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### STATE OF HAWAII DEPARTMENT OF HUMAN SERVICES P. O. Box 339 Honolulu, Hawaii 96809-0339

March 27, 2008

# MEMORANDUM

TO: Honorable Maile S.L. Shimabukuro. Chair House committee on Human Services & Housing

> Honorable Josh Green, MD., Chair House Committee on Health

- FROM: Lillian B. Koller, Director
- SUBJECT: H.C.R. 196/H.R. 165 REQUESTING THE STATE AUDITOR TO COMMISSION AN INDEPENDENT MEDICAL REVIEW OF THE MEDICAL APPROPRIATENESS OF MEDICAID CLIENTS WHO ARE NEONATAL OR PEDIATRIC INTENSIVE CARE PATIENTS BETWEEN THE YEARS OF 2007 AND 2000.

Hearing: Thursday, March 27, 2008, 10:45 a.m. Conference Room 329, State Capitol

<u>PURPOSE:</u> The purpose of these resolutions is to request the state auditor to commission an independent medical review of the appropriateness of level of care by all Medicaid patients who are neonatal or pediatric intensive care patients between the years of 2007 and 2000.

DEPARTMENT'S POSITION: The Department of Human Services (DHS) supports the intent of this resolution. Currently, the Med-QUEST Divsion conducts periodic medical reviews of Medicaid QUEST and Fee-For-Service members which include assessing level of care appropriateness.

Thank you for this opportunity to testify on this resolution.

#### 27 March 2008

To: Honorable Chair Dr. Green of Health Committee and esteemed members of the Health Committee

Honorable Chair Maile Shimabukuro of Human Services Committee And esteemed members of the Human Services Committee

From: Debra H. Wright APRN, MBA [please see my resume; emailed to each member]

Topic: Significant mis-billing/ overbilling for Medicaid patients by Kapiolani Hospital for <u>selected</u>, very vulnerable young citizens: those in Kapiolani intensive care unit [ICU]

## Introduction:

Honorable Chair of the Health Committee, Dr. Green and esteemed members of the Health Committee; and Honorable Chair of the Human Services Committee, I am grateful for the opportunity to testify before you in person today. I trust that I will be able to present facts, evidence and shine a light about significant overbilling for <u>selected</u> Medicaid recipients, who are young patients in the Kapiolani Pediatric Intensive Care Unit [ICU].

#### Overview of this issue related to mis-billing for Medicaid funds :

Today I will share with you facts about an actual pediatric case of more than \$700,000 overbilling by Kapiolani hospital found in 1998 when I was working as a manager at HMSA in the Care Management unit. I will also present multiple recent facts and circumstances that indicate significant <u>current</u> over billing, for selected young Medicaid patients <u>kept inappropriately</u> in the Pediatric ICU at Kapiolani Medical Center.

Finally I will urge the members of this committee to support a <u>Medical Chart</u> audit [NOT CLAIMS audit] of selected Medicaid pediatric ICU patients using scientifically valid and reliable <u>level of care</u> criteria called Milliman [Please note: In 1998 "InterQual" - <u>Severity of illness</u> and <u>Intensity of Service</u> criteria was used to scientifically **verify level of care** for the actual individual HMSA pediatric ICU case found to be <u>over</u> billed by \$700,000+. I will leave a sample of the Pediatric InterQual level of care criteria that determines appropriate level of care.

#### Key background information and facts:

1) It is important for all Health committee members and Human Services members to understand the concept of "level of care" as it relates to hospital costs and billing to understand why I am testifying today.

There are several "levels of care" for patients in a hospital. The highest and most expensive level of care is: the Intensive Care Unit [ICU], next comes telemetry, followed by acute care, and finally skilled nursing level of care. Often, if a patient still needs some care <u>after leaving the hospital</u> they will be referred to "home care" [This is medical care performed by health professionals in the patients home].

A rough estimate of the cost of the highest level of <u>hospital</u> care, ICU, <u>per day</u> is between \$5,000 to \$10,000 [depending on individual patient care procedures needed], whereas the lowest level of <u>hospital</u> care: Skilled Nursing costs approximately \$750 to \$1,000/ day. [again depending on the individual patient care procedures needed]. Home Care costs, per day, are <u>lower</u> than Skilled Nursing level of care.

As an educated clinical guess, I would say, approximately 90% of the time, if a patient is first admitted to the ICU, as they get better [i.e. their condition becomes more medically stable], they will be transferred through the levels of care, in the order I have outlined: ICU to Telemetry to acute care to skilled nursing care, and finally discharged from the hospital to a "home care" program. Occasionally, as the patient gets better, one level of care could be skipped. It would be extremely unusual however for an adult or pediatric patient to go directly from the intensive care unit to "home care".

