

How to Meet Timelines in Trauma



ONTARIO PREHOSPITAL ADVANCED LIFE SUPPORT STUDY

OPALS PRG Annual Meeting

Ottawa 2008

Achieving HSD Timelines

- It's a beast of a task!
- Start the process immediately!



Achieving HSD Timelines

- **Start process immediately**
- **Fax ACR and Dispatch Reports**
- **Notify Trauma Services**
- **Fax CT Head Reports**
- **Request CT discs promptly**
- **Submit discs as soon as possible**

Achieving HSD Timelines

- **Photocopy pertinent documents:**
 - **ED Record of treatment**
 - **ED Nurses notes**
 - **First five days of ICU notes**

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- Review the records in the peace and tranquility of your office!



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For patients with extended stays in ICU:

- **Enter admission date/time on web form**
- **Enter the intubation time then save the record**
- **Print the ICU web form and go to ICU**
- **Observe the starting date**
- **Collect data every other day**

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You will need the chart for some items such as HR, MAP, CVP, Pressors, Peep

1. **Initial ICU admit:**

Date: [25-06-2008] (dd/mm/yyyy) Time: [15:10] (hh:mm)

2. **Cardiovascular failure (day 0-28):**

Day	Date (dd/mm/yyyy)	Heart Rate	MAP	CVP	PRESSORS	Discharged	Readmitted
0	[25-06-2008]	↓	↓	↓		<input type="checkbox"/>	<input type="checkbox"/>
1	[26-06-2008]	(bpm)	(mmHg)	(mmHg)	NA/NR	Yes No	<input type="checkbox"/>
2	[27-06-2008]	[85]	[87]	[7]	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="checkbox"/>
3	[28-06-2008]	[]	[]	[]	<input type="checkbox"/>	<input type="radio"/> <input type="radio"/>	<input type="checkbox"/>
4	[29-06-2008]	[80]	[79]	[12]	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="checkbox"/>
5	[30-06-2008]	[]	[]	[]	<input type="checkbox"/>	<input type="radio"/> <input type="radio"/>	<input type="checkbox"/>
6	[01-07-2008]	[100]	[114]	[10]	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="checkbox"/>
7	[02-07-2008]	[]	[]	[]	<input type="checkbox"/>	<input type="radio"/> <input type="radio"/>	<input type="checkbox"/>
8	[03-07-2008]	[98]	[97]	[10]	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="checkbox"/>
9	[04-07-2008]	[]	[]	[]	<input type="checkbox"/>	<input type="radio"/> <input type="radio"/>	<input type="checkbox"/>
10	[05-07-2008]	[85]	[103]	[]	<input checked="" type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="checkbox"/>

Achieving HSD Timelines

- Labs like PaO₂ and FiO₂ you may have available electronically

Never ventilated → Skip to item 5
 Initial intubation → Date: [25-06-2008] (dd/mm/yyyy) Time: [12:43] (hh:mm)

Day	Date(dd/mm/yyyy)	Ventilated	PaO ₂	(%)FiO ₂	PEEP	CXR: bilateral infiltrates?	ALI	ARDS	Vt? If Yes to ALI/ARDS	Extubated	Reintubated
0	[25-06-2008]		↓	↓	↓				↓	<input type="checkbox"/>	<input type="checkbox"/>
1	[26-06-2008]	Yes No	mmHg	(decimal)	(cmH ₂ O)	Yes No	Yes No	Yes No	(ml/kg/pbw)	<input type="checkbox"/>	<input type="checkbox"/>
2	[27-06-2008]	<input checked="" type="checkbox"/> <input type="checkbox"/>	[82]	[0.50]	[5.00]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
3	[28-06-2008]	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	[]	[]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
4	[29-06-2008]	<input checked="" type="checkbox"/> <input type="checkbox"/>	[81]	[0.40]	[5.00]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
5	[30-06-2008]	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	[]	[]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
6	[01-07-2008]	<input checked="" type="checkbox"/> <input type="checkbox"/>	[]	[0.40]	[5.00]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
7	[02-07-2008]	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	[]	[]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
8	[03-07-2008]	<input checked="" type="checkbox"/> <input type="checkbox"/>	[82]	[0.350]	[5.00]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
9	[04-07-2008]	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	[]	[]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
10	[05-07-2008]	<input checked="" type="checkbox"/> <input type="checkbox"/>	[84]	[0.40]	[5.00]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>
11	[06-07-2008]	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	[]	[]	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	[]	<input type="checkbox"/>	<input type="checkbox"/>

