

### London Ambulance Service NHS Trust



### The context

Busiest free ambulance service in the world

- Only statutory provider in London
- Part of the National Health Service
- >4,000 calls a day
- Over 900 immediately life threatened calls
- Covering > 620 sq miles



### LAS Operational Structure







### LAS - the reality



# Demand management of the critically ill and injured

- Overall demand increasing 3-5% per annum
- Targets get tougher (call connect)
- Hospital handover times increasing impacting on vehicle availability

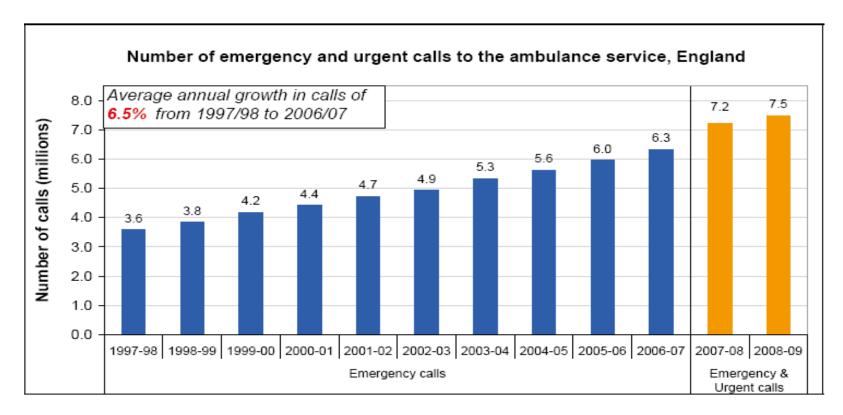


# Demand management of the critically ill and injured

- Darzi review local care where possible; specialised care where appropriate
- Specialist units always the usual suspects (major trauma, stroke, PCI, vascular)
- Generally located in Central London