2) I worked as a manager at HMSA in the Care Management unit in 1998. I had a staff of three Registered Nurses [RNs] and five social workers. One key area of our units work for HMSA, was with "high cost" -or- "complex care" patients. In early 1998 one of my RN staff [Mien Woo RN [221-6857] worked closely with Kapiolani hospital on selected "complex pediatric cases". One of these cases was Steven S. He was an HMSA pediatric patient who had suffered a significant birth trauma resulting in his needing intermittent ventilator support [i.e. a breathing machine intermittently]. Steven S. had lived in the Kapiolani pediatric ICU for several years. This was a "very high cost" case for HMSA. However, our nurse did not assess Steven S. to be a complex care pediatric case. To validate this assessment, HMSA had both trained nurses and physicians apply the "level of care" audit criteria known as "InterQual" to the medial chart of Steven S. [Contact Dr. Joseph Humphrey, former HMSA medical director, through the physicians exchange: 524-2575]. The results of the InterQual medical chart audit indicated that Steven S. did not even meet the acute care "level of care criteria". Yet, Kapiolani Hospital had been billing HMSA at the ICU level of care for years. HMSA medical directors became involved in speaking to the physicians in the pediatric ICU at Kapiolani and Kapiolani Administrators. The result was: a) HMSA recouped over \$700,000 of overbilling for Steven S. b) Soon after this determination to recoup monies, the HMSA nurses were no longer permitted on the grounds of Kapiolani hospital.

3) Other facts related to *Steven S.*: In 1999 Steven S. became a Medicaid patient and was still an in-patient at Kapiolani hospital. In 1999 Kapiolani hospital billed \$1 million dollars for Steven S., but Medicaid paid only \$394,000. In the year 2000 Kapiolani billed Medicaid \$897,000 for Steven S., but Medicaid paid only \$45,000. Clearly, health professionals representing Medicaid and following the Steven S. case came up with the same level of care assessment made by the "InterQual" level of care criteria used by the medical doctors and nurses that worked for HMSA.

4) In 2004, the last time I heard anything about the health of *Steven S*. I was told by a nurse colleague that "he was doing fine & except for his chronic respiratory problems, had developed in to an energetic 8 year old boy". Morale of the story: <u>Quality</u> pediatric medical care, is also <u>appropriate</u> level of care.

5) In 1998 "InterQual": Intensity of Service and Severity of Illness criteria was <u>the</u> national standard of practice clinical criteria used to <u>audit medical charts</u> to determine level of care. I understand from my HMSA colleagues that <u>Milliman clinical criteria</u> are <u>now utilized</u> to determine appropriate level of hospital care.

6) In 1998 there were approximately 30 pediatric patients in the Kapiolani Intensive Care Unit. By the end of 2004 there were more than 70 pediatric patients in the Kapiolani ICU. By late 2005 there were as many as 80 pediatric patients in the Kapiolani ICU and <u>most of them were on</u> <u>Medicaid.</u> 7) In August of 2005 I had the occasion to speak with the medical director for Medicaid, Dr. Lynette Honbo. She stated to me at that time that "Kapiolani doesn't want Pediatric InterQual; they have a "homegown" set of criteria they use to determine level of care".

8) In late 2005, I [Debra H. Wright APRN] ran into an old nursing colleague, Judith McGuire RN,MS the director of Home Care Services at Castle Medical Center [247-2828]. Castle Home Care she said "has the largest Pediatric Home Care population in the state of Hawaii". Ms. Judith McGuire told me that the Castle Home Care dept. "frequently gets kids discharged right out to of the Kapiolani Intensive Care Unit".

9) In 2006 the government entity whose job it is to determine appropriate level of care for Medicaid patients in the State of Hawaii was: Health Services Advisory Group [HSAG] of Arizona. The director is Margaret deHesse. Her email is: <u>mdeHesse@hsag.com</u>.

Before 2006 the government entity whose job it was to determine appropriate level of care for Medicaid patients in the State of Hawaii was: Mountain Pacific Quality Health Foundation, a local company. Their director was Dee Dee Nelson: 545-2550. Ms. Nelson stated to me that Mountain Pacific only did level of care and medical appropriateness random medical chart audits for 5% of the pediatric cases at Kapiolani over \$69,000.

10) In 2007 there were plans for Pediatric Medicaid cases to be re-imbursed via a <u>prospective</u> managed care payment rate. Therefore, there is no longer an economic incentive to <u>inappropriately</u> keep any patient at a higher level of care than is medically necessary. Thus, if Health Services Advisory Group [HSAG] services are no longer utilized, may I humbly suggest that the services of a well known and respected Health Insurer be contracted for a focused level of care <u>medical chart audit</u> [NOT CLAIMS] using scientifically proven valid "level of care" audit tools such as Milliman or InterQual. It is suggested that the focus of the medical charts audit be of pediatric cases listed below in "a, b, and c" and be for the four year period before prospective payment was implemented for the Kapiolani Medicaid ICU pediatric cases.

