night of MM/DD/XXXX free air was noted on a cross table lateral KUB. She did stabilize and was subsequently treated medically for NEC with bowel decompression and antibiotic therapy. An abdominal ultrasound on MM/DD/XXXX revealed ascites along the medial margin of the liver as well as questionable hydronephrosis of the left kidney. On MM/DD/XXXX, in light of the persistent abdominal distention, a peritoneal tap was done x 2 with approximately 22cc and approximately 8cc of wine colored fluid removed. This peritoneal fluid has positive growth for gram negative rods. Today she developed worsening abdominal distention, thrombocytopenia and neutropenia and the decision was made to transfer to XXXX Hospital for a surgical evaluation. Suspect infant swallowed	
		infected amniotic fluid before birth. Cardiovascular: Hypotension: On MM/DD/XXXX after the presentation of NEC. Patient developed hypotension requiring treatment with multiple fluid boluses and	
		pressor support with Dopamine at 7.5mccykg nun She continues to require Dopamine at 7.5 mcqkg/min to maintain MAP in the 40's. Suspected PPHN: In light of increasing FiO2 requirements, an ECHO was done on MM/DD/XXX which revealed no PDA but elevated PA pressures. The recommendation from cardiology was to keep the systolic pressures in	
		the 60s if possible. Metabolic acidosis: Patient did require multiple doses of NaHCO3 and a vigorous fluid resuscitation on MM/DD/XXXX to correct a persistent metabolic acidosis (max BD= 11.9) but has not required correction since MM/DD/XXXX. This AM her BD was -2.5.	
		Presumed sepsis : Patient initially received a 7 day course of Amp/Gent secondary to + maternal GBS culture-with limited treatment prior to delivery. Her initial CRP was 0.1, and blood and CSF cultures were negative.	
		Sepsis with E.coli bacteremia: With the treatment of NEC on	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		MM/DD/XXXX, she was started on Vancomycin, Claforan and	
		Clindamycin. Blood and TA cultures were sent. Serial CRPs were 10 (12-	
		14) and 14 (12-15). Stool culture was negative for C. diff. On	
		MM/DD/XXXX after consultation with XXXX, Patient antibiotics were	
		changed to Vancomycin/Gentamicin/Zosyn. Vancomycin P/T on	
		MM/DD/XXXX were 25/8.2. Blood culture from MM/DD/XXXX is	
		positive for E. Coli. TA from MM/DD/XXXX is positive for CONS.	
		Peritoneal tap was done on MM/DD/XXXX and is positive for gram	
		negative rods. CRP increased from 16 to 19 in last 2 days, consistent with	
		NEC, perforation, peritonitis, and bacteremia.	
		Thrombocytopenia : Patient platelets count on admission was 145 k and	
		remained stable (140- 190k) until MM/DD/2004 (8 DOL) when the pit	
		count dropped to 48k. She did receive a total of 3 pit transfusions	
		(20ml/kg/transfusion) on MM/DD/XXXX- MM/DD/XXXX. The F/U	
		platelets count on MM/DD/XXXX was 138k. However, her pit count this	
		morning was 34k but she was transferred before we could give another pit	
		transfusion. Neutropenia: Patient initial CBC's were within normal limits,	
		however on MM/DD/XXXX the WBC dropped to 4.6 k with 5 segs and 39	
		bands. Her last WBC today revealed a WBC of 2.6 k, 8 segs, 3 bands, 80	
		lymph's. There was recurrent thrombocytopenia after pit transfusions. Last	
		platelets ct = 38 K MM/DD/XXXX.	
		Diagnosis:	
		Preterm female infant now 34 1/7 weeks adjusted [dates may be	
		wrong and - 35 weeks]	
		RDS: resolved from initial	
		 Necrotizing enterocolitis [NEC, suspect in utero infected amniotic fluid] 	
		Respiratory failure secondary to NEC and abdominal distension.	
		 Presumed sepsis at birth: resolved from admission with negative cultures. 	
		 Sepsis with E. Coli bacteremia, peritonitis after bowel perforation secondary to NEC. 	
		Thrombocytopenia/Coagulopathy secondary sepsis and NEC	
		Neutopenia – watch for bone marrow depletion and neutrophils.	
		Suspected PPHN – acquired secondary sepsis and improved. Hyperbiling his agriculture and here.	
		Hyperbilirubinemia – stable Hyperbilirubinemia – stable Hyperbilirubinemia – stable	
		 Hypotension – improved with volume and inotropes. Questionable hydronephrosis of left kidney – needs further studies. 	
MM/DD/2004	XXXX	Operative report for exploration of abdomen, small bowel resection	640-642
1.11(1,15),2004	Hospital	and anastomosis, creation of proximal jejunostomy and distal mucous	310 042
	Tiospitai	fistula and placement of cecostomy tube and broviac catheter:	
		instant and practificate of eccusioning tube and browlet cameter.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		Indications for surgery : This patient is a 32-week estimated gestational	
		age child who was born at an outside hospital. She is now nine days of age.	
		Four to five days prior to her admission at XXXX, she developed	
		abdominal distension, feeding intolerance, and bloody stools. X-rays	
		showed extensive pneumatosis intestinalis. She also had additional X-rays	
		which were concerning for free intraperitoneal air. The patient was subsequently transferred to this institution where she was on a ventilator.	
		Her abdomen was distended with erythema and edema. X-rays were	
		obtained which were concerning for bowel obstruction or perforation of the	
		intestine. The risks and benefits of surgical repair of these defects were	
		discussed with the child's parents prior to the operation. I discussed the	
		risks of bleeding, infection, reoperation and death. I also discussed the	
		creation of a colostomy.	
		Pre and post-operative diagnosis : Complicated necrotizing enterocolitis	
		with bowel perforation.	
		Procedure:	
		Exploration of abdomen	
		Small bowel resection times six	
		Small bowel anastomosis times five	
		Creation of proximal jejunostomy	
		Creation of distal mucous fistula	
	•	Placement of cecostomy tube	
		Broviac catheter placement	
		Anesthesia: General anesthesia	
		Titlesinesia. General allesinesia	
	KK	Procedure:	
		The patient was brought to the operating room and placed on the operating	
		room table where appropriate access and monitoring was established.	
		Induction of general anesthesia took place without difficulty. The neck,	
		chest, and abdomen were all prepped with Betadine and draped sterilely.	
		The patient was placed in a mild Trendelenburg position. A transverse	
		incision was made over the right neck region. This was done 1 cm inferior	
		and lateral to the angle of the right mandible. Bovie electrocautery was then	
		used to divide the subcutaneous tissue. A fine Crile clamp was then used to separate the muscle tissue into the deep subcutaneous tissue. At that point,	
		the right facial vein was identified. Proximal and distal control was	
		obtained with 4-0 Vicryl ties. A counter incision was made on the right	
		anterior chest and a 4.2 French Broviac catheter tunneled through the	
	1	The state of the s	<u> </u>

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R	subcutaneous tunnel exiting at the neck incision. The catheter was then cut	
		to the appropriate length. The cephalad portion of the vein was ligated with	
		a 4-0 Vicryl tie. A transverse venotomy was made with a #11 blade. The	
		catheter was then inserted under direct vision into the vessel and threaded	
		through the vessel without difficulty. The catheter flushed and aspirated	
		blood easily. The catheter tip appeared to be in the superior vena cava. The	
		* * * * * * * * * * * * * * * * * * * *	
		catheter was then secured at the distal portion of the vessel. The catheter	
		was also secured to the chest level with a nylon suture. The neck incision	
		was closed by reapproximating the platysma with an interrupted 5-0 Vicryl	
		suture. The skin was reapproximated with interrupted 1-0 Vicryl suture.	
		The Broviac was secured at the chest wall with nylon suture. A sterile	
		bandage was applied to the site. The port for the Broviac was passed to the	
		anesthesia staff. The attention was then turned to the abdomen. A transverse	
		incision was made with a #15 blade. Bovie electrocautery was used to	
		deepen this incision. The initial incision extended from the midline to the	
		right. Bovie electrocautery was used to divide the subcutaneous tissue. The	
		peritoneum was then identified and entered sharply. The incision was then	
		opened widely up to the level of the umbilical vein remnant. The patient	
		had a previous umbilical vein catheter, which was being utilized. We	
		subsequently did extend our incision to the left of the midline, taking care	
		to protect the umbilical vein. This was done by applying vessel loops	
		around the catheter to secure it and prevent injury. Upon entrance into the	
		abdomen and opening the incision, there was a large amount of feculent	
		material which was evacuated. This was present in all quadrants of the	
		abdomen, including the subdiaphragmatic spaces. This was copiously	
		irrigated and evacuated. We then identified the bowel. There were multiple	
		areas of bowel perforation and active pneumatosis intestinalis. The bowel	
		was slowly eviscerated in order to fully evaluate the intestinal tract. The	
		ligament of Treitz was identified, and I felt this was uninvolved in the	
		necrotizing enterocolitis process. The bowel was somewhat edematous and	
		friable, however, there was no evidence of pneumatosis and no evidence of	
		gangrene. The bowel was adequate for approximately 30 cm. At that point,	
		we began to identify multiple areas of full-thickness gangrene and	
		perforation. We ultimately resected six portions of the small bowel. These	
		sizes ranged in length from 2 cm to several centimeters of 12-15 cm. These	
		were all excised using Bovie electrocautery to control the mesenteric	
		vessels. They were all passed off the field and sent as separate specimens.	
		The more proximal bowel loops were the jejunum and the distal small	
		bowel loops, including the specimen 5 and 6 included portions of the	
		terminal ileum. The extreme terminal ileum and the cecum appeared to be	
		uninvolved in the necrosis. After the small bowel loops had been excised.	
		Bovie electrocautery was used to obtain meticulous hemostasia I then took	