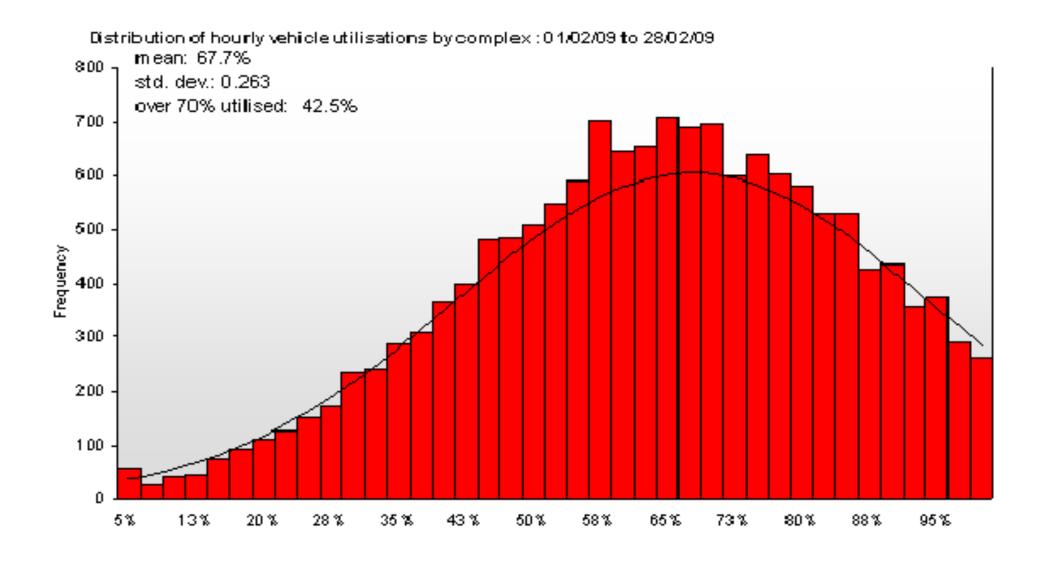


### Increasing demand

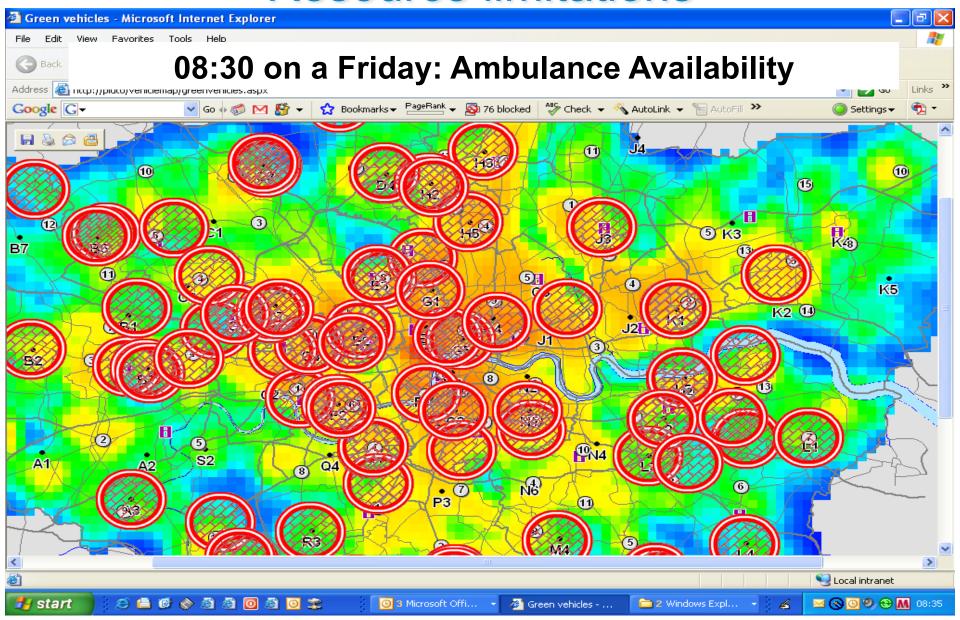




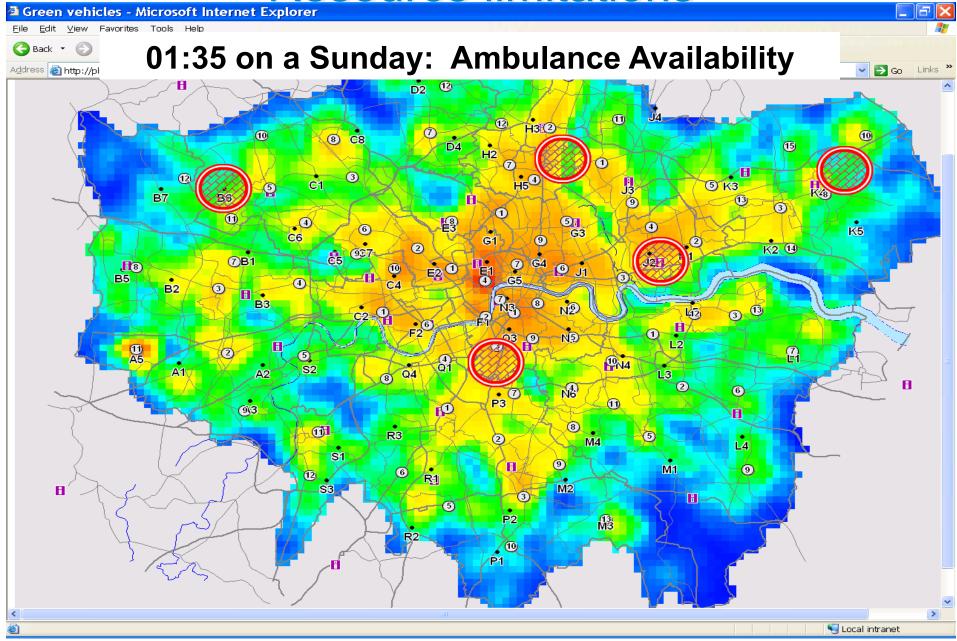
### Utilisation (Dec 2009)



