

***The OPALS
Prehospital Research
Group***



ONTARIO PREHOSPITAL ADVANCED LIFE SUPPORT STUDY

Annual Site Investigators Meeting - 2006

***The Resuscitation Outcomes
Consortium Studies:
The ROC Epistry***



Inclusion Criteria

Cardiac Arrest

- All ages
- treated by EMS & non-treated (code 5)
- DNR patients
- Non-cardiac etiology (i.e. hanging, drug OD, drowning etc.)

Trauma

- SBP \leq 90
- RR $<$ 10 or $>$ 29
- GCS \leq 12
- Intubated
- Died in the field

* Any one or more of the above with a blunt , penetrating or burn injury.

What Do We Capture?

- **EMS time intervals**
- **EMS medical and operational variables**
- **Utstein variables**
 - **trauma and cardiac**
- **CPR process variables**
 - **Hands off, CPR frequency, ventilations**

Complete this form for:
 -each episode meeting the trauma or cardiac arrest
 definition as outlined in question 2
 Main data source: PCR/Dispatch



Date of episode: [] / [] / [] (mm/dd/yyyy)
 Time call received at dispatch (24hr clock): [] : [] : [] (hh:mm:ss)
 Incident Number: (Optional) [] - [] - []
 Episode ID: (always use when referring to this episode)
 [] - [] - []
 From PCR/other
 From dispatch

1) EMS response:

Arriving Vehicle	Agency Name	Vehicle ID	Number of Personnel	Service Level				Time of Arrival (hh:mm:ss, 24hr)
				BLS	BLS-D	BLS+	ALS	
1 st	[]	[]	[]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	[] : [] : []
2 nd	[]	[]	[]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	[] : [] : []
3 rd	[]	[]	[]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	[] : [] : []
4 th	[]	[]	[]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	[] : [] : []

2) Episode characteristics: (check all that apply)

- Cardiac arrest: Definition
 Out-of-hospital cardiac arrest (from any cause), evaluated by organized EMS personnel and:
 Treated by EMS - receive attempts at external defibrillation (by lay responders or emergency personnel), or receive chest compressions by organized EMS personnel; OR
 Not treated by EMS - are pulseless but do not receive attempts to defibrillate or CPR by EMS personnel. This group will include patients with do not attempt resuscitative directive signed and dated by a physician, extensive history of terminal illness or intractable disease, or request from the patient's family.
- Traumatic injury: Definition
 Out-of-hospital injury, evaluated by organized EMS personnel and:
 Treated - meet one or more of the following physiologic criteria: (check all that apply)
 Systolic blood pressure \leq 90 mmHg
 Respiratory rate < 10, > 29
 Intubated
 Glasgow Coma Scale score \leq 12
 Died in field
 Dead at scene without EMS treatment
 Number of patients on scene including current patient: []

3) Any indication that the patient was enrolled in another clinical trial?

- No
 Yes, ROC clinical trial
 Cardiac study → ROC Episode ID: [] - [] - []
 Trauma study → ROC Episode ID: [] - [] - []
 Yes, non-ROC clinical trial → Specify: [] (60)

Name of person responsible for data on this form

Name: []

Enroll
 draft version
 10/31/05

(end of form)