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	R	a 4.2 French Broviac catheter and placed it through the abdominal wall in the left lateral abdomen. I then used the Broviac catheter and a rectal probe to thread the Broviac catheter through the lumen of the remaining bowel loops. The bowel loops were then lined appropriately and anastomoses were performed between the small bowel segments. These were performed, using interrupted 4-0 Vicryl sutures on a TF needle. Five separate small bowel anastomoses took place. The Broviac catheter was then brought through the cecum and exited the right lateral abdominal wall. Multiple TF sutures were also used to suture the cecum up to the level of the right lateral abdominal wall to secure this in place. The appendix appeared to be normal. The colon appeared to be generally uninvolved in the process, however, there was swelling and inflammation. There was no evidence of full-thickness injury. At that point, we brought out the proximal jejunostomy through the mid portion of the incision. The defunctionalized small bowel loops were brought out of the raucous fistula in a separate incision to the left of our original incision. The mucous fistula was secured using multiple 3-0 Vicryl sutures which were placed in full-thickness bites of the suture and fascia. This was done in a circumferential manner. The fascial edges of the abdominal incision were then brought together using interrupted 3-0 Vicryl suture. The jejunostomy matured in the mid portion of the incision using interrupted 4-0 Vicryl suture. A sterile bandage was applied to the site. The patient tolerated the procedure well. The patient remained in critical and unstable condition and was transported back to the Neonatal	
MM/DD/2004	XXXX Hospital XXXX	Intensive Care Unit. I was present for the entire procedure. X-ray of chest and abdomen: History: Patient born at 32 week gestation. She reportedly had free air on an outside facility abdominal film around MM/DD/2004. Impression: Abnormal bowel gas pattern with a few scattered dilated gas filled loops of bowel, primarily with the- right abdomen. Endotracheal tube with tip at the carina, directed toward the right main stem bronchus. Nasogastric tube with side holes overlying the esophagus.	716
MM/DD/2004 - MM/DD/2004	XXXX Hospital XXXX	Summary of interim progress notes: MM/DD/2004: She is status post-surgical laparotomy exploration for surgical NEC. Last night they found perforated NEC and they resected a large amount of small bowel and had a stoma. Surgical NEC with perforation and surgical resection and short gut.	591-592, 588-589, 586, 584- 585, 582, 580-581, 578, 577, 576, 575,

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		Currently NPO on Replogle drainage and on IV fluids. Infectious disease: She is currently on Vancomycin, Gentamicin and	574, 573, 572, 571,
		Clindamycin. Her previous cultures from blood and peritoneal fluid is	570
		growing E-coli. She has a Broviac in her neck, the tip of the SVC right	
		atrium. She also has UAC and UVC lines left in place by surgery as	
		removing them was risky because of her bleeding tendency.	
		MM/DD/2004:	
		Post surgical NEC and resection. We will keep NPO and we will start TPN	
		and intralipid today. She had hypoglycemia last night.	
		MM/DD/2004: Her abdomen is full, slightly tender and not tense. Currently	
		NPO, no Replogle drainage, and on TPN and intralipid, 44 cal/kg/day.	
		MM/DD/2004: Currently NPO. No Replogle drainage, and on TPN and	
		Intralipid. Electrolytes are acceptable and will continue on TPN and Intralipids support.	
		MM/DD/2004: She has puffiness and generalized edema with third spacing.	
		MM/DD/2004: Currently NPO and will continue to monitor her	
		gastrointestinal status closely. She is likely to develop short gut in the	
		future and possible liver disease and cholestasis.	
		MM/DD/2004: Her abdomen is distended, but not tense. She is sedated.	
		Currently NPO. Has stoma. On TPN and intralipid.	
		MM/DD/2004: She remains NPO on TPN and intralipids.	
		MM/DD/2004: Will keep NPO on TPN and intralipids. On Vancomycin,	
		Gentamycin and Clindamycin.	
		MM/DD/2004: Will keep NPO on TPN and intralipids. On Vancomycin,	
		Gentamycin and Clindamycin.	
		MM/DD/2004: Currently NPO on lipids. We will continue 7th, lipids, and	
		monitor electrolytes closely. On Vancomycin, Gentamycin and Clindamycin.	
		MM/DD/2004: Currently NPO on TPN and Intralipid, adequate calorie	
		intake, voiding and passed a small amount in the stoma. We will continue	

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		to support the nutrition by TPN and monitor her electrolytes as appropriate. On Vancomycin, Gentamycin and Clindamycin.	
		MM/DD/2004: She remains on TPN and intralipids NPO. On Vancomycin, Gentamycin and Clindamycin.	
		MM/DD/2004: We will continue to keep NPO on Replogle drainage, and on TPN and intralipid. Off Vancomycin and Clindamycin. We will keep Gentamycin for another week to complete three weeks of treatment for possibility of meningitis with E.coli.	
		MM/DD/2004: Currently NPO on TPN and intralipid. On Gentamycin for E.coli, possible meningitis as well as on Fluconazole for tracheal yeast and urine yeast.	
		*Reviewer's comments: The interim progress notes were summarized with significant events.	
MM/DD/2005	XXXX Hospital	X-ray of small intestine:	699
		History : A seven-week-old female with a history of necrotizing	
	XXXX	enterocolitis, status post partial resection of small bowel and reanastomosis.	
		Please evaluate for stricture or extravasation at anastomosis.	
		Institution Chart at most stancia accustly ileased impetion with frint	
		Impression : Short segment stenosis near the ileocecal junction, with faint suggestion of extravasation of intraluminal contrast.	
MM/DD/2005	XXXX	X-ray of abdomen:	698
WIN DD/ 2003	Hospital	A Tay of abdomen.	070
		History : A 7-week-old female, status post small bowel segmentectomy	
	XXXX	with diverting ileostomy. The patient is status post lower GI study	
	X	yesterday.	
		Impression: Residual contrast in rectosigmoid colon and in reanastontosed	
		segment of. small bowel in this patient with a history of recent small bowel	
		segmentectomy for necrotizing enterocolitis, status post, lower GI exam	
		yesterday.	
MM/DD/2005	XXXX Hospital	X-ray of abdomen:	697
		History : A 7-week-old female with history of necrotizing enterocolitis	
	XXXX	status post bowel resection. Check for any remaining contrast.	
		Findings:	
		Comparison is made to the prior study of the abdomen dated	