#### Resource limitations



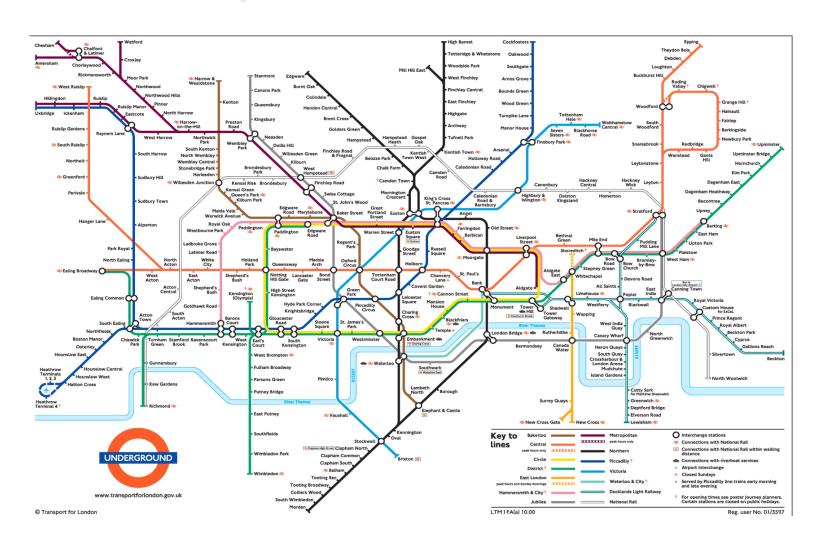
Resource limitations



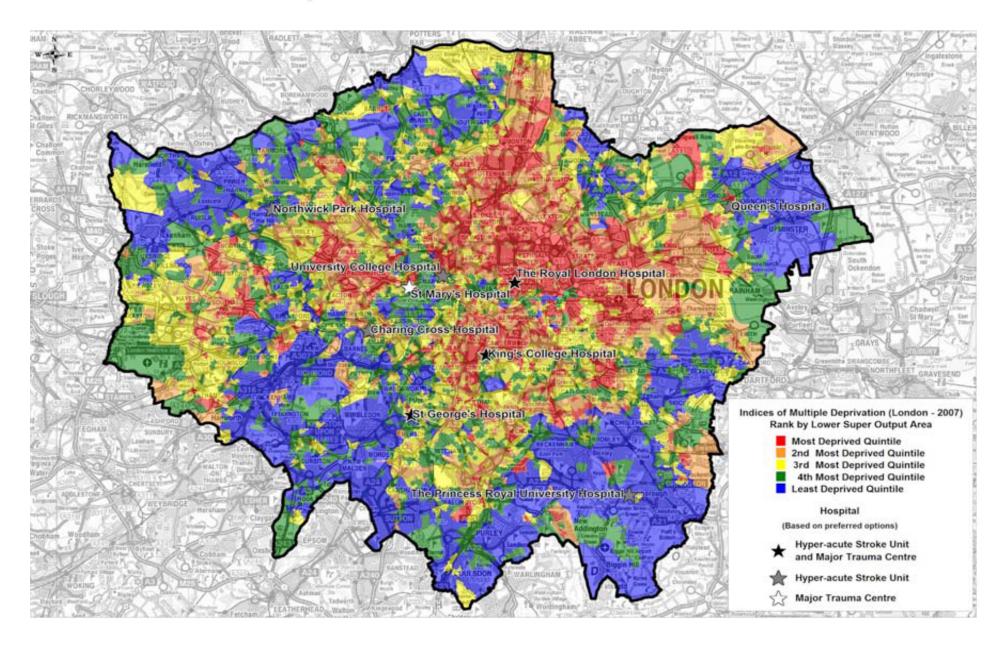
### Changing Healthcare in London



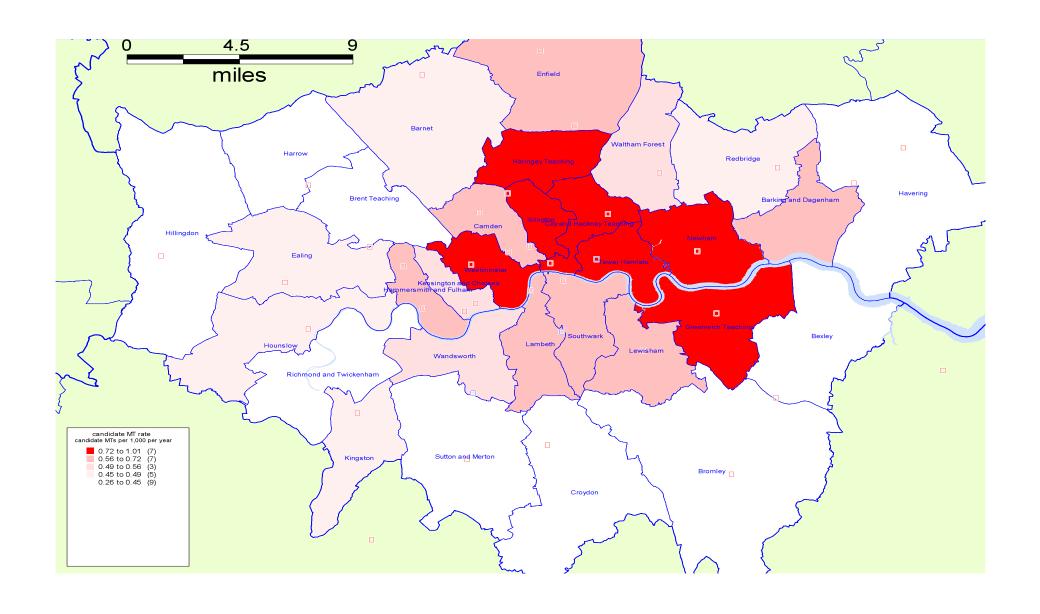
### Inequalities in Health



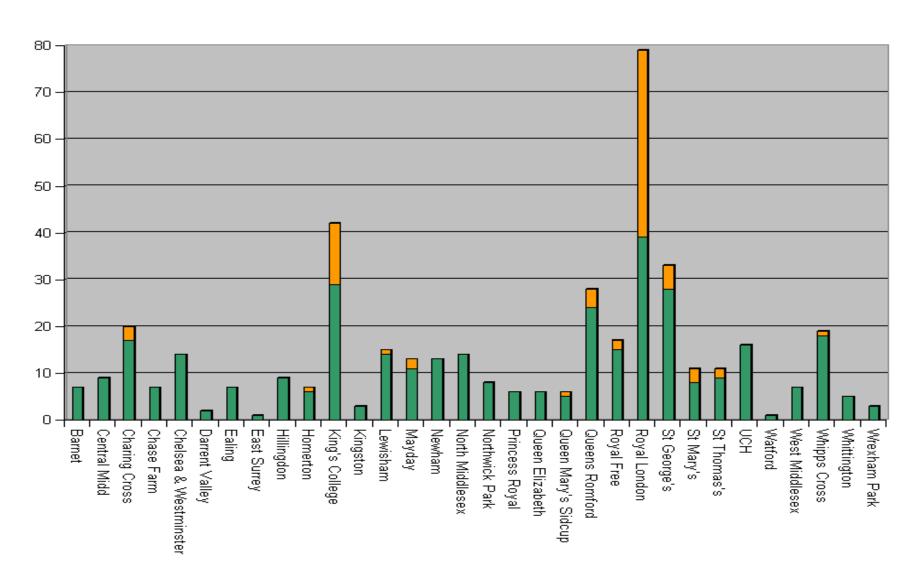
### Inequalities In Health



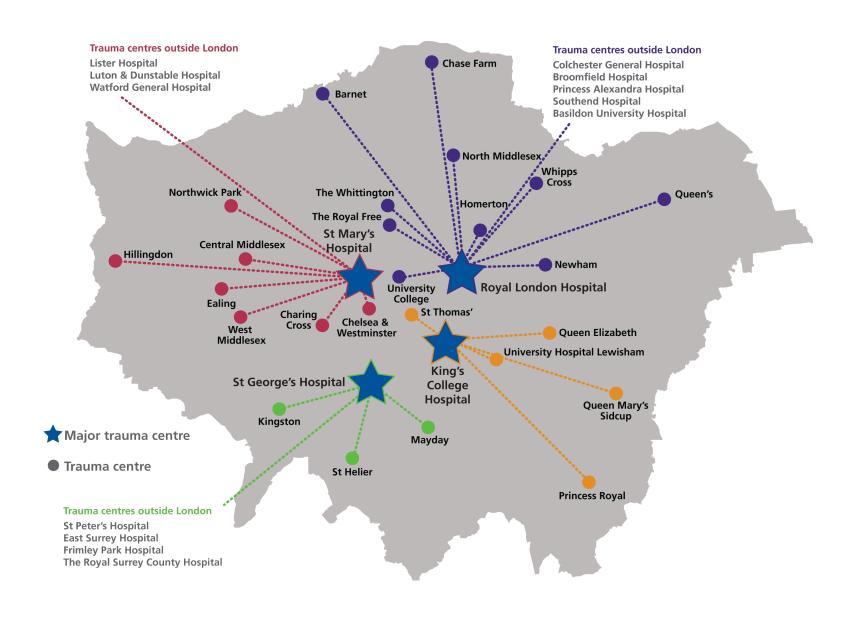