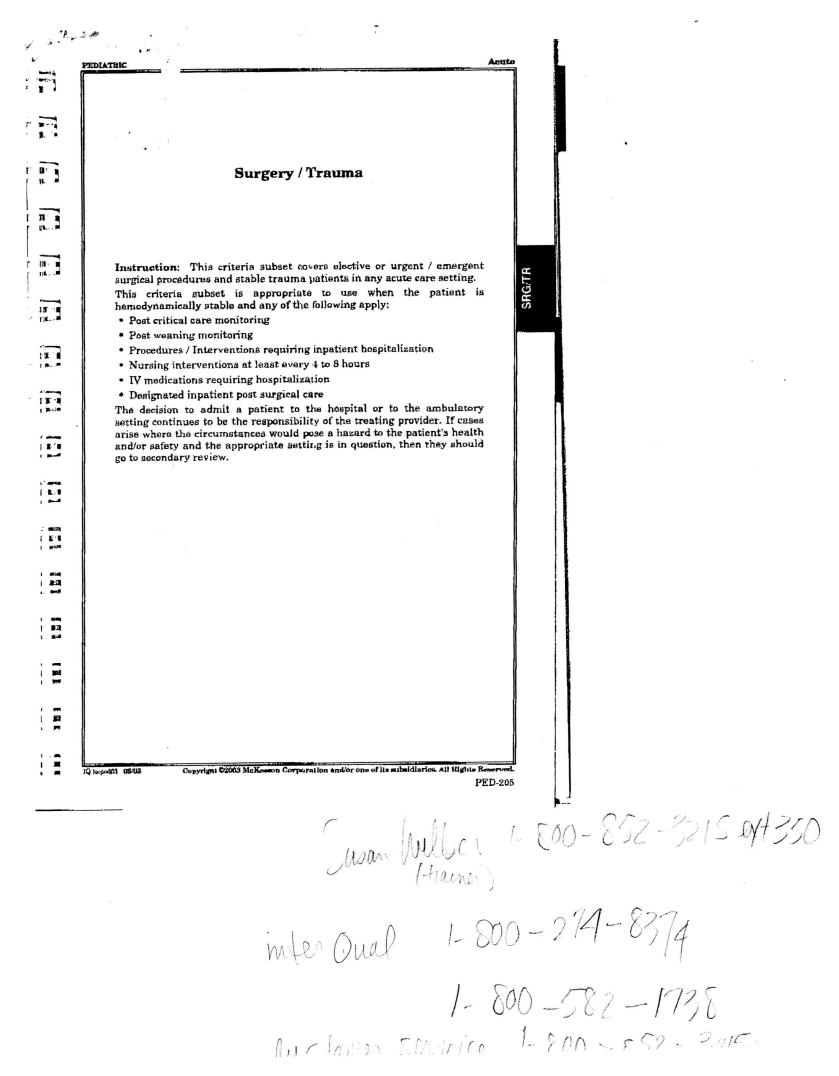
11) The Pediatric cases that are most likely to be <u>in</u>appropriately kept in the Kapiolani ICU before prospective payment are:

a) Babies or pediatric cases that are deemed ICU level of care by Kapiolani's "home grown" level of care criteria, but are then <u>discharged directly to any Home Care</u> program in the state of Hawaii.

b) Babies or pediatric cases who have been on a ventilator for more than six [6] months, <u>especially if</u> these babies receive intermittent ventilation treatments.

c) [to a lesser degree] Babies who are four [4] pounds or more and still <u>not</u> discharged from the Kapiolani pediatric Intensive Care Unit [ICU].

12) Will our State then build a much needed Pediatric Skilled Nursing facility for these Medicaid ventilator dependent children? From the late 1980s the Convalescent Center of Honolulu [1900 Bachelot Street] has had a pediatric unit for ventilator dependant children. They are re-imbursed at an "enhanced Skilled Nursing Level".