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		MM/DD/2004.	
		• Intraluminal contrast is seen in the large and small bowel. There are no	
		dilated loops of large or small bowel. There is no intramural gas, portal	
		venous gas or intraperitoneal free gas.	
MM/DD/2005	XXXX	Summary of interim progress notes:	568, 566-
_	Hospital		567, 564-
MM/DD/2005		MM/DD/2005: Enteral feedings were resumed yesterday and she had frank	565, 562-
	XXXXX	blood in her colostomy bag. Feedings were, therefore, discontinued. She	563, 560,
		continues to be NPO and on TPN. She is at risk of splanchnic circulatory	558, 556-
		compromise if fed.	557, 555,
		MM/DD/2005: She was NPO and on TPN.	553, 551,
		WINIDDI2003. SHE was IN O and On 11 IV.	550, 549,
		MM/DD/2005: There are some conflicting reports about her blood per	548, 547,
		rectum versus blood from the ostomy tube. I discussed her with Dr. XXXX	546, 544,
		who is under the impression that there was blood per rectum. She continues	542, 541,
		to be NPO and TPN.	540, 539,
		NAMED COLUMN COL	538, 537,
		MM/DD/2005: Mucous fistula in situ. She was NPO but has been	536, 535,
		commenced on Pedialyte feeds by the surgical team.	534, 533,
		MM/DD/2005: Continues to ooze blood from the mucous fistula. She	532, 531,
		continues to be on TPN, has been commenced on gavage trophic feeds of	530, 529
		Pregestimil 20 cal/ounce.	, , , , , ,
		MM/DD/2005: Last day of Gentamicin today. On TPN. Enteral feeds were	
		commenced yesterday, but has increasing ostomy output and hence, not	
		advanced.	
		MM/DD/2005: She had high colostomy output with small-volume feeds	
		and hence enteral feeds were discontinued. She is now on TPN.	
		MM/DD/2005: She is currently TPN dependent which reflects the failure of	
	KX	her alimentary system to tolerate enteral nutrition.	
		nor annientary system to tolerate enteral natition.	
		MM/DD/2005: She continues to be NG fed, 2 ml of Pregestimil 20 but has	
		large PGAs. Hence, no advancing of NG feeds. She continues to be on	
		TPN.	
		MM/DD/2005. Charles de la character de la Contracte de la Cont	
		MM/DD/2005: She clearly is showing signs of malabsorption even with this small feed. She continues to be on TPN.	
		uns sman reed. She continues to be on TPN.	
		MM/DD/2005: On TPN.	
		MM/DD/2005: Had high ostomy output and hence a decision was made to	
		replace ostomy output without normal, saline in his potassium chloride and	
		equal volumes.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		MM/DD/2005: On TPN and lipids.	
		MM/DD/2005, MM/DD/2005 and	
		MM/DD/2005: She continues to feed 2 ml of Pregestimil q3h and continues to be on TPN.	
		*Reviewer's comments: The interim progress notes were summarized with significant events.	
MM/DD/2005	XXXX Hospital	X-ray of abdomen:	696
	XXXX	History : Eight-week-old female with known necrotizing enterocolitis, now here for evaluation of internal contrast.	
		Findings:	
		Comparison was made to single view of the abdomen from MM/DD/2005, Again visualized is a paucity of bowel gas in the upper abdomen, with the exception of air within the stomach. Contrast is again identified in distal	
		bowel loops, particularly within the distal colon. Lateral view demonstrates an air/fluid level in the stomach with the question of a second air/fluid level identified in a loop of small bowel.	
		Central venous catheter is again identified with its tip projecting over the superior vena cava. Ho new infiltrate is identified in the lungs.	
		Impression:	
		 Continued presence of contrast, as described above. Air/fluid level in the stomach and possibly within a loop of small 	
10177 (0001		bowel.	
MM/DD/2005	XXXX Hospital	X-ray of abdomen:	695
	Tiospitai	History : NEC status post bowel resection follow-up.	
	XXXX		
		Conclusion: Residual colonic contrast with catheter now in ileostomy	
MM/DD/2005	XXXX Hospital	X-ray of abdomen:	694
	XXXX	History : A 2-month-old female with history of necrotizing enterocolitis status post bowel resection with recent contrast enema.	
		Findings:	
		Comparison was made to a prior exam dated MM/DD/2005.	

In comparison to the prior exam, the contrast in the large bowel has progressed and now resides in the distal rectosigmoid colon. There is no evidence of extravasated contrast on this single portable view. There is a persistent gas bubble in the stomach. There is no evidence of extraluminal area. The chest appears clear. MM/DD/2005 XXXX Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast progression in the distal bowel.	
progressed and now resides in the distal rectosigmoid colon. There is no evidence of extravasated contrast on this single portable view. There is a persistent gas bubble in the stomach. There is no evidence of extraluminal area. The chest appears clear. MM/DD/2005 XXXX X-ray of abdomen: History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
evidence of extravasated contrast on this single portable view. There is a persistent gas bubble in the stomach. There is no evidence of extraluminal area. The chest appears clear. MM/DD/2005 XXXX Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
There is a persistent gas bubble in the stomach. There is no evidence of extraluminal area. The chest appears clear. MM/DD/2005 XXXX Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
extraluminal area. The chest appears clear. MM/DD/2005 XXXX Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
MM/DD/2005 XXXX Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
Hospital History: The patient is a 3-month-old female with necrotizing enterocolitis status post bowel resection. We are asked to check for oral contrast	
XXXX status post bowel resection. We are asked to check for oral contrast	
progression in the distal bowel.	
Findings: Compared to prior examination dated MM/DD/2005, there has	
been no significant change in the progression oral contrast within the distal	
bowel loops. Again noted is oral contrast within the distal colon and rectal	
sigmoid. Gas is still seen within the stomach. No pneumoperitoneum or	
pneumatosis is noted.	
MM/DD/2005 XXXX X-ray of abdomen: 692	
Hospital	
History : The patient is a 2-month-old female with history of necrotizing	
XXXX enterocolitis status post bowel resection.	
Findings:	
Compared to prior examination dated MM/DD/2005, there has been less	
contrast seen within the rectum, possibly secondary to recent evacuation.	
Still some contrast is seen in the distal colon. The stomach is still distended	
with gas. No gas is seen in other loops of bowel. No evidence of	
pneumatosis or pneumoperitoneum. The lungs bases are clear with no	
pneumothorax, pleural effusion or confluent infiltrate. The visualized	
portion of the heart is normal.	
02/15/2005 XXXX Lower gastrointestinal radiography with barium contrast:: 691	
Hospital	
History : Status post ileostomy for necrotizing enterocolitis.	
Conclusion:	
Normal colon with fetal-type cecum without stricture.	
• Short segment of ileum filling to the ileostomy in the left lower	
quadrant, grossly unremarkable.	
MM/DD/2005 XXXX Summary of interim progress notes: 528,	527,
Hospital 525,	
MM/DD/2005 XXXX/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, 523,	
XXXX MM/DD/2005, MM/DD/2005, MM/DD/2005; She 521,	
continues on TPN and on trophic feeds of 2 ml of Pregestimil every 3 517,	

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	R		-11
		hours.	515, 514,
		MM/DD/2005: She now has a gastrostomy as a result of surgery for NEC.	511, 512,
		In cooperation with surgery, there has been a change of plan in that she is	511, 510,
		no longer getting the ostomy output fed back into the distal loop and that	508, 507,
		there is a question as not there is ongoing obstruction.	506, 505,
			504, 503,
		MM/DD/2005: A major problem on this baby is that she is putting but	502, 500,
		varying amounts er fluid from her ostomy and this requires close following	499, 498,
		of her electrolytes which we are doing every other day. We plan to give her	497, 492
		Pregestimil as tolerated and follow her feedings very carefully.	
		MM/DD/2005: We plan to increase her feeds and also plan to continue to get AFP's until she clears her barium.	
		MM/DD/2005: Her primary problem is that she still has a colostomy and apparently has some obstruction in the colon. She remains on TPN and today has increased colostomy output.	
		MM/DD/2005: She still has a jejunal fistula. She is n.p.o. and is getting all TPN and lipids.	
		MM/DD/2005: She is on TPN and is getting very small feeds today which are 2 mL and mere or less trophic feeds.	
		MM/DD/2005: She is getting very small trophic feedings. She is on TPN and has not gained a great deal of weight yet.	
		MM/DD/2005: This infant is on all TPN for gastrointestinal dysfunction. She is also getting trophic feeds. Yesterday there were some reported high blood pressures of 120 to 125. She had an echocardiogram while we were on rounds today, which is suggestive of a clot in the main pulmonary artery.	
		MM/DD/2005: She has what appears to be short gut syndrome. Whether or	
		not this will improve significantly when she is reanastomosed is unclear.	
		She has a murmur heard on rounds and an echo, we performed yesterday	
		which showed an ASD and pulmonic valve stenosis. We plan to follow her along with her TPN and will await surgeries plans to reanastomose her.	
		along with her 1414 and will await surgeries plans to realiastomose her.	
		MM/DD/2005: She is on trophic feeds only and she remains on TPN.	
		MM/DD/2005: She is on TPN for her ongoing gastrointestinal dysfunction. She is still getting trophic feedings.	
		MM/DD/2005: She is getting 95 kcal/kg and is gaining weight although slowly. We plan to wait for surgery's decision on reanastomosing her bowel.	