### Incidence of Major Trauma



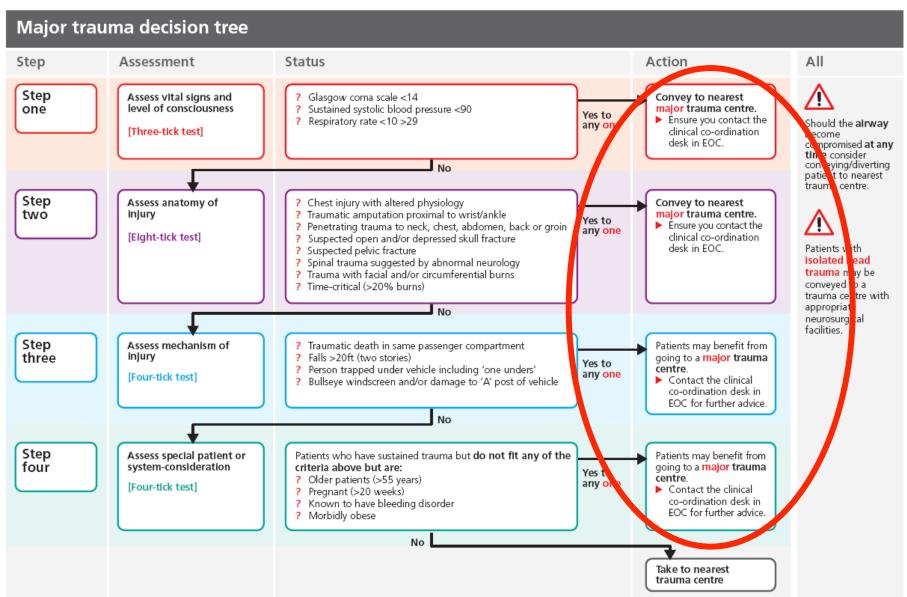
### Current Trauma workload by London HEMS & LAS into London Emergency Departments Between 9<sup>th</sup> – 29<sup>th</sup> March 2009



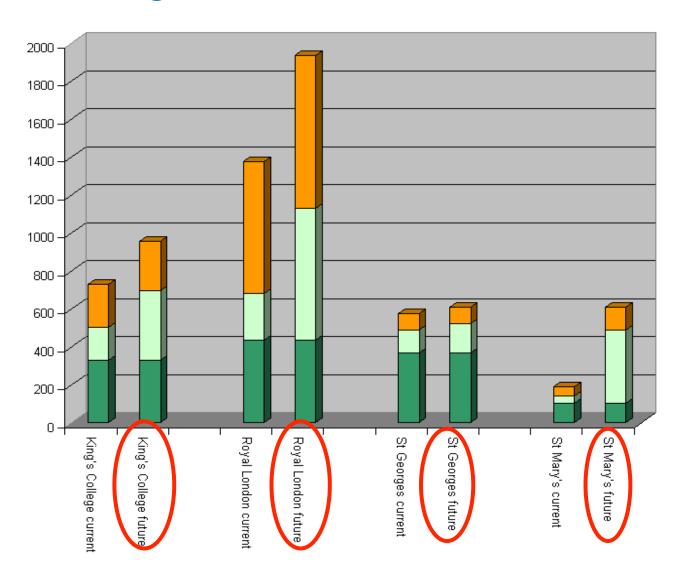
### Trauma: four networks (2010)







## Current and predicted annual trauma workload by all London HEMS & LAS into Major Trauma Centres according to current flow



■ HEMS
■ LAS MTC workload
■ LAS TC workload

## Demand management of the critically ill and injured

#### The Issues

- How do we manage increasing emergency demand?
- Can we manage capacity issues in EDs?
- What's the role of information?