SEVERITY OF ILLNESS (Onset within 1 wk) RULE: 2 One SI			
CLINICAL FINDINGS	IMAGING FINDINGS		
bdominal mass (palpable)	Basilar akull fracture		
becass requiring I&D / percutaneous drainage and parenteral anti-infectives	Bowel distention with air fluid levels Bowel obstruction / Non-compressible		
cute abdomen (1)	appendix / loop of bowel		
ompartment syndrome / Limb ischemis (GIS)	Contrast material in peritoneal cavity		
<ul> <li>Designated inpatient setting and</li> </ul>	Dislocation, major joint prosthesis Ectopic pregnancy and increasing pain /		
performed same day as admission	bleeding <sup>(B)</sup>		
•High risk for thromboembolism <sup>(5)</sup> acial fracture <b>and</b> inability to take PO	Fistala (eg, H-type, T-E, rectourethral) Fracture / Dislocation, cervical / thoracic /		
racture / Wound, open	lumbar vertebrae		
cular trauma / Orbit fracture, ≥ one:	Fracture / Dislocation requiring open		
<ul> <li>Foreign body (intraocular / intraorbitul)</li> <li>Muscle entrapment</li> </ul>	reduction / reconstruction Gallbladder wall thickening /		
•Perforation / Laceration of eyeball	non-visualization / Common duct stone		
rbital / Facial / Lid trauma, severe	Hentoperitoneum		
Varian mass <b>and</b> increasing pain / bleeding langed admission post general unesthesia,	Hernia, incarcerated Hydronephrosis <sup>(048)</sup>		
2 une:	Intra-ubdominal mass / abscess		
<ul> <li>*Hx of apnea</li> <li>*Infant, ≥ one:</li> </ul>	Intracerebral space occupying lesion Intracerebral / Ventricular bleed		
Full term ≤ 45 wks post-conceptual age	Intussusception		
<ul> <li>Preterm ≤ 60 µks post-conceptual age ost umbulatory surgery / procedure</li> </ul>	Meckel's scan (+) for GI bleed Mediastinal shift / widening <sup>(058)</sup>		
complication unresolved after 2 24h	Occlusion / Dissection, peripheral artery		
observation care	Orbital fracture Organ laceration / rupture		
re-op admission, ≥ one: •Arrhythmia monitoring/stabilization	Ovarian cyst, ruptured		
·Bowel prep requiring NG tube placement /	Ovarian torsion		
IV hydration •Electrolyte imbalance, anticipated,	Pancreatitle / Pancreatic duct disruption Polvic fracture		
2 one: ((34)	Pleural effusion / Suspected empyema		
<ul> <li>Diabetic requiring IV fluids to avoid hypoglycemia</li> </ul>	Pneumoperitoneum / Free air under diaphragm Pneumotherax / Memotherax, traumatic (460)		
Renal failure / Adrenal insufficiency	Septic joint(s)		
•Multiple cardisc / pulmonary anomalles (*) •Neurologically / Cognitively disabled (%)	Spinal cord compression Subdural / Epidural hematoma		
lotinal detachment			
<ul> <li>rauma and hemodynamic stability, 2 one:</li> <li>Abuse, actual / suspected, resulting in</li> </ul>			
injury (8)			
<ul> <li>Blunt trauma (chest / abdomen)</li> <li>GCS B-14 (GBb)</li> </ul>			
*Head / Neck injury			
Penis, traumatic laceration / fracture			
<ul> <li>Pneumothorax, 2 one: <sup>(7, Geo)</sup></li> <li>Requiring cheat tobe</li> </ul>			
, Traumatic			
Vound dehiscence / evisceration			
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7	PEDIATRIC SUFFERY INTENSITY	OF SERVICE
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	One: •≥ One IS •≥ Three *IS	
	(Excludes PO medications unless nored)	(Excludes PO medications unless noted)
	Anticoagulants (IV) and high risk for thromboembolism ≤ 2d <sup>(2)</sup> Anti-infectives, ≥ one: <sup>(0)</sup> •≥ 2 anti-infectives	<ul> <li>Analgesias / Sedatives 2 3z/24h</li> <li>Antiarrhythmics (PO)</li> <li>Anticosgulants (PO/SC)</li> <li>Anticonvulsants (PO)</li> </ul>
	•Absolute neutrophil count < 500/cu.mm (500x10 <sup>4</sup> /L) <sup>1101</sup> •Appendicitis (ruptured / abscess) ≤ 7d	* Antiemetics ≥ 3z/24h * Antihypertensives (PO) * Anti-infectives * Blood products / Volumet
	•Cultures pending $\leq 2d^{(1)}$ •T > 100.4°F (38.0°C) PR (300) •T $\leq 100.4°F$ (38.0°C) PR and transition to PO $\leq 2gh^{(400)}$ Blood products and Het $< 25\%$ (0.25) <sup>(12)</sup>	<ul> <li>* Blood products / Volume expanders<sup>(G)(2)</sup></li> <li>* Bronchodilators (PO)</li> <li>* Complex wound / skin care ≥ 3x/24h<sup>(G)(4)</sup></li> <li>* Corticosteroids (PO) ≥ 2x/24h</li> </ul>
	Cardiac monitoring ≤ 24h, ono: •Chest trauma •Limb ischemia	<ul> <li>Dialysis / Ultrafiltration</li> <li>Diuratics ≥ 2x/24h</li> <li>Insulin adjustment ≥ 3x/24h (30)</li> </ul>
	Complex wound / skin care ≥ \$\$\frac{24h and}{5} = \$\$\frac{1}{5} min / analgesia (\$\frac{1}{14})\$ > 15 min / analgesia (\$\frac{1}{14})\$ Hyperbaric O2 <b>and</b> compromised wound (\$\frac{1}{5})\$	<ul> <li>* IV fluid replacement based on losses</li> <li>≥ \$2/24h and oliguris / inability to .</li> <li>establish oral intake <sup>(GS)</sup></li> <li>* Weidte (TDN / NG to diagr &gt; one <sup>(B)</sup></li> </ul>
	IV fluids, ≥ one: •Active vomiting / Intractable diarrhea •Ileus / NPO ≤ 2d •Berum Na > 145 mEg/L (145 mmol / L) •Unresponsive to antiemetics ≤ 24h <sup>(14)</sup>	* IV fluids / TPN / NG feedings, ≥ one: <sup>(31)</sup> •2 50 mL/kg/24h (≤ 10 kg) •2 40 mL/kg/24h (> 10 - 25 kg) •2 30 mL/kg/24h (> 25 - 60 kg) •2 75 mL/h (> 60 kg)
	Limb elevation <i>udth</i> neurovascular assessment <i>aud</i> Compartment syndrome / Limb ischemia <b>26x/24h</b> , <b>52d</b> <sup>(16)</sup>	<ul> <li>Neurologic assosament ≥ 3x/24h<sup>(15)</sup></li> <li>Oxygen ≥ 25% (0.26) / &gt; 1 L/min NC and oximetry / blood gas analysis<sup>(17, 072)</sup></li> <li>Respiratory drugs at least 3x/24h<sup>(33)</sup></li> <li>Respiratory interventions 1-2x/24h<sup>(33)</sup></li> </ul>
	Neurologic assessment $\ge 0x/24h, \le 2d^{(18)}$ Ostomy teaching $\le 24h$ Oxygen $\ge 30\% (0.30) / > 2.5 L/min NC /CPAP 17, 010, 010, 073)$	* Surgical debridement / Wound I&D
10 10	Post critical care ≤ 2d Post surgical care, ≥ one: <sup>(18)</sup> •Short stay review ≤ 24h <sup>(12)</sup> •Routine review ≤ 2d <sup>(24)</sup> •Major procedure review ≤ 2d <sup>(21)</sup> •Long atay review ≤ 4d <sup>(22)</sup>	
	Post tracheostomy ≤ 2d Post trauma monitoring ≤ 24h <sup>153</sup> Fre-op admission ≤ 24h, ≥ one: -Hemodynamic / Apneu monitoring - With Article (State Internet State Processor	
	•IV hydration / Electrolyte management •NG tube placement Progressive activity (PT / OT), both: <sup>124)</sup>	
ma ا	•≤ 24h •Home discharge expocted Pulmonary toilet ≥ 3x/24h : <sup>23</sup> /	
Bir pil	Rehabilitation screening $\leq 20^{126,277}$ Suction, chest tube / GI / wound <sup>128,297</sup> Volume expanders and Hct $< 30\%$ (0.30) <sup>1(010)</sup>	
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(At Least)		
RULE: Both: Clinic	al and Level of Cure	
	The second second	7
Clinical Ope:	Lèvel of Care Care needs could be met at alternate level	
*Abscess resolving	(refer to ALOC guidelines), 2 one: (30)	
Abuse / Noglect R/O'd / Alternate living arranged	•Home •Home Care / Hospice	
*Chest tube removed (34)	"Subacute / Skilled Nursing Facility (40)	1
*Fracture / Dislocation aligned / stabilized	•Rehabilitation, acute	
<ul> <li>GI suction D/C'd and PO fluids / dist tolerated / Nutritional route established (35)</li> </ul>	•Other ALOC	
•Intraoperative drains / tubes functioning		5
•Neurologically stable (36) •Post surgery last 12h, all:		
<ul> <li>Fever resolving</li> </ul>	1	
No evidence of bleeding		
<ul> <li>Pain controlled / manageable<sup>(37)</sup></li> <li>Passing flatus / stool</li> </ul>		
Passing urine		5
<ul> <li>PO fluida / Diet tolerared (36)</li> <li>Vital signs stable for age (38)</li> </ul>	1	
<ul> <li>Surgical complications resolved, 2 one:</li> </ul>		
<ul> <li>Bleeding controlled / Hct &gt; 25% (0.25) / return to baseline (12)</li> </ul>		
<ul> <li>BUN / Creatinine w/In acceptable</li> </ul>		
ranges / HCO3 > 18 mEq/L (18 mmol / L) • Fever resolving		ł
• HCO <sub>3</sub> > 18 $mEq/L$ (18 $mmol/L$ )		
<ul> <li>Infection (signa, symptoma, laba)</li> </ul>		
improving • K <b>3.3-5.0</b> mEg/L (3.3-5.0 mmol/L)		
• Nu 135-145 mEq/L (135-145 mmol/L)		
<ul> <li>Neurologically stable <sup>(36)</sup></li> <li>Q<sub>2</sub> sat &gt; 98% (0.93) / return to baseline</li> </ul>		j
Vital signs stable for age (38)		
•Trauma, all: • Internal injuries R/O'd / stabilized		
<ul> <li>Neurologically stable (38)</li> </ul>		
<ul> <li>Pain / Spasm controlled / manageable <sup>(37)</sup></li> <li>Physical impairment controlled /</li> </ul>		
improving / Rehabilitation care planned		
<ul> <li>PO fluids tolerated / Nutritional route established (30, 067)</li> </ul>	1	
· Vital signs stable for sge (32)		
•Wound dehiscence healing / manageable		
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peday usan Copyright 02008 McKesson Corr	wration and/or one of its subsidiaries. All Dights Reserved	