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	N	MM/DD/2005, MM/DD/2005: She is on TPN for gastrointestinal dysfunction. We plan to consult surgery as to the date for their planned reanastomosis.	
		MM/DD/2005: This is an infant who is waiting for her fistula repair and reconnection which is planned sometime next week.	
		MM/DD/2005: She is on mostly total parenteral nutrition and we plan to increase this today to make up for losses coming out of her ileostomy.	
		MM/DD/2005: She is on Pepcid and is on all hyperalimentation with occasional small feedings. She needs to grow in order for her upcoming surgery which is a reattachment of her bowel. She continues to have a murmur clue to mild congenital heart defects.	
		MM/DD/2005: She continues with replacement of fluids from her ileostomy and also she is taking 2 ml of Pregestimil every three hours of trophic or maintenance feedings. We plan to keep things as they are for the next 24 hours.	
		MM/DD/2005: She is on TPN for her ongoing gastrointestinal dysfunction. She continues to get small trophic feedings.	
		MM/DD/2005: She continues to gain weight, is getting 98 kilocalories of TPN and lipids with small amounts of small feeds. She will be going to surgery in the next 10-14 days. She has anemia of prematurity as well.	
		*Reviewer's comments: The interim progress notes were summarized with significant events.	
MM/DD/2005	XXXX Hospital XXXX	 X-ray of small intestine: History: A 3-month-old female with a history of necrotizing enterocolitis, with complicated surgical history including 6 small bowel segment resections with multiple anastomoses. The patient has a proximal jejunostomy and an ileostomy mucous fistula. There is clinical concern from prior studies and patient's history of a stricture or a leak in the region of the terminal ileum or cecum. 	690
		Findings: Comparison is made to the patient's prior examinations of MM/DD/2005 and MM/DD/2005. Initial scout image demonstrates a gas filled stomach with a paucity of gas in the remaining loops of bowel. A central venous catheter is incompletely evaluated with the distal tip in the region of the superior vena cava or right	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		atrium. Retained barium is seen in the region of the rectum and sigmoid colon consistent with the patient's prior examination. Instillation of radiopaque water-soluble contrast demonstrates a loop of small bowel, likely ileum, coursing transversely over to the right mid abdomen. Contrast flows easily from this loop of bowel into the region of the cecum, with visualization of a normal appearing appendix. The cecum is in a somewhat abnormal position, with an abnormally positioned ascending colon which is likely secondary to patient's prior surgery. This is, however, unchanged in position from MM/DD/2005. The contrast flows easily through the colon, into the transverse colon, a short segment of descending colon, and into the proximal sigmoid colon. The course of the visualized colon is unchanged in position from the patient's prior examinations. The colon is not easily distensible with contrast but is unchanged in caliber or position. No strictures or ulcerations are seen. No extravasation is seen into the peritoneal cavity.	
		Impression: No strictures or leaks identified as detailed above.	
MM/DD/2005	XXXX Hospital XXXX	Operative report for exploration of abdomen with lysis of multiple abdominal adhesions and resection of jejunostomy site with primary bowel anastomosis: Indications for surgery: This patient is now a three-month-old child; with a previous history of severe necrotizing enterocolitis. This resulted in surgery, at which point multiple small bowel loops were excised. She subsequently had multiple bowel anastomoses performed over a Broviac stent. A proximal jejunostomy was then created along with the mucous fistula. The Broviac catheter was allowed to stay in place for six weeks. She subsequently underwent a contrast study through this site. It showed the bowel to be intact. There was a possible stricture in the mid-portion of this site. The Broviac: catheter was removed. The patient was then treated for an additional six weeks with total parenteral nutrition and is subsequently brought: to the operating room for reanastomosis of her gastrointestinal tract. Pre and post-operative diagnosis: Necrotizing enterocolitis with jejunostomy and proximal mucous fistula; previous multiple bowel resections. Operative procedure: Exploration of abdomen with lysis of multiple abdominal adhesions; resection of jejunostomy site with primary bowel anastomosis.	619-620

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		Anesthesia: General anesthesia.	
		Estimated blood loss: 20 ml.	
		Procedure : The patient was brought to the operating room where	
		appropriate access and monitoring was then established. Induction of	
		general endotracheal anesthesia took place without difficulty. The abdomen	
		was prepped with multiple layers of Betadine and draped sterilely. This was	
		done after the patient had received preoperative intravenous antibiotics and	
		a Foley catheter was placed. We also had preoperatively irrigated the child's	
		bowel. The previous incision was then utilized. Bovie electrocautery was	
		used to divide the subcutaneous tissue. This was taken down through	
		fibrous scar tissue and the abdominal cavity entered. Multiple adhesions	
		were encountered, specifically in the upper abdomen along the inferior edge	
		of the liver. At this point, we encountered the previous bowel anastomoses.	
		There were some significant strictures on the underside of the incision and	
		fine Metzenbaum scissors and Bovie electrocautery were used to divide the	
		adhesions to free the bowel loops. After the bowel loops had been freed, we	
		turned our attention to the stoma site. The jejunostomy was separated after	
		incising the mucocutaneous junction with Bovie electrocautery. This	
		dissection was taken down through the muscular layers of the abdominal	
		wall and the bowel was then freed of all connections. The roost terminal	
		aspect of this jejunostomy was excised. The distance of this excision was	
		approximately 1 cm. The resulting bowel edge was viable with good	
		vascularity. I then turned our attention to the defunctionalized loop of the	
		intestine. Multiple adhesions were once again divided with Metzenbaum	
		scissors up to the skin level. Circumferential dissection was then	
		undertaken to separate this from the abdominal wall. After this was	
		accomplished, an 8 French red rubber catheter was passed through the	
	K	defunctionalized bowel. It was irrigated. The bowel appeared to distend	
		adequately throughout the length of this intestine. We then aligned the	
		previously defunctionalized bowel and the more proximal jejunostomy. An	
		end-to-end single-layer anastomosis was then completed utilizing 4-0	
		Vicryl sutures. The mesenteric defect was then reapproximated with	
		interrupted 4-0 Vicryl suture. The abdominal cavity was thoroughly	
		irrigated with warm saline. The bowel was placed back within the	
		abdominal cavity. We then identified fascial edges of good integrity on all	
		sides. The fascia was then reapproximated with interrupted 2-0 Vicryl	
		sutures. The dermal edges were then reapproximated with interrupted 4-0	
		Vicryl suture. The patient tolerated the procedure well. I was present for all	
		portions of the procedure. The patient did remain intubated and was	
		transported back to the neonatal intensive care unit in guarded condition.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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MM/DD/2005	XXXX	X-ray of abdomen:	681
	XXXX	History : This is a 3-month-old female with a history of necrotizing	
		enterocolitis status post bowel resection.	
		An abdominal obstructive series is obtained and compared with the	
		previous study dated MM/DD/2005.	
		previous study duted MM/DD/2003.	
		Opinion:	
		No obstruction, pneumatosis or pneumoperitoneum.	
		Hepatosplenomegaly.	
MM/DD/2005	XXXX	Upper gastrointestinal and small intestine radiography with Barium,	679-680
	Hospital	air contrast:	

	XXXX	History : The patient is a 3-month-old female with a history of necrotizing	
		enterocolitis. The patient is status post resection of multiple loops of small bowel, with reanastomosis. The patient's most recent surgery was	
		MM/DD/2005, where an exploration of the abdomen, lysis of abdominal	
		adhesions, and resection of jejunostomy site was performed with a primary	
		bowel anastomosis. The patient was recently administered oral feeds with	
		resulting emesis.	
		Impression:	
		Tubular appearance of the stomach antrum, with delayed gastric	
		emptying. These findings are most consistent with antral dyskinesia.	
		No small bowel obstruction.	
		No evidence of malrotation.Short small bowel.	
MM/DD/2005	XXXX	Summary of interim progress notes:	495, 493,
	Hospital	Summary of interim progress notes.	489-490,
MM/DD/2005	Hospital	MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	487, 483-
	XXXX	MM/DD/2005 and MM/DD/2005, MM/DD/2005, MM/DD/2005,	484, 484,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005	482, 480,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005 and MM/DD/2005: She is receiving most of her nutrition in	479, 478,
		the form of 20% dextrose containing TPN and intralipid solutions. She	477, 475,
		continues to receive small-volume trophic feedings just to provide	473, 472,
		continued stimulation in this important developmental arena which she is	471, 468-
		tolerating well.	469, 467, 465, 463-
		MM/DD/2005: The Pediatric Surgical team will plan to reinitiate TPN	464, 443,
		today and will monitor her sugars and urine output closely.	461-462,
			459-460,