### Stakeholder feedback

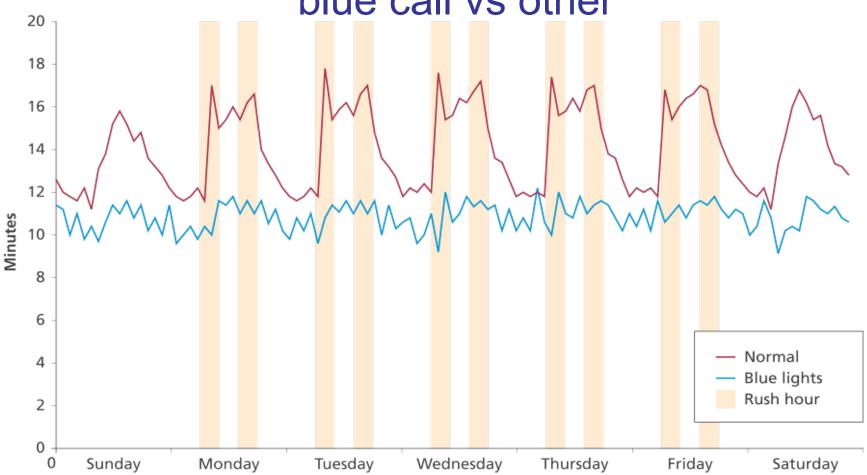
"Multiple blue light calls close together impact on patient safety and care" London EM Consultants

"We can manage multiple trolley patients in close succession but multiple blue calls close together affects patient care & delays turn around of crews as we don't have the staff or space / trolleys to receive them all" London EM Matrons





Average journey times in ambulances 2005-08 blue call vs other

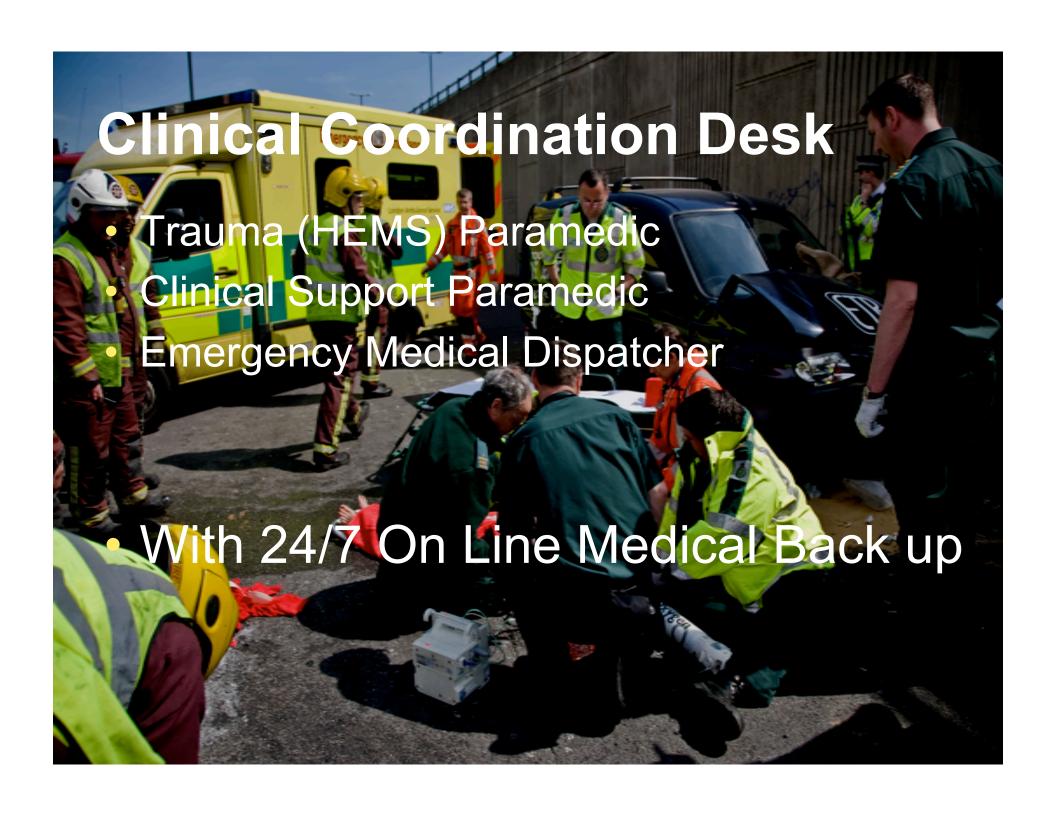


- Shorter journeys than to MTCs
- Rush hour variation for blue light less marked than for normal journeys