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FEDIATRIC	Surgery / Trauma	Acute
	NOTES	
of unknow rigidity, ar a physicia adequate i treatment meet this indicative	bedomen is the acute onset of new, severe abdominal vn etiology. It may be characterized by rebound tender r guarding and can be accompanied by fever and increa an uses the phrase "acute abdomen" to describe to for admission to the acute level of care since surgist may be necessary. Acute abdominal pain alone is a criteria point. The presence of an acute abdome of a surgical emergency; certain medical condition int as an acute abdomen.	erness, abdominal eased WBC. When the patient, it is cal exploration or not adequate to on is not always
guidelines setting. 7	tion: In the absence of an institutional list, Mu s for surgery and procedures typically performed This list must be reviewed and approved by the m pup before it is implemented.	in the inpatient
continues the circum the approp (These gu	ion to admit a patient to the hospital or to the ar to be the responsibility of the treating provider. If on instances would pose a hazard to the patient's health priate setting is in question, then they should go to me uidelines are found in the Appendix of the book of anager Help).	ases arise where and/or safety and edical review.
8: This cate associated thromboen	tegory includes patients who have had an acute to I with catheter insertion, or those with a histo mbolism. Patients with congenital or acquired heart d	ory of recurrent lisease, prosthetic
antithrom) most like) high-risk	ves, or hereditary disorders of clotting (e.g., Protein bin III deficiencies) who are currently receiving anti- ly need to be admitted prior to surgery. It is re patients have uninterrupted anticoagulation	congulants would commended that
4: Patients	ation prior to surgery. with a history of congenital heart disease, pulmons diaphragmatic hernis, BPD, cystic fibrosis, lung	
adenomato for medica	oid malformation are often admitted to the acute leve a) management, such as IV placement, pulmor mic monitoring for volume shifts and shunting.	l prior to surgery
disabled in	s of patients who would qualify as neurologicall nclude those with multiple disabilities, severe ments rebral Palsy.	
injury, clin abuse or n	nould be suspected and appropriate interventions in nical history, or the diagnostic findings suggests the p non-accidental injury. Child abuse can manifest its sexual, or emotional abuse. Neglect is the failure to	ossibility of child elf as neglect, or
care and pu medical car of injury b	protection. It may involve failure to feed the child ad re, or to protect the child from danger. Physical abus by a caretaker. It may take the form of beating, k hods. Injuries associated with physical abuse ar	equately, provide e is the infliction icking, biting, or
internal he sexual beha of them use	emorrhages, bruises, burns, and poisoning. Sexual avior between a child and an adult, or between two cl ses coercion. Definitions of abuse vary from state to	abuse refers to hildren when one state (Bernat et
7: Instructi	Acad Child Adolesc Psychiatry 1997: 36 (supp 10): 48s. fion: At the Observation level, patients are general contaneous pneumothorax where a chest tube is not re (Note continued on act page)	ly admitted with
Discretelia (CAVO)	Copyright 0/2003 McKasson Corporation and/or one of its subaid	arien All Rights Henerved.
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Acute	Surgery / Trauma	PEDIATRIC	1
	NOTES	F	1.
At the Acute lev	el, parients with a pneumothorux are generally	admitted when:	
<ul> <li>It is traumation</li> </ul>	in origin		