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	457-458,
		MM/DD/2005, MM/DD/2005, MM/DD/2005 and MM/DD/2005: On	454-455,
		TPN and intralipids	452-453,
		03/28/2005: Yesterday she received total fluids of about 100 mL/kg/day,	450-451,
		largely in the form of 27-1/2% dextrose containing TPN and intralipid	448-449,
		solution as well as small volumes of Pedialyte by mouth.	446-447,
			444-445,
		MM/DD/2005 and MM/DD/2005: NPO. On TPN and intralipids	442, 440
		MM/DD/2005: She started on small volume Pedialyte feedings yesterday, but those were stopped when she had significant emesis. Essentially all of her nutrition, is in the form of TPN and Intralipid at volumes of about 100 mL/kg/day.	
		*Reviewer's comments: The interim progress notes were summarized with	
		significant events.	
MM/DD/2005	XXXX	X-ray of abdomen:	676
	Hospital		
		History : BPD; feeding tube placement.	
	XXXX		
		Conclusion: Feeding tube ending in 2nd duodenum	
MM/DD/2005	XXXX	X-ray of abdomen:	674
	Hospital		
	XXXX	History : A 4-month-old girl status post nasojejunal tube placement.	
		Findings : A single view of the abdomen dated MM/DD/2005 at 1105 hours	
		is compared to a prior examination at 0537 hours on the same date. There	
		has been interval replacement of an enteric feeding tube. The new feeding	
		tube is coiled within the stomach. There is gas throughout nondilated loops	
		of bowel.	
MM/DD/2005	XXXX	X-ray of abdomen:	675
	Hospital		
		History : A 4-month-old girl with abdominal distention.	
	XXXX	•	
	-	Findings : A single view of the abdomen is compared to a prior examination	
		dated MM/DD/2005. The enteric tube is again seen coiled within the	
		stomach, but its tip is now within the gastric outlet. There is unchanged	
		appearance of gas and stools throughout nondilated loops of bowel. There is	
		unchanged appearance of hepatosplenomegaly.	
MM/DD/2005	XXXX	X-ray of abdomen:	672
	Hospital		
	1105p1ttl1	History:	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		Findings:	
		A single view of the abdomen, dated MM/DD/2005, is compared to a prior	
		examination from earlier on the same date. There has been no interval	
		change. Again seen is an enteric feeding tube which is coiled within the	
		stomach. There is non-dilated loops of bowel.	
		A single view of the abdomen, dated MM/DD/2005 at 0503 hours, is	
		compared to the above examination, has been no interval change. The	
		enteric feeding tube remains coiled in the stomach.	
MM/DD/2005	XXXX	X-ray of abdomen:	673
1,11,1,22,2000	Hospital	Truj or ususinein	073
	Trospitar	History : A four-month-old girl status post feeding tube placement.	
	XXXX	Tablet y. 11 four monar ord gar status post rectang tues plate include.	
		Findings : A single view of the abdomen dated 04/14/2005 at 0441 hours is	
		compared to a prior examination dated 04/13/2005. There has been no	
		interval change. Again seen is an enteric feeding tube, which is coiled	
		within the stomach and has its tip likely in the gastric outlet. There is gas	
		and stool throughout nondilated loops of bowel.	
MM/DD/2005	XXXX	X-ray of abdomen:	670
	Hospital		
	1	History : A 4-month-old girl status post feeding tube placement.	
	XXXX		
		Findings:	
		A single view of the chest dated MM/DD/2005 at 0604 hours is compared	
		to the prior examination from MM/DD/2005.	
		There has been no interval change. Again seen is an enteric feeding tube	
		which is curled within the stomach. There is gas throughout nondilated	
		loops of bowel. Again seen is hepatosplenomegaly.	
		There is unchanged wild cardiomegaly. There are unchanged coarse	
	KX	interstitial infiltrates consistent with bronchopulmonary dysplasia.	
MM/DD/2005	XXXX	X-ray of abdomen:	668
	Hospital		
		History: Check nasogastric tube placement.	
	XXXX		
		Findings : Comparison is made to the previous study dated MM/DD/2005.	
		Again seen is a nasogastric tube whose tip projects over the region of the	
		pylorus. There are mildly distended bowel loops seen in a nonobstructive	
		pattern. No significant change from the previous exam.	
MM/DD/2005	XXXX	X-ray of abdomen:	667
	Hospital		
		History : Evaluate nasogastric tube placement.	
	XXXX		

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		Findings : Comparison is made to the previous study dated MM/DD/2005.	
		Again seen is a nasogastric tube coiled in the stomach with its tip in the	
		region of the pylorus. There are scattered mildly distended loops of bowel	
		in the lower abdomen. There is a nonobstructive bowel gas pattern.	
MM/DD/2005	XXXX	Summary of interim progress notes:	438-439,
_	Hospital		436, 434-
MM/DD/2005		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	435, 432,
	XXXX	MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	431, 430,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	428, 427,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005	426, 425,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	424, 423,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	422, 421,
		MM/DD/2005, MM/DD/2005:	420, 419,
		On TPN and Pregestimil	418, 417,
			416, 415,
		*Reviewer's comments: Only case relevant details were captured	413, 411-
			412, 409,
			407, 405-
			406, 404,
			403, 402,
			401, 400
MM/DD/2005	XXXX	X-ray of abdomen:	665
	Hospital		
		History: Hematemesis and abdominal distention.	
	XXXX		
		Comparison is made to the previous study dated MM/DD/2005.	
		Impression : Feeding tube that is coiled in the stomach, more proximal than	
		on the previous exam.	
MM/DD/2005	XXXX	Ultrasound of abdomen:	663
	Hospital		
	1100pmin	History : Five-month-old female with previous history of necrotizing	
	XXXX	enterocolitis. We were asked to evaluate for portal hypertension.	
		Conclusion:	
		Normal Doppler exam of the liver with no evidence of portal	
		hypertension.	
		Echogenic kidneys bilaterally, unchanged.	
		Sludge-filled gallbladder without intra- or extra-hepatic biliary duct	
		dilatation.	
		Hepatosplenomegaly.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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	Hospital	contrast:	
	XXXX	History : Necrotizing enterocolitis with seven anastomoses for necrotic bowel, now vomiting.	
MM/DD/2005	XXXX Hospital	 Conclusion: Hepatosplenomegaly (compare to sonogram of the same day). Marked antral dysmotility with moderate gastric outlet obstruction. Abnormal small bowel with markedly dilated segments separated by at least three strictures. Procedure Report For Broviac Catheter Removal: Indications For Surgery: This is A 5-month-old child who has Short Gut Syndrome And Requires TPN For Nutrition. She Has Had Repeated Blood 	611-612
	AAAA	Cultures That Have Been Positive For Enterococcus. For This Reason We Have Planned Broviac Removal. Pre And Post-Operative Diagnosis: Bacteremia, Enterococcus; Short Gut Syndrome; Bronchopulmonary Dysplasia. Operative Procedure: Broviac Catheter Removal.	
		Procedure: After the patient was brought to the operating room and given a general anesthetic and after the institution of appropriate monitoring, the anterior chest was prepped and draped in the usual manner. The Dacron cuff of the Broviac was approximately 3.5 cm superior to the catheter exit site. For this reason, after the anterior chest, was prepped and draped, I made a skin incision directly over the cuff, dissected through the subcutaneous tissue and identified the cuff. A dissected circumferentially around the cuff, freeing it up from loose connective tissue. I then was able to place traction on the catheter in the caudal direction and removed the catheter from the superior vena cava. I dissected from the cuff inferiorly and could free the rest of the catheter up. The catheter was divided and removed. The tip of the catheter was sent for culture. A total of 1.5 mL of 0.253 Marcaine was used to infiltrate the skin and subcutaneous tissue of the wound. The cut down site was closed in two layers using 4-0 Vicryl for subcutaneous and then a running subcuticular closure. Betadine ointment was placed over the catheter exit site followed by a gauze dressing. The patient tolerated the procedure, well. The sponge and needle count was correct and the blood loss was negligible. I personally was present for the	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
		entire procedure.	
MM/DD/2005	XXXX Hospital	Procedure report for insertion of left subclavian broviac catheter:	609-610
	XXXX	Indications for surgery: This patient is a now 5-1/2-month-old child who was born with severe necrotizing enterocolitis. The patient underwent multiple intraabdominal operations including multiple bowel resection and essentially has short bowel syndrome. The patient requires long-term intravenous access for total parenteral nutrition. A most recent Broviac catheter had become chronically infected and was previously removed. The risks and benefits of the surgical procedure were discussed with the child's guardian prior to the operation. Pre and post-operative diagnosis: Short bowel syndrome, Operative procedure: Insertion of left subclavian broviac catheter (4.2	
		french). Anesthesia: General anesthesia. Estimated blood loss: Less than 5 ml.	
		Procedure : The patient was brought to the operating room and placed on the operating room table where appropriate access and monitoring was then established. Induction of general anesthesia took place without difficulty. A shoulder roll was placed between the shoulder blades. The patient was placed in Trendelenburg position. The neck and chest area were prepped with multiple layers of Betadine and draped sterilely. The left subclavian vein was accessed percutaneously. A guidewire was inserted. Fluoroscopy showed the guidewire tip to be in the right atrium. A counter incision was made on the left anterior chest with a #15 blade. A subcutaneous tract was then developed with a rectal probe, bringing the catheter through the subcutaneous tunnel, exiting at the infraclavicular site. The dilator and peelaway sheath were then passed over the wire. The catheter was cut to the appropriate length and then passed through the peel-away sheath. The peelaway sheath was then, removed. The catheter flushed and aspirated blood easily. The catheter was secured at chest level with a nylon suture. The infraclavicular site was cloyed with Vicryl. Sterile bandages were applied to both sites. On fluoroscopy, the catheter tip appeared to be at the junction of	
MM/DD/2005	XXXX	the right atrium and superior vena cava. I was present for all portions of the procedure. The patient tolerated the procedure well. The patient was then awakened and transported to the recovery area. Summary of interim progress notes:	399, 398,