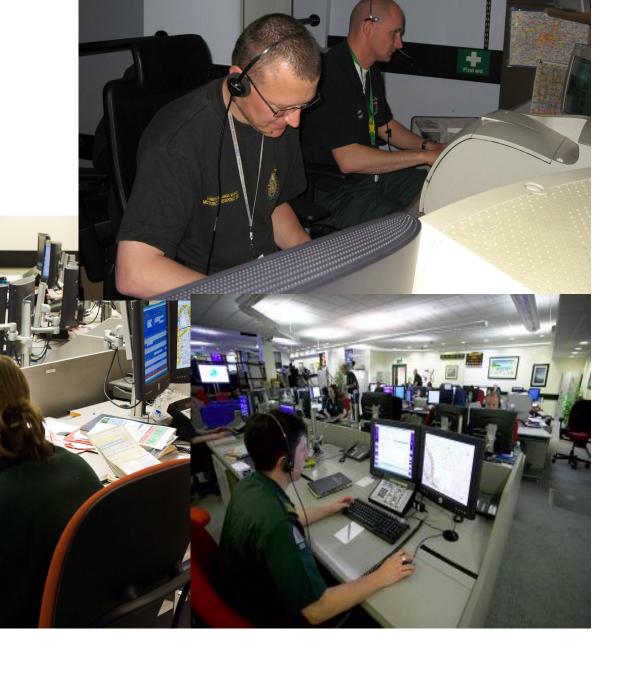
### Clinical Coordination Desk: a solution?

Build on existing Paramedic Support Desk to develop a real time Clinical Coordination function to monitor the incidence and flows of patients requiring specialist services





### Clinical Coordination Desk



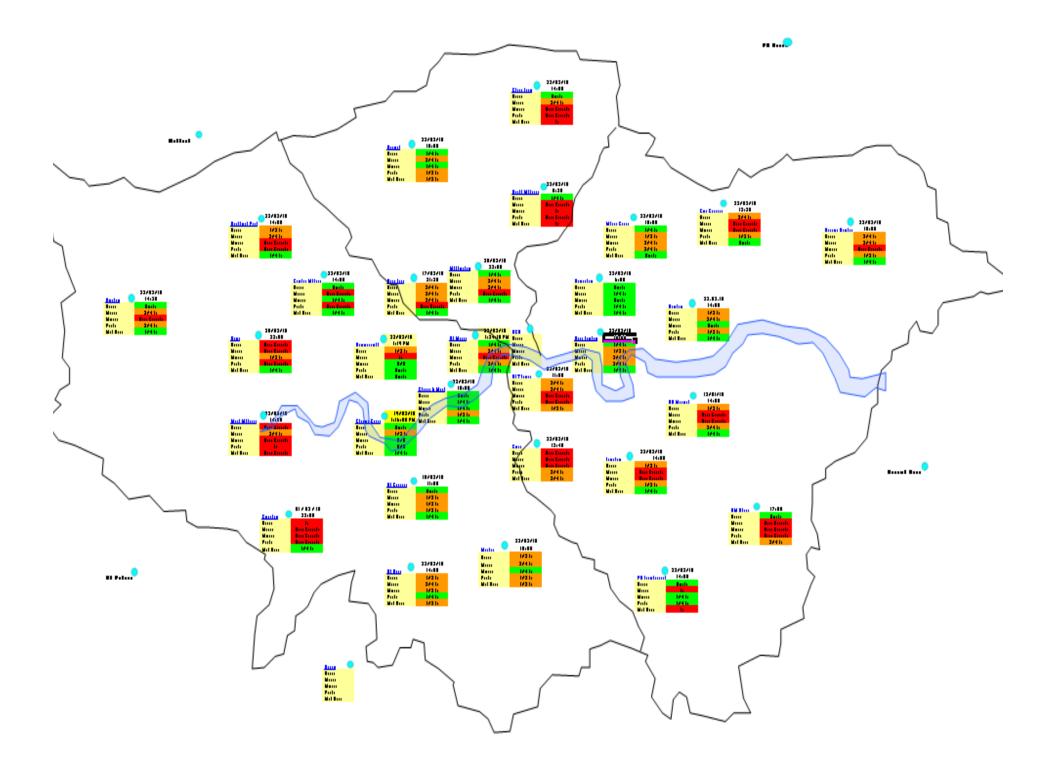
### **Not Just Trauma**

- Stroke
- Maternity
- Paediatrics
- Cardiac

Continuing to provide clinical advice to ambulance crews and supporting transfers