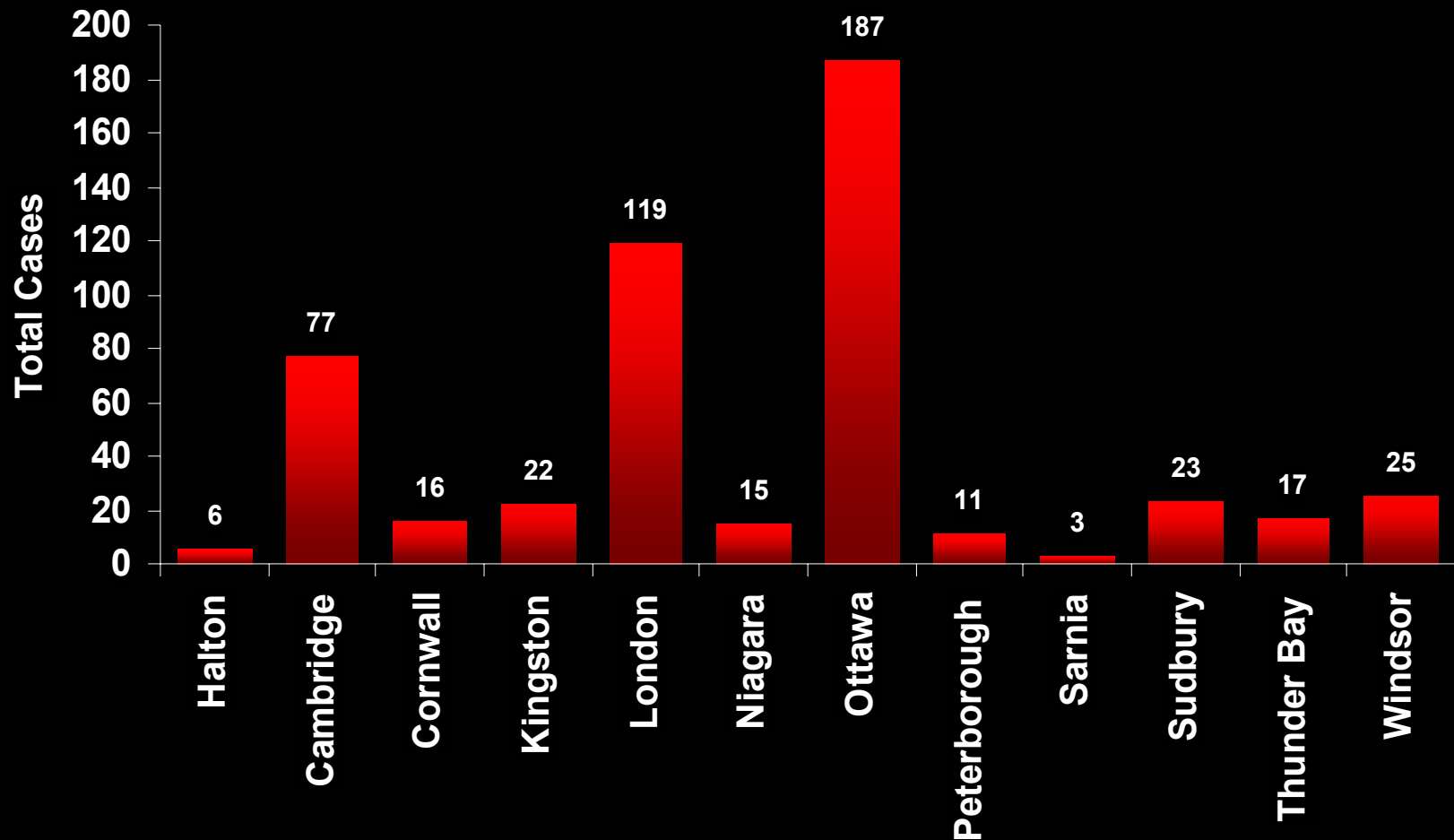
OPALS PRG and the ROC Registry

- Initial roll-out Dec. 1 2005
- ACRs and Dispatch Records within 2 weeks
- Survival info and ECG records later
- Expanded Cardiac
- Trauma

Trauma Recruitment by Site

Site	Total Enrolled	Enrolled in Last 2 weeks	Vital Status Unknown	EMS Treatment	PreHosp Forms Complete
Alabama	513	13	213 (42%)	469 (91%)	230 (45%)
Dallas	627	54	192 (31%)	531 (85%)	608 (97%)
Iowa	43	0	4 (9%)	22 (51%)	42 (98%)
Milwaukee	350	48	75 (21%)	342 (98%)	344 (98%)
Ottawa	514	42	193 (38%)	387 (75%)	388 (75%)
Pittsburgh	321	58	115 (36%)	274 (85%)	306 (95%)
Portland	196	0	102 (52%)	179 (91%)	169 (86%)
Seattle/KC	925	69	102 (11%)	843 (91%)	913 (99%)
Toronto	430	153	0 (0%)	388 (90%)	430 (100%)
Vancouver	381	23	189 (50%)	288 (76%)	281 (74%)
San Diego	0	0	0	0	0
Total	4300	460	1185 (28%)	3723 (87%)	3711 (86%)

