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- **\*** Accidents & research
- \* Siren limitations
- **\*** Human Vision
- \* Vehicle markings
- \* International livery
- ★ Warning lights



















<b>US Ambulance Accidents 2</b>			
41%	High risk driver*		
22%	Prior accidents		
<b>19%</b>	Speeding		
8%	Suspensions		
1%	DUI		
11%	Other vehicle convictions		
	Pre-hospital Emergency Care July/September 2001		













- Response times are being questioned
- Dispatch procedures faulty

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*"It is 35 times more dangerous per capita to be in an ambulance in America than it is in Australia!"* 

Dr Nadine Levick Safety researcher – Harlem Hospital

















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Age	Pupil Size Day (mm)	Pupil Size Night (mm)	Difference (mm)
20	4.7	8.0	3.3
30	4.3	7.0	2.7
40	3.9	6.0	2.1
50	3.5	5.0	1.5
60	3.1	4.1	1.0
70	2.7	3.2	0.5
80	2.3	2.5	0.2
			Green & Senders















"Anything that lengthens reaction time increases the chance of an unwanted event"

**Stephen Solomon** 



DEBLERKY	
	Krovkov Effect
41	Decreases red sensitivity
43	Attenuates orange perception
43	Increases blue response
- 43	Green – yellow unchanged



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"The multicoloured (patterned) ambulance while distinctive, may suffer decreased conspicuity because of the effects of camouflage"

**De Lorenzo & Eilers** 



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EMERICE	
	Micro-nystagmus
	Horizontal scanning pattern of eye
	Vertical or slanted lines disrupt
	and slow the recognition of shape
	<u> </u>





















