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- It requires chest tube insertion
- . The patient experiences symptoms which meet the Respiratory / Chest SI criteria

8: An admission for ectopic pregnancy should occur when there is evidence of a ruptured tube; severe abdominal pain with at least 7 weeks of amenorrhea; adnexal mass with prior ectopic pregnancy, HCG ≥ 1500 IU/mL and no intrauterine gestational sac on transvaginal ultrasound.

9: Care Management: Many patients are candidates for completing their anti-infective treatment regimen in an alternate level of care (e.g., Home Care, Subacute). Patients may be safely transferred or discharged to an alternate setting when there is evidence of hemodynamic stability, the organism has been identified, the appropriate anti-infective regimen is tolerated with or without premedication, and an appropriate access device has been inserted. In choosing an appropriate intravenous access device, the anti-infective being administered, the venous access of the patient, the anticipated length of therapy and the setting where the patient will complete their course of therapy is considered. Intravenous catheters include central catheters (tunneled, non-tunneled, implanted ports, PICCs) and peripheral catheters (midclavicular, midlines, extended dwell or short-term peripheral lines).

#### **Discharge Planning:**

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When determining the most appropriate care setting, the case manager will assess the complexity of the treatment regimen, active co-morbidities, the cognitive and functional capacity of the patient and/or caregiver, the capacity for the patient or caregiver to learn the required administration procedures, the availability of services (home care agency with infusion expertise, pharmacy and laboratory monitoring) and the home environment.

For patients being discharged home with intravenous anti-infectives, the discharge plan must include instruction for the patient and/or caregiver on self-management of the infusion therapy. Teaching self-management of infusion therapy includes instruction in some or all of the following:

- Aseptic technique
- · Storage and handling of medications, equipment, and supplies
- · Initiating and discontinuing the infusion
- · Access device assessment, flushing, dressing, and cap change
- Disposal of medications and supplies
- Safety precautions
- Re-ordering medications, supplies, and equipment
- · Identification of complications or untoward effect the of the access device and medication
- When to call the physician or nurse
- · Follow-up appointments with the health care provider

10: The absolute neutrophil count (ANC) can be calculated using the following formula:

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ANC = WBC x (%bands + %mature neutrophils) x 0.01

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PEDIATRIC	Surgery / Trauma	
	NOTES	
preliminary	results can take longer than 2 days, but there should by report by the laboratory showing growth. In certain circumstants, transplant patients) an anti-infective is often initiated based re results.	nces
	only value available is a hemoglobin, the hematocrit can ted by multiplying the hemoglobin by 3.	be
the rational prevention compromise tissue infe Managemen patients wi	overy of beneficial cellular and biochemical effects has strengthe ile for administering hyperbaric oxygen as an adjunct therapy for and treatment of osteoradionecrosis, clostridial myonecro- ed skin grafts and flaps, refractory osteomyelitis, and necrotizing actions (Bryant et al. in Acute & Chronic Wounds: Nur- nt, 2000, p431-458). Problem wound healing frequently occurs ho are systemically or locally compromised. Tissue hypoxia is non denominator. For skin grafts to be successful, the recipient g	the osis, soft sing s in the
site must b oxygen is o Hyperbaric and is appli	be of the health and quality to accept the graft. Availability of tis critical to success of skin grafting and subsequent graft survi coxygen has been shown to be useful in improving tissue oxygena lied in situations where there is swidence of, or a high probability ed graft healing.	ival. ition
PO. It is a	nsive to antiemetics refers to the patient's inability to take anyth continued experience of nausea and/or vomiting despite having t repeatedly with antiemetics.	- 1
compromise	vascular assessment is done to identify any signs of neurovasc e and should include the following: ion of the quality of the peripheral pulses and capillary refill rate	ular
	sessment sent for warmth in the extremity otor and sensory function of fingertips and toes	
painful pa	f any of the following signs suggests neurovascular comprom assive motion, pallor of the extremity, paresthesias, paraly ass or diminished pulses, or polkilothermia (decreased temperature	ysis,
that subtle greatly affe	rologic assessment of the pediatric patient establishes a baselin changes can be monitored. Neurologic disorders vary widely and ect functioning. A comprehensive neurological examination is a se	can erial
consciousne irritability equality, ar	of all of the following: intracranial pressure (if elevated), leve ess, muscle tone and posturing, seizure activity, paresis / paraly / hyperexcitability, reflexes, pupillary reaction (evaluation of a nd reaction to light). In older children, assessment of known for	ysis, size, ocal
evaluated	deficits, such as aphasia, ataxia, or dysarthria, should also (Gomella, ed., Neonatology: Management, Procedures, On-( Diseases, Drugs, 1999; O'Hanlon-Nichols, Am J Nurs 1999; 99	Call
• ≥ 25% (.2	tion: There are four levels of oxygen therapy used as criteria: 25 FiO2) - used in IS Observation, IS Eye. Ear, Nose, and Throat s), IS Skin / Connective Tissue (for Burn therapy), and #IS Acute c	
• ≥ 35% (.9	30 FiO <sub>2</sub> ) - used in IS Acute Care and *IS Intermediate care 35 FiO <sub>2</sub> ) - used in IS Intermediate Care and *IS Pediatric Intens argical-Trauma Intensive Care (Note continued on next page)	sive
a Juciandos Ostavas	Copyright (2003) McKesson Copyright on phone of its subsidiaries. All Rights B	