Trauma Recruitment by OPALS Site (N=518)



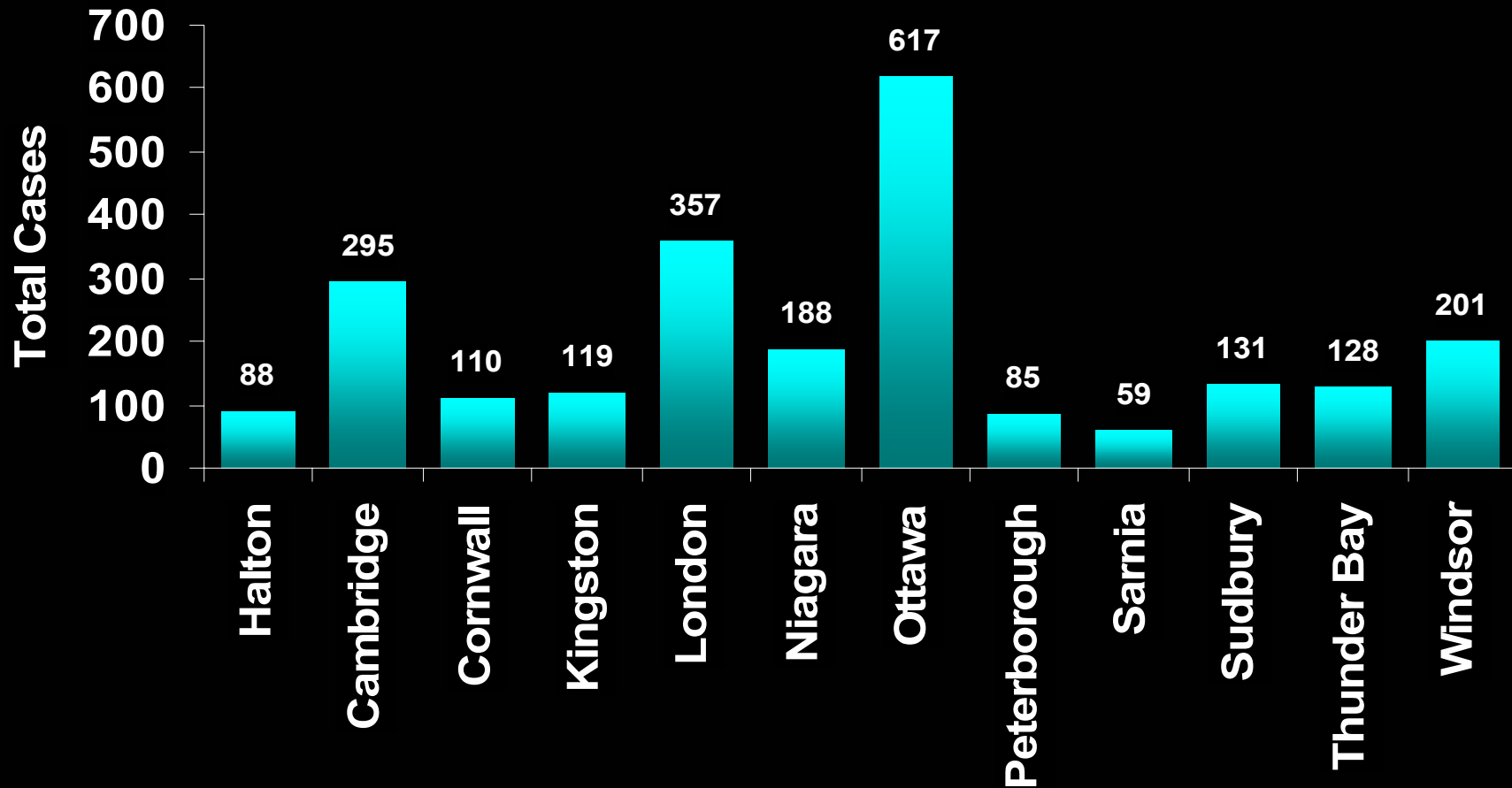
Trauma Recruitment by Month

Base Hospital	Dec '05	Jan '06	Feb '06	Mar '06	Apr '06	May '06	June '06	July '06	Aug '06	Sept '06	Oct '06
Cambridge	5	5	4	13	18	9	7	8	6	1	1
Cornwall	-	2	-	3	4	3	1	2	-	1	-
Halton	1	1	2	-	-	-	1	1	-	-	-
Kingston	-	1	4	1	2	3	4	2	2	2	1
London	6	10	19	15	12	15	6	10	12	8	6
Niagara	1	1	1	2	4	2	-	1	1	2	-
Ottawa	42	37	24	9	2	17	13	9	28	5	1
Peterborough	1	4	1	-	-	-	-	1	-	1	-
Sudbury	7	4	2	3	1	2	1	2	1	-	-
Sarnia	1	-	-	1	-	1	-	-	-	-	-
Thunder Bay	1	6	1	3	3	2	-	-	1	-	-
Windsor	1	5	-	-	3	5	2	3	1	3	2

Cardiac Arrest Recruitment by Site

Site	Total Enrolled	Enrolled in Last 2 weeks	Vital Status Unknown	Ems Treatment	CPR Process Measure	PreHosp Forms Complete
Alabama	304	0	34 (11%)	123 (40%)	0	248 (82%)
Dallas	1194	141	332 (28%)	748 (63%)	0	1145 (96%)
Iowa	410	1	44 (11%)	181 (44%)	2	402 (98%)
Milwaukee	582	49	21 (4%)	520 (89%)	0	554 (95%)
Ottawa	2037	33	196 (10%)	1289 (63%)	52	724 (36%)
Pittsburgh	1036	41	134 (13%)	463 (45%)	91	999 (96%)