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
_	Hospital		397, 394,
MM/DD/2005		MM/DD/2005, MM/DD/2005 and MM/DD/2005: On TPN and	395, 394,
	XXXX	Pregestimil	393, 392,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	390, 387,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	388, 387,
		MM/DD/2005, XX/1XX/2005, MM/DD/2005, MM/DD/2005,	386, 385,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	384, 383,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	382, 381,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	380, 379,
		MM/DD/2005, MM/DD/2005, MM/DD/2005; On TPN	377, 376,
		and Neocate 20	374-375,
		*Di	373, 372,
		*Reviewer's comments: Only case relevant details were captured	371, 370,
			369, 368,
			367, 366
MM/DD/2005	XXXX	Summary of interim progress notes:	363, 362,
_	Hospital		361, 360,
MM/DD/2005	•	MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	358, 356,
	XXXX	MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	354-355,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	352-353,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	350-351,
		MM/DD/2005, MM/DD/	348-349,
		MM/DD/2005, MM/DD/	346-347,
		MM/DD/2005, MM/DD/2005, MM/DD/2005; On TPN and Neocate (She	344-345,
		was TPN dependent)	605, 340-
			341, 337-
		*Reviewer's comments: Only case relevant details were captured	339, 335-
			336, 333-
			334, 331-
			332, 329-
			330, 327-
			328, 325-
			326, 323-
			324, 321-
			324, 321-
			320, 317-
			318, 315-
			316, 313-
			314, 311-
			312, 309-
			310, 307-
			308, 342-

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
	R		
			343
MM/DD/2005	XXXX Hospital	Inpatient consultation report:	205-208
MM/DD/2005		Patient status post NEC with multiple surgical resections resulting in short-gut syndrome. She has been TPN dependent, and has increased liver enzymes, macrocytic anemia, and poor antral motility. Patient was born at 32-4/7 weeks to a 30-year-old G5, P1-2-1-3 mother whose serologies were B+, rubella immune, RPR nonreactive, HIV negative, GBS negative, hepatitis B positive, GC and Chlamydia negative. The pregnancy was complicated by tobacco use, partial placenta previa, history of UTI one month prior to delivery, vaginal Trichomonas, and anemia She had a precipitous vaginal vertex delivery and was treated at XXXX NICU. There, her course was complicated by necrotizing enterocolitis and sepsis. She started on antibiotics, received fresh-frozen plasma, platelets, and blood transfusion. She was transferred to XXXX for further management. On MM/DD/2004, patient was taken to the OR for bowel resection. She had multiple segments of small bowel resected and small bowel reanastomosis times five. Estimated remaining bowel length is approximately 30 cm. Her pylorus to proximal jejunum was intact. The remaining viable small bowel were connected along a Broviac line in the abdomen. She had a proximal jejunostomy and distal mucous fistula. On MM/DD/2005, she underwent exploration of her abdomen with lysis of abdominal adhesions and resection of jejunostomy site with primary bowel reanastomosis. Complications of the surgery included partial wound dehiscence that required a few weeks of packing. She also had frequent	
		large amounts of emesis while on continuous feeds per NG. An upper GI and small bowel follow through done on MM/DD/2005 showed hepatosplenomegaly, marked antral dysmotility with moderate gastric outlet obstruction, and abnormal small bowel with markedly dilated segments separated by at least three strictures. Patient has been tolerating 39 ml/hr of Neocate 200 kcal/ml since MM/DD/XXXX. She remains on TPN and Intralipid to make up a balance of 80 kcal/kg/day. The Neonatal Intensive Care Unit team attempted to advance her feeds, however, her stools have become more loose and they were unable to advance her feeds further. Her electrolytes have remained stable and Speech Therapy continues to work on patient's oral motor feeding skills. Other problems include increasing liver enzymes. On MM/DD/XXXX, her alkaline phosphatase was 531, AST 1336, ALT 1128, GGT 76. Throughout her life, her alkaline phosphatase has been between 300 and 600. Her ALT was initially 27, but has gradually been climbing, and is currently at a peak. Her last ALT was 391 on MM/DD/2005. Her AST had also been climbing gradually. Her last AST was 523 on	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		MM/DD/2005- She has also had macrocytic anemia with a hemoglobin of 8A, hematocrit of 26.4, and MCV of 90 on MM/DD/XXXX Her ferritin was 2092 and is being evaluated by the Hematology/Oncology Service. This laboratory data was thought to be due to global hepatic dysfunction and short gut syndrome.	
		Assessment:	
		Problems as listed above.	
		 Short bowel syndrome. She receives approximately 55 kcal/kg/day via enteral feeds and 29 kcal/kg/day via PN. She has tolerable loose stools on the current regimen. She may have bacterial overgrowth in the dilated segments of small bowel. Hypertransaminasemia and intrahepatic cholestasis. Multiple factors 	
		contribute: • Previous bacteremia	
		 Abnormal bile acid kinetics due to decreased enterohepatic circulation of bile acids since ileum resected- 	
		Possible fatty liver with increasing weight,	
		 Iron overload. She has been on parenteral iron. 	
		Hepatic vein thrombosis (not likely)	
		 Macrocytic anemia, likely related to cholestasis, abnormal serum lipids, and abnormal RBC membrane lipids. Findings on smear on consistent with this mechanism. If she has vitamin E deficiency (which can occur in cholestasis and decreased parenteral delivery of vit E), then iron can lead to hemolysis. 	
		Plan:	
		To improve diarrhea:	
		Discontinue Reglan	
		Discontinue Ursodiol	
		To evaluate liver:	
		Hepatic ultrasound with Doppler flow studies Classic Content of the Conte	
		• Check iron and TIBC.	
		Stop IV iron.Check CPK.	
		To advance enteral feeds:	
		Increase enteral feeds by 1 ml/hr per day	
		Follow daily BMP for acidosis	
		Tolerate variable weight as long as she does not appear ill.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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		Goal of 75 kcal/kg/day.	
		Consider adding fluid to formula to account for increased water and/or	
		salt losses.	
		Try off of PN. Use routine IV fluids with MVI-Ped added	
		To evaluate anemia:	
		Check retic count,	
		Check vitamin E level	
MM/DD/2005	XXXX	Summary of interim progress notes:	305-306,
_	Hospital		303-304,
MM/DD/2005		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	301-302,
	XXXX	MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	299-300,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	297-298,
		XX/13/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	295-296,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	293-294,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	290, 289,
		MM/DD/2005, MM/DD/2005, MM/DD/2005, MM/DD/2005,	288, 287,
		MM/DD/2005, MM/DD/2005, MM/DD/2005: On TPN and Neocate (TPN	286, 285,
		dependent). As on MM/DD/2005, She has some signs of liver failure with	283-284,
		extremely high liver enzymes and direct hyperbilirubinemia.	281-282,
			279-280,
		*Reviewer's comments: Only case relevant details were captured	277-278,
			275-276,
			271-272,
			273-274,
			269-270,
			267-268,
			263-264,
			265-266,
			261-262,
			259-260,
			257-258,
			253-254,
			255-256,
			251-252,
			247-248
MM/DD/2005	XXXX	Hepatic ultrasound and limited doppler:	658
	Hospital		
		Indication : Short gut syndrome. Worsening liver functions.	
	XXXX		
		Impression : Hepatosplenomegaly and fatty liver. Sludge versus gallbladder	
		stone, No biliary duct dilatation.	

DATE	PROVIDE	OCCURRENCE/TREATMENT	PDF Ref
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MM/DD/2005	XXXX	Procedure report for placement of right subclavian vein broviac	593-594
	Hospital	catheter and removal of left subclavian vein broviac catheter:	
	XXXX	Indications for surgery : The patient is an eight-month-old infant with a	
		history of short gut syndrome after bowel resection for necrotizing	
		enterocolitis. The patient has required parental nutrition and currently has a	
		clotted left subclavian vein Broviac catheter. The patient requires	
		replacement of the Broviac catheter for continued parenteral nutrition and	
		removal of the clotted catheter.	
		Pre and post-operative diagnosis: Short gut syndrome.	
		Operative procedure: Placement of right subclavian vein broviac catheter;	
		Removal of left subclavian vein broviac catheter.	
		Anesthesia: General anesthesia.	
		Complianting Name	
		Complications: None.	
		Procedure : After informed consent was obtained, the patient was brought	
		to the operating room and placed in a supine position. After general	
		endotracheal anesthesia was induced, a roll was placed underneath the	
		shoulder blades to extend the neck and all pressure points were padded	
		appropriately. Anterior chest and neck were prepped and draped in the	
		usual sterile fashion. The patient was then placed in a steep Trendelenburg	
		position and the right subclavian vein accessed via Seldinger technique.	
		The guidewire was identified at the junction of the SVC and right atrium	
		via fluoroscopy. A counter incision was then created in the right anterior	
		chest wall measuring 5 mm, and a 4.2 French single-lumen Broviac catheter	
	KV	was tunneled into the subcutaneous plane, through the sub clavicular	
		incision site. The catheter was then cut to a length that would approximate	
		the SVC and right atrium and was advanced into the superior vena cava via	
		a break-away sheath. Blood was easily aspirated from the catheter, and the	
		catheter was flushed with heparinized saline. The catheter as then anchored	
		to the skin using interrupted 4-0 Ethilon suture and covered with a sterile	
		Tegaderm dressing. The sub clavicular incision site was then closed with a	
		4-0 Monocryl subcuticular suture and covered with Steri-Strips. The	
		anchoring suture for the left subclavian vein was then incised and the	
		catheter removed in toto with downward traction. Hemostasis was obtained	
		by applying pressure to the subcutaneous tract. The wound, was then	
		covered with Betadine ointment and a sterile dressing.	
		The patient tolerated the procedure well and there were no complications.	