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Acuto	Surgery / Trauma
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≥ 40% (.40 FiO<sub>2</sub>) - used in IS Critical Care.

To meet the Intensity of Service (IS) for each of these levels, see the glossary note [Oxygen Delivery (Pediatric)] delineating which devices are most appropriate to deliver the specified amount of oxygen.

18: Post surgical care begins when the patient leaves the recovery room. The days indicated in this criteria do not refer to a length of stay, but rather to the recommended time frame in which a review should take place after surgery. This is assigned as the next review date for the case. It would be acceptable to review the case any time before the completion of the assigned days. However, once the time frame has been established, other IS/\*IS are required to validate continued stay.

Instruction: When a patient undergoing surgery has a current or past history of chronic pain and is on a drug regimen to manage it, there are special considerations that must be a part of their postoperative pain management care. These patients do not only experience normal postoperative pain but also the day-to-day chronic pain for which they have sought treatment. These patients may require significantly higher dosages and/or combinations of pain medications to manage their pain and promote a quick recovery. If these pain needs are ignored and routine postoperative pain management regimens are followed, the patient's stay may be prolonged.

- 19: Examples of procedures considered short stay (review to occur no longer than 1 day post-op) include, but are not limited to, appendectomy (non-perforated appendix), ACL repair, laparoscopic cholocystectomy, pyloroplasty, T & A for obstructive disease, cleft repair, ORIF ankle / foot / humerus / ulna / radius, parotidectomy, thyroidectomy, lymphangioma excision, repair of complex wounds, complex hypospadias repair, diagnostic laparoscopy, hernia repair on a premature infant < 60 postconceptual weeks, or resection of posterior urethral valves. This list is not intended to be all inclusive and can be modified.
- 20: Examples of procedures considered for routine review (review to occur no longer than 2 days post-op) include, but are not limited to, gastrostomy tube creation, exploratory laparotomy, enterolysis, Ladd's procedure, intussusception reduction, closed reduction or ORIF of tibia / fibula, perineal procedure for imperforate anus. This list is not intended to be all inclusive and can be modified.
- 21: Examples of procedures considered major (review to occur no longer than 3 days post-op) include, but are not limited to, common bile duct exploration, Meckel's resection, ureteral implant, reconstruction for intersex, ruptured appendectomy, open cholecystectomy, nephrectomy, or splenectomy. This list is not intended to be all inclusive and can be modified.
- 22: Examples of procedures considered long stay (review to occur no longer than 4 days post-op) include, but are not limited to, thoracotomy, major burns, craniotomy, liver resection, portcenterostomy, endorectal pull through, repair of intestinal atresia, repair congential heart disease, repair diaphragmatic hernia, antireflux procedure (fundoplication, Nissen), pancreatic surgery, large bowel (colon) resection, small bowel resection, creation of colostomy, extremity amputation, closed reduction femur fracture (spica cast), scoliosis corrective surgery, repair omphalocele and gastroschisis, organ transplant, cystectomy, major tumor resection (Wilm's, sarcoma, neuroblastoma), bladder augmentation, or extrophy repair. This list is not intended to be all inclusive and can be modified.