Portland	701	16	184 (26%)	434 (62%)	18	396 (56%)
Seattle/KC	1899	64	155 (8%)	1011 (53%)	340	1765 (93%)
Toronto	1823	241	0 (0%)	1016 (56%)	22	1823 (100%)
Vancouver	1941	66	343 (18%)	1297 (67%)	512	1628 (84%)
San Diego	0	0	0	0	0	0
Total	11927	652	1443 (12%)	7082 (59%)	1037	1628 (84%)

Cardiac Arrest Recruitment by OPALS Site (N=2382)



Cardiac Arrest Recruitment by Month

Base Hospital	Dec '05	Jan '06	Feb '06	Mar '06	Apr '06	May '06	June '06	July '06	Aug '06	Sept '06	Oct '06
Cambridge	38	43	43	36	27	21	32	24	31	-	-
Cornwall	-	20	15	14	20	19	19	3	-	-	-
Halton	19	20	9	11	15	14	-	-	-	-	-
Kingston	19	11	11	12	11	19	16	9	2	8	-
London	27	48	36	42	30	33	38	22	34	34	13
Niagara	34	13	17	24	14	31	14	17	13	11	-
Ottawa	72	68	62	67	62	62	61	55	65	43	-
Peterborough	12	7	13	13	11	9	6	5	8	1	-
Sarnia	9	8	7	7	6	7	6	5	4	-	-
Sudbury	14	24	14	18	15	9	16	15	6	-	-
Thunder Bay	13	8	13	10	16	14	9	11	8	13	13
Windsor	21	26	28	16	22	27	21	22	16	2	-

Reminders

- **Epistry data should be submitted on the 2nd and 4th Thursday of each month.**
- **January deadline – cases must be complete**