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		The patient was extubated and brought to the recovery room in good	
		condition, I was present during the entire procedure and participated in all	
		portions of the procedure.	
MM/DD/2005	XXXX	Inpatient consultation report:	203-204
	Hospital		
	WWW	Patient has been stable.	
	XXXX	Enterally, feeds are now being advanced by 1 mL/hr daily. She is currently	
		being fed starch-amino acid formula (Neocate 22) at 36 ml/hr with occasional vomiting (once or twice a day). 863 ml/d. 64 cal/kg/d.	
		Parenterally, she receives D7.3 water with KCl and sodium acetate at 20	
		ml/hr. 480 ml/d. 15 cal/kg/d.	
		She is 0.5 M2. Total fluid intake = $1300 \text{ ml/d} = 2600 \text{ ml/M2/d}$.	
		She has multiple small bowel movements; she is stooling almost	
		continuously. There is no blood or mucus in the stool. She is generally	
		content and not irritable.	
		Problems:	
		Premature.	
		NNEC status post bowel resection.	
		Active:	
		Longstanding dependence on PN.	
		Cholestasis, life-long, recent worsening.	
		Portal hypertension.	
		Plan:	
		Resume Ursodiol	
		Sweat test	
		Alpha-1-antitrypsin phenotype	
		Urine bile acids (Setchell lab Cincinnati)	
		Vitamin A level	
		Hepatitis A, B arid C serology	
		CMV urine shell vial culture	
		Reticulocyte	
		SeFE/TIBC	
		Continue effort to establish independent enteral-only nutrition	
MM/DD/2005	XXXX	Inpatient consultation report:	201-202
	Hospital		
		Patient has been stable over the past week with no acute events. She is	
	XXXX	being fed Neocate 20 kilocalories/ounce at 42 mL/hr via NG also receives	
		D7.5 plus 30 mEq KCl plus 40 mEq sodium acetate/ liter at 8 ml/hr	

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		intravenously. This give her 70 kcal/kg/day and 2232 mL/sq in/day.	
		D 11	
		Problems:	
		Prematurity. Signaturity.	
		Short-gut syndrome following NEC and small bowel resection.	
		Active:	
		Cholestasis, chronic, multifactorial etiology (prolonged limited enteral	
		intake, infections, massive bowel resection, prolonged parenteral	
		nutrition).	
		Portal hypertension with splenomegaly, due to prematurity	
		Plan:	
		Hepatitis C virus RIBA. We spoke to the blood bank and were	
		informed that her serum was very weakly positive for hepatitis C virus	
		antibody	
		Continue to advance enteral feeds	
MM/DD/2005	XXXX	Abdominal sonogram:	653
	Hospital		
	******	History : An 8-month-old female with hepatic dysfunction and sepsis.	
	XXXX	Comparison to examination on MM/DD/2005	
		Comparison to examination on MM/DD/2005.	
		Impression:	
		Marked hepatosplenomegaly.	
		Increased echogenicity of the kidneys consistent with medicorenal	
		disease	
		Septated fluid collection between the liver and stomach which appears	
		to be extrahepatic. This was not seen on prior examination and may	
		represent abscess	
MM/DD/2005	XXXX	X-ray of abdomen and chest:	652
	Hospital		
		History : Increased work of breathing and abdominal distention.	
	XXXX		
		Comparison is made with study dated MM/DD/2005.	
		Findings:	
		 The lung volumes are small with interval increase in bibasilar 	
		infiltrates. There is no pleural effusion or pneumothorax. The cardiac	
		size is markedly increased from prior study	
		There is minimal bowel gas with a large air-filled structure in the center	
		- There is infinitial bower gas with a large an-infou structure in the center	<u> </u>

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		of the abdomen which may represent an air-filled stomach. Together	
		with bulging flanks, this suggests the presence of ascites	
		There has been interval removal of a nasogastric tube. A right	
		subclavian central venous catheter remains in place with its distal tip	
		positioned in the superior vena cava	
MM/DD/2005	XXXX	Summary of interim progress notes:	249, 246,
_	Hospital		245, 244,
MM/DD/2005		MM/DD/2005: Complicated NEC with short gut syndrome and dysmotility	242-243,
	XXXX	disorder, with malabsorption and cholestasis. Recently had worsening liver	241, 240,
		enzyme levels with high ferritin level. Iron was supplemented in the TPN.	239, 238,
		We are working with GI consultation recommendation of attempting	236-237,
		advancing feeds more quickly while monitoring her feeding tolerance as	234-235,
		appropriate in order to get rid of the TPN and switch it to plain IV fluids with vitamins and minerals. Will work with the clinical pharmacist on this	232-233,
		with vitalinis and inflierars. Will work with the chilical pharmacist on this	230-231,
		MM/DD/2005: On TPN and enteral feeds at 32 mL/hr with 7 bowel	228-229,
		movements of loose watery.	226-227,
			224-225,
		MM/DD/2005: Currently tolerating feeds at 33 mL per hour of Neocate and	223, 221-
		getting about 22 mL par hour of IV fluids, D-7.5 glucose and electrolytes.	222, 219-
		Her liver and abdominal ultrasounds revealed fatty liver with	220, 217-
		hepatosplenomegaly and sludge in the gallbladder with patent common bile	218, 215-
		duct.	216, 213-
		MM/DD/2005: Jaundiced. Hepatosplenomegaly. Slight abdominal	
		distention. She was off her TPN. She remains on Pepcid.	214, 211-
		1	212, 209-
		MM/DD/2005, MM/DD/2005, MM/DD/2005 and MM/DD/2005: On TPN and Neocate.	210
		MM/DD/2005: Ex-premature 32-week infant with complicated surgical	
		NEC, short bowel with malabsorption, stenotic bowel with poor bowel	
		mobility and malabsorption. Also, with cholestasis and liver disease with hepatosplenomegaly and hypersplenism with recurrent infections. On	
•		Neocate. She is off TPN.	
		MM/DD/2005: She is 8 months old. She has short gut syndrome with	
		hepatitis secondary to direct hyperbilirubinemia, cholestasis, fatty liver and	
		repeated infections. She continues to have frequent stools which are loose.	
		She passed 8 stools yesterday. On Neocate.	
		MM/DD/2005, MM/DD/2005 and MM/DD/2005: She is tolerating	
		Neocate formula feedings. No significant complications.	
		MM/DD/2005: Today she is less active and is not as playful. She also	
		spiked a temperature in the afternoon because of which we did a partial	
		sepsis not including spinal tap.	

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		MM/DD/2005: She remains on ursodiol, fat-soluble vitamins, and Pepcid. Yesterday we started triple antibiotic coverage with Vancomycin, Gentamicin, and Clindamycin because of fever. Since yesterday she has been less active and more irritable.	
		MM/DD/2005: Over the last 23 hours, she has been less active than her usual baseline. We have been concerned about the possibility of dehydration and we have been giving IV boluses, more IV fluids and Pedialyte solutions.	
		MM/DD/2005: We will give another bolus of IV fluids of normal saline and stop the Neocate feeding and switch to all Pedialyte feeding supplemented by IV fluids to a total fluids of 150 mg/kg/day. We will repeat another electrolytes this evening and evaluate fluid and electrolyte management as appropriate.	
		MM/DD/2005: Infant with complicated surgical NEC with short bowel syndrome and malabsorption, cholestasis, elevated liver enzymes, who has been clinically septic on antibiotics that were switched last night, because of further clinical deterioration in terms of fever, lethargy, and hypotension on Vancomycin and Gentamicin, Meropenem, as well as Fluconazole and Clindamycin. We will discontinue the clindamycin today and continue these antibiotics.	
		MM/DD/2005: We will start TPN today at 20 g/kg/day of protein and 2 g/kg/day of intralipids.	
		MM/DD/2005: She is becoming more awake but has been irritable overnight. On TPN and enteral feeds of Pedialyte.	
		MM/DD/2005: On TPN and enteral feeds of Pedialyte.	
		MM/DD/2005: Will start Neocate 5 ml every hour and monitor feeding tolerance. Will stop Pedialyte. Will continue TPN.	
		MM/DD/2005: She has tachypnea. Abdomen is distended, but not tense with huge hepatosplenomegaly. Spleen tip is in the left ileac fossa. Liver is about 10-12 cm below the costal margin. She is deeply jaundiced. Could not elicit ascites. Difficult to exam with huge hepatosplenomegaly. On TPN and enteral feeds of Neocate.	
		MM/DD/2005: Jaundiced. Awake, but slightly irritable and in discomfort. She has tachypnea. Abdomen is distended, full with massive hepatosplenomegaly. Currently on TPN and did not tolerate Neocate feeds with vomiting twice with small amount of blood in the vomitus. Feedings were stopped and we elected to give her Pedialyte, but failed with another vomiting, so she is kept NPO on IV fluids 80 ml/kg/day. Will continue on	