Achieving HSD Timelines

- PaO₂ and FiO₂ obtained from Lab reports
- Determine p/F ratio
- If p/F ratio < 300 order chest x-ray on disc
- Send disc to Ottawa ASAP
- Liaise with Ottawa RCC to assess for ALI/ARDS using study guidelines

Achieving HSD Timelines

Collect Platelets, Bilirubin and Creatinine

Other organ failure (day 0-28): (Data points collected every other day, in ICU only)

Day	Date(dd/mm/yyyy)	Indicate unit of measure, then enter value or check NA/NR for not available/not recorded						GCS			MOD score calculated
		Platelets		Bilirubin		Creatinine		E	V	M	
0	[25-06-2008]	<input type="radio"/> x 10 ³ /µL		<input type="radio"/> mg/dL		<input type="radio"/> mg/dL					
1	[26-06-2008]	<input checked="" type="radio"/> x 10 ⁹ /L		<input type="radio"/> µmol/L		<input checked="" type="radio"/> µmol/L					↓
		<input type="radio"/> x 10 ³ /ml ³	NA/NR		NA/NR		NA/NR				
2	[27-06-2008]	[101]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[74.00]	<input type="checkbox"/>	[1]	[1]	[4]	[]
3	[28-06-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]
4	[29-06-2008]	[113]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[55.00]	<input type="checkbox"/>	[2]	[1]	[4]	[]
5	[30-06-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]
6	[01-07-2008]	[258]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[50.00]	<input type="checkbox"/>	[4]	[2]	[5]	[]
7	[02-07-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]
8	[03-07-2008]	[313]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[66.00]	<input type="checkbox"/>	[4]	[2]	[6]	[]
9	[04-07-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]
10	[05-07-2008]	[450]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[67.00]	<input type="checkbox"/>	[4]	[1]	[6]	[]
11	[06-07-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]
12	[07-07-2008]	[369]	<input type="checkbox"/>	[]	<input checked="" type="checkbox"/>	[58.00]	<input type="checkbox"/>	[4]	[1]	[6]	[]
13	[08-07-2008]	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	<input type="checkbox"/>	[]	[]	[]	[]

Achieving HSD Timelines

Neurological Page

- Enter date and time ICP placed
- Programming identifies parameters

ICP Monitoring?

No

Yes → Date placed: [15-05-2007]
 → Time placed: [18:00]
 → Opening ICP: [14] mmHg → Initial CPP: [55] mmHg

Hours	Date/Time		Highest ICP (mmHg)	# hrs ICP > 25	# hrs CPP < 60	Total gm/kg Mannitol	NA/NR
	From	To					
0-12	[15-05-2007] [18:00]	[16-05-2007] [06:00]	[43]	[10.00]	[8.00]	[1.530]	↓
12-24	[16-05-2007] [06:00]	[16-05-2007] [18:00]	[50]	[4.00]	[0.00]	[0.00]	<input type="checkbox"/>
24-36	[16-05-2007] [18:00]	[17-05-2007] [06:00]	[]	[]	[]	[]	<input checked="" type="checkbox"/>
36-48	[17-05-2007] [06:00]	[17-05-2007] [18:00]	[]	[]	[]	[]	<input checked="" type="checkbox"/>
48-72	[17-05-2007] [18:00]	[18-05-2007] [18:00]	[]	[]	[]	[]	<input checked="" type="checkbox"/>

Achieving HSD Timelines

Use website tools to guide you

- **Episode list splits and sort**
 - **Tells you at a glance**

C = Complete R = Required

E = Error P = Problem

F = Form set to Finished

Achieving HSD Timelines

Use website tools to guide you

- **Case Summary**
 - Tells you form due dates
 - Tells you follow up due dates

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Use website tools to guide you

- **Form close out request system**
 - **Discuss with Ottawa RCC first**
 - **Return to request page for CTC feedback**
 - **Do not assume you are finished**

Achieving HSD Timelines

Use website tools to guide you

- **Missing Vital Status/Follow Up Reminder**
 - **Always available**
 - **Look for your site linking ID**
 - **Informs you of due dates**

Achieving HSD Timelines

Use website tools to guide you

- **Timeliness Report**
 - **Always available**
 - **Tells you which forms are required**
 - **Status**

Achieving HSD Timelines

- **Start immediately**
- **Be methodical**
- **Enter dates and times promptly**
- **Let the programming be your guide**
- **Double check status after editing**
- **Do not leave forms unfinished**

Achieving HSD Timelines

- **Communicate with Ottawa RCC**
- **Use available tools on website**
- **Request form close out if necessary**
- **Ensure all forms are C status or F status**
- **E-mail for help**

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Thank You!