Clear Map TODAY 22/02/2010 14:52 A & E Planned Staffing **UPDATE** Levels Nurses Doctors Hospital Bed Availabilty Has elective Predicted Predicted General Cardiac Notes:-Number surgery Resus of DTA's Hospitals Waiting Area Date Time Majors Minors Paeds Waiting time Comments Room been Unplaced for Dr? cancelled? Central Middle 17/02/10 18:00 0 Empty 3/4 Full 1/2 Full 1/2 Full 1/2 Full 3 hrs 30 mins 0 12 11 5 ПО MAJORS: 3 Whittington 17/02/10 18:00 1/2 Full 1/2 Full Full Full 1/4 Full patients to be 0 15 15 0 4 None seen, waiting 1 HOURS 30 Over 58 Northwick Par 17/02/10 18:00 15 1/4 Full 10 1/2 Full 3/4 Full 1/2 Full 14 0 apacity MINS Over Lewisham 17/02/10 18:00 13 14 24 3 3/4 Full Full 3/4 Full 1/2 Full 13 15 164 PCS = 2Capacity 2 hour delay Over 16 0 12 King's 17/02/10 18:30 3/4 Full 1/2 Full 19 16 6 6 3/4 Full 3/4 Full due to dept very busy No siderooms, no paeds Newham 17/02/10 19:00 16 3/4 Full 5 13 12 10 1/4 Full 3/4 Full 1/4 Full 2 hours 43 min Capacity cubicle 1 hours 56 Over Over 8 Chelsea & We 8 1/4 Full 0 17/02/10 19:00 1/4 Full Full 15 15 13 13 7A6P No Capacity Capacity minutes 7 wards closed due to Over 14 13 Whipps Cross 17/02/10 19:00 1/2 Full Full 0 Empty 0 0 0 0 0 NA 2hr 21mins apacity D&V Capacity 3 hours 00 15 Chelsea & We 17/02/10 22:00 0 1/2 Full 0 12 12 1 6A8P Empty 1/2 Full Empty 1/2 Full No minutes 2 hours 30 Northwick Par 17/02/10 22:00 15 11 7 3/4 Full 3/4 Full Full Full 1/4 Full 14 14 no response mins

15

3/4 Full

3/4 Full

3

1.5 hours

14

14

11

11

13 3/4 Full

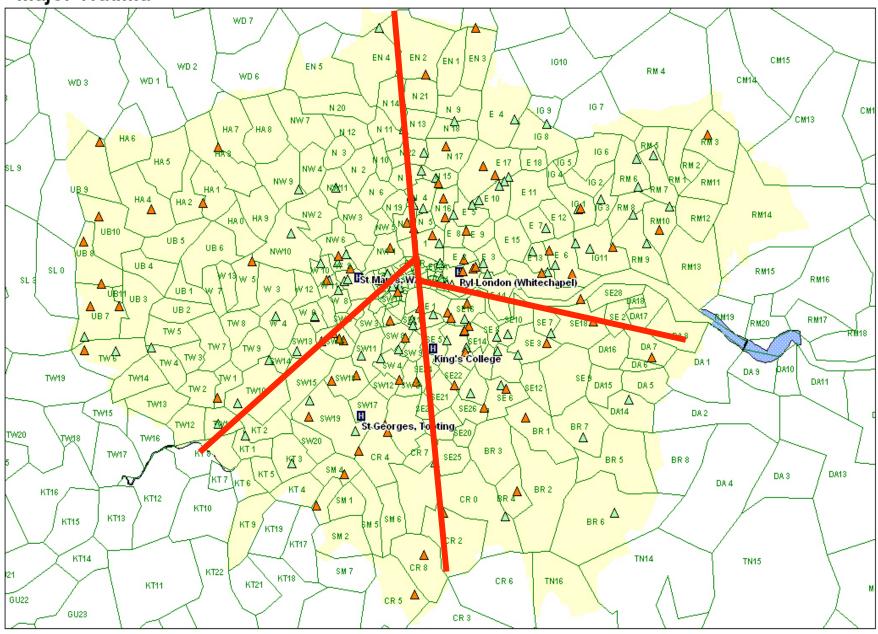
1/2 Full

St George's

17/02/10

22:00

#### **Major Trauma**



### **Clinical Coordination functions:**

- Monitor number of patients conveyed directly to specialist centres
- Support crews in making triage and bypass decisions
- Coordination of out of county ambulances and arrivals of air ambulance services
- Point of contact for Emergency Departments re: Resus capacity
- Provide real-time information about critical care and ED capacity





Thank you