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		Vancomycin, Gentamicin and Meropenem. Stopped her Fluconazole after 7 days. Called mom and talked to her about patient. She understands that patient is getting worse and has developed organ failure at this point and it is highly likely that these are not reversible. She also understood that patient may die at any time.	
		*Reviewer's comments: The interim progress notes were summarized with	
		significant events.	
MM/DD/2005	XXXX Hospital	Death summary: Date of death: MM/DD/2005	197-200
	XXXX	Patient is an ex-premature infant, 32 weeks, with complicated surgical NEC resulting in short bowel malabsorption, bowel dysmotility, and cholestasis with liver disease then failure, hepatosplenomegaly, and hypersplenism. The overall course was also complicated by multiple infections. Over the past 24 hours, she has been having progressive manifestations of liver failure with poor homeostasis and bloody urine with blood in the gastric aspirates and worsening respiratory status requiring intubation. Parents arrived early this morning, and Dr. XXXX discussed with them her multiple organ failure, including liver, intestine, cardiovascular, pulmonary, and renal failure with severe metabolic and respiratory acidosis, hypoxia, hypotension, and anuria. The parents accepted and allowed natural death status with no chest compressions or Epinephrine, and no increase in her support and lab tests. She continued to have bradycardia and poor saturation, and eventually had a heart rate stop and was pronounced dead at 5:20 a.m. Her exam one hour prior to her death: She was on mechanical ventilation, tidal volume of 9, a volume inhalation rate of 40, 100% oxygen. She had moderate air entry bilaterally with moderate chest expansion and crackles diffusely bilaterally. She had normal heart sounds, weak brachial and femoral pulses. Her abdomen was severely distended with hepatosplenomegaly. Her sats were in the 60%, heart rate was 100 per minute. Options for funeral home and autopsy were discussed with the parents. They are planning to arrange for a funeral home and they refused to have an autopsy. The medical examiner was contacted by Dr. XXXX. The investigator is XXXX and medical examiner number is 051923. NICU course by system: Respiratory: Patient was maintained on mechanical ventilation through surgery and extubated to vapotherm on MM/DD/XXXX (DOL #30). She	

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		was stable on room air until MM/DD/2005 when she had acute respiratory	
		decompensation. She was initially placed on Vapotherm, then required	
		intubation during cardiorespiratory resuscitation. She was mechanically	
		ventilated until she expired on MM/DD/2005.	
		Cardiovascular: Patient required dopamine for hypotension until	
		MM/DD/XXXX (DOL #19) - An echocardiogram MM/DD/2005 to	
		evaluate a murmur revealed mild pulmonary valve stenosis and a small to	
		moderate secundum ASD.	
		Infectious disease : Patient has received numerous courses of antimicrobials	
		including Vancomycin, Gentamicin, Clindamycin, Fluconazole, ampicillin,	
		Timentin, and meropenem for E. coli bacteremia/meningitis, fungal	
		UTI/tracheitis, enterococcus/coag negative staph line infection, coag	
		negative staph/Klebsiella bacteremia, and other presumed line	
		infections/sepsis.	
		Gastrointestinal: Patient had resection of multiple segments of small	
		bowel (x6) and small bowel anastomosis times five (30 cm remain). Her	
		pylorus to proximal jejunum was intact with the remaining viable pieces of	
		bowel strung along a Broviac line in the abdomen. She had a proximal	
		jejunostomy and distal mucous fistula. On MM/DD/2005, she underwent	
		exploration of her abdomen with lysis of abdominal adhesions, and	
		resection of jejunostomy site with primary bowel reanastomosis. After	
		surgery, she developed a mild partial wound dehiscence that eventually	
		closed after several weeks of packing. Because of large amounts of emesis	
		even on continuous feedings per NG, an upper GI and small bowel follow	
		through was done on MM/DD/2005 which showed: 1) hepatosplenomegaly;	
		2) marked antral dysmotility with moderate gastric outlet obstruction and,	
		3) abnormal small bowel with markedly dilated segments separated by at	
		least 3 strictures.	
		Hepatic failure: Patient has had gradually increasing conjugated bilirubin	
	K K	levels and liver function tests since early in her course. A liver ultrasound	
		with Dopplers showed hepatosplenomegaly, fatty liver, sludge vs.	
		gallbladder stone; there was no biliary duct dilatation. The laboratory work	
		up was remarkable for a "weakly positive Hepatitis C antibody; follow up	
		RIBA test for Hepatitis C was negative. Also HIV DNR was negative. She	
		had an elevated ferritin level, but normal iron, TIBC and transferrin level.	
		Nutrition : Patient was NFO on TPN and IL after her initial surgery until	
		DOL #24 when enteral feeds were introduced. She was never able to	
		tolerate any significant enteral intake secondary to dumping from her	
		ostomy. Even after her bowel re-anastomosis, she continued to have	
		problems with malabsorption and tolerated only very slow advancement of	
		her continuous gavage feedings. She remained on supplemental TPN and IL	
		her entire life until MM/DD/2005 (DOL 236) when was at 75% enteral	

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		nutrition from continuous NG feeds of Neocate. She was then placed on	
		supplemental fluids of D7.5 with NaAcetate and KCl added.	
		Heme : Patient had initially been coagulopathic with significant platelet	
		consumption while critically ill with necrotizing enterocolitis and	
		subsequent surgery. She required frequent transfusions of FFP, platelets and	
		PRBCs post-operatively. She was hematologically stable until she became	
		bacteremia again in XXXX, when she again became thrombocytopenic. She	
		remained thrombocytopenic for the remainder of her course, but never	
		required platelet transfusions until the last week of her life. On	
		MM/DD/XXXX, she developed bloody urine. Her coags remained	
		abnormal from that time on and she received multiple transfusions of	
		platelets, FFP and PRBCs in that last week. On MM/DD/XXXX, she	
		developed GI bleeding with blood streaked emesis and stool. Later that	
		night when she was intubated, she had pulmonary hemorrhage.	
		Neuro: A HUS on MM/DD/2005 showed small bilateral subependymal	
		hemorrhages with cystic change on the left and a small choroid plexus cyst	
		on the left, decreased gyration consistent with her history of prematurity.	
		Patient had been receiving physical and occupational therapy for	
		development of motor skills.	
		Immunizations : Patient received her 2 month immunizations, including Pediarix, Hib and Prevnar, on MM/DD/2005. She received her 4 month	
		immunizations on MM/DD/2005.	
		ABR hearing screen: Passed ABR at 35 dB bilaterally on MM/DD/2005.	
		Newborn screen: Sent on MM/DD/XXXX, with results of a low 74 with a	
		normal TSH, normal CAH and PKU, but invalid hemoglobin and	
		galactosemia screen secondary to transfusion. Repeat thyroid studies	
		demonstrated a free T4 of 1.6 and a TSH of 2.7 which were both normal.	
		Social: Mother is XXXX	
	KV	Diagnosis:	
		Prematurity, 32-4/7 week EGA	
		NEC status post segmental resection	
		Jejunostomy status post takedown and bowel reanastomosis	
		Antral dysmotility with moderate gastric outlet obstruction, with	
		markedly dilated segments of small bowel separated by at least 3	
		strictures	
		Bilateral subependymal hemorrhages	
		Hypotension, resolved	
		Pulmonary immaturity, resolved	
		Malabsorption secondary to short bowel	
		Cholestatic liver disease /Hepatic failure	
	1	Cholestatic fiver disease / Hepatic failure	

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		E-coli/Klebsiella/Enterococcus bacteremia and meningitis.	
		Coagulopathy bleeding in urinary tract, GI tract and pulmonary	
		hemorrhage	
MM/DD/2005	XXXX	Death certificate:	917
		Date of death: MM/DD/2005	
		Cause of death:	
		Cardiopulmonary failure	
		Liver failure	
		Short gut syndrome	
		Prematurity	
		Manner: Natural	