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23: Post trauma monitoring refers to those patients who are not at immediate risk, and whose surgery will be performed the following day.	
24: Instruction: Progressive activity refers to those activities which are PT / OT in nature but can be (and generally are) performed by nursing. These activities include, but are not limited to, ROM, transfers, out of bed, ambulation, and crutch walking. This is generally required for debilitated patients who require instruction and who can practice in anticipation of safe discharge to home.	
25: Aggressive pulmonary toilet includes frequent turning, postural drainage, ambulation, nasotracheal suctioning, coughing, deep breathing, incentive spirometry, and chest physiotherapy. These techniques help to mobilize secretions and prevent atelectasis.	
26: This two-day period allows for rehabilitation or medical assessment and intervention to define the degree of impairment related to stroke, head trauma, CHF, debilitation, trauma, scute myocardial infarction, or post-surgical and to facilitate transfer to the next appropriate rehabilitation or therapy level.	SRGATR
27: The current and preadmission level of function should be assessed to determine any new physical / cognitive functional limitations requiring intervention. Based on findings, evaluations by Physical Therapy, Occupational Therapy, and/or Speech-Language Pathology should be scheduled, once the patient is stabilized, to further assess the change in function and post acute care needs.	<i>o</i> ,
28: These forms of suction are referring to continuous closed wall suction.	
29: Care Management: Chest tubes are inserted to evacuate air or fluid from the pleural space.	
<ul> <li>Chest tubes may be connected to a water-seul drainage system or a Heimlich valve</li> </ul>	
<ul> <li>If lung re-expansion does not occur with use of a Heimlich value, the chest tube is attached to a water-seal drainage system with or without suction</li> </ul>	
<ul> <li>If lung re-expansion does not occur with a water-seal system, suction is added</li> <li>When there is no evidence of air leak, the lung is fully expanded, and there is minimal drainage, the chest tube is clamped</li> </ul>	
<ul> <li>Serial chest x-rays are performed to ensure that there is no re-accumulation of air or fluid prior to removal of the chest tube</li> </ul>	
• A final chest x-ray is performed after the chest tube is removed	
<ul> <li>Patients who require a chest tube for extended periods of time may be managed at an alternate level of care</li> </ul>	
Discharge Planning:	
Patient and caregiver education to include: the reason the chest tube is required, where the chest tube is located, how long the chest tube is likely to be needed, care of the chest tube and dressing, symptoms to be reported to the physician,	
when to seek emergency care, and troubleshooting for the particular device being used (Carroll, Home Healthc Nurse 2002; 20(7): 434-441).	
Follow-up care should include an appointment with the physician, obtaining the equipment needed for care of the chest tube and device, and home care services if ordered.	
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	NOTES	
	a point applies to insulin adjustments made ba whether a sliding scale is used or the physician	
requirement a weaned. Main body weight (k	tes have been set at $\geq 50\%$ (0.50) of the main illowing for advancement of enteral feedings as tenance fluid requirements (mI/kg/d) are calcula (g): 100 mL/kg/d for 1st 10 kg, 50 mL/kg/d for 2nd (ch additional kg in weight (Gunn and Nechyba, ed (k, 2002).	IV fluids are ited on current 1 10 kg, and 20
necessary to determine if the lb to kg, divide	s weight is in lb(s) and/or the fluid rate is in m convert to the appropriate unit of measurement of criteria point can be met. To convert the patient a by 2.2 lb/kg to arrive at the weight in kg. Multip 24 to calculate the volume of fluid infused over 2	nt in order to it's weight from ply the infusion
total volume by subset to deter	y the weight in kg to arrive at mL/kg/24h. Now refe mine if the criterion is met, (lcc = 1mL)	er to the criteria
	f a child weighs 37 lb and is ordered an IV at S0mL d by 2 2lb/kg = 16 8kg	/h.
	d by 2.2lb/kg = 16.8kg aultiplied by 24 = 720 mL/24h	
	divided by 16.8kg = 42.9 mL/kg/24h	
IV fluids ≥	40 mL/kg/24h (>10-25 kg) would be applied as the ne patient mosts criteria since the infusion rate of	42.9 is greater
or aerosol, for	drugs are any drugs delivered by any parenteral a the treatment of a respiratory condition. Some ex- s, steroids, beta-agonists, and anticholinergic agent	amples include,
	interventions include blood gue / oximetry / apr ing changes, chest physiotherapy, suctioning, and a	
removed and pneumothorax care, such as s certain chroni effusion and th	n: When a patient is being discharged home, the a chest x-ray post removal should show . However, a patient being transferred to an all ubacute care, could still have a chest tube to water ic conditions that lead to recurrent pneumotho hese patients may be sent home with a small chest a valve (Tierney et al., eds., Current Medical 01, p. 344).	no / minimal ternate level of seal. There are orax or pleural t tube attached
requirements. current body w at 150 ml/kg/d lst 10 kg, 50 n	e should be greater than the patient's mai Maintenance fluid requirements (mL/kg/d) can b reight (kg). For children < 20 kg, fluid requirement lay. For children $\ge$ 20 kg, the following applies: 1 mL/kg/d for 2nd 10 kg, and 20 mL/kg/d for each a and Nechyba, eds., The Harriet Lane Handbook, 20	e calculated on ts should be set 00 mL/kg/d for dditional kg in
controlled, the / unchanged se there are no n	stability in the pediatric patient requires that re is absence of generalized seizures (e.g., grand m sizure pattern, there is no deterioration of the mer ew neurologic deficits. Another indicator of neurolo- elopmental progress and stability. For children less (Nore continued on next page)	at seizures are fragmental or improved that status, and logic stability in

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DIATRIC	Surgery / Trauma	Acute
	NOTES	
hospitalization	those $\leq$ 6 years, any developmental milestones lost should be regained or there should be progress to thas developed, then no further deterioration should	ward recovery.
analgesics, Ho	n: Pain should be controlled without the use wever, if the pain is being controlled on a PCA pur rged, depending on availability, to an alternate leve abacute, SNF).	p, the patient
diastolic), hear	tability requires that the temperature, blood pressur rt rate, and respiratory rate must all be within the ic patient's age or at baseline, if baseline is known.	e (systolic and normal ranges
39: Instruction or in CareEnha	n: Alternate level of care guidelines can be found in ance Review Manager Help.	
available, the could be cared	are may be unavailable in many areas. If Subac following are examples of some of the patient po for at this level of care:	ute care were pulations that 0
	infants (feeders / growers, BPD)	
<ul> <li>Full term : congenital a</li> </ul>	infants with complications (intrauterine / postna momalies)	tal infections,
	Diabetes (controlling of symptoms, education of pa	tient / family,
	dependent (mechanical ventilation, oxygen s	upport, TPN,
	ny care, etc.) netic disorders	
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