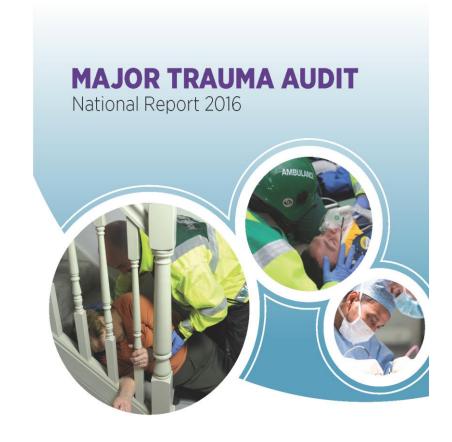




MAJOR TRAUMA AUDIT NATIONAL REPORT 2016

National Office of Clinical Audit MTA Major Trauma



PRESENTED BY:
DR CONOR DEASY,
NATIONAL CLINICAL LEAD



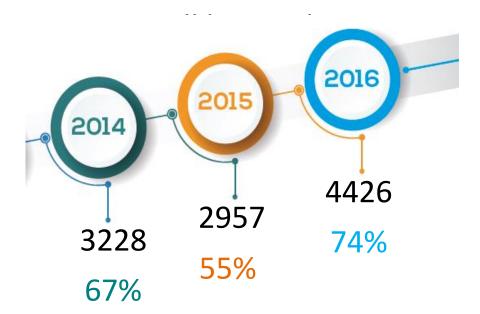


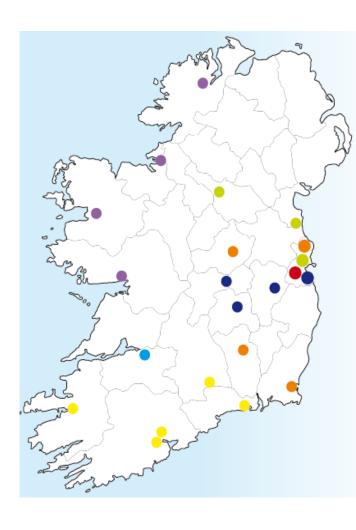


Established in Ireland in 2013

2014-22 hospitals

2015- 24 hospitals





Data accreditation 96%

















Who are major trauma patients?

Those suffering life threatening or life changing injury.





The changing face of major trauma









Major Trauma in the 90s

- Median age 36.1 yrs
- 0-24yrs = 40%
- 60% RTA
- 5% 'low falls'



Major Trauma now

- Median age 59 yrs
- >65 yrs = 40%
- 18% RTA
- 51% 'low falls'





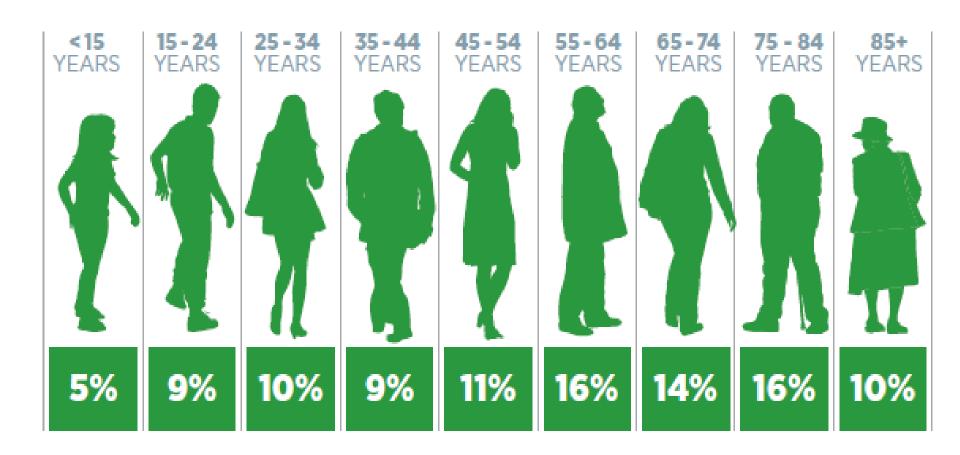






FIGURE 5: GENDER BREAKDOWN OF MAJOR TRAUMA PATIENTS BY AGE BAND (N=4,426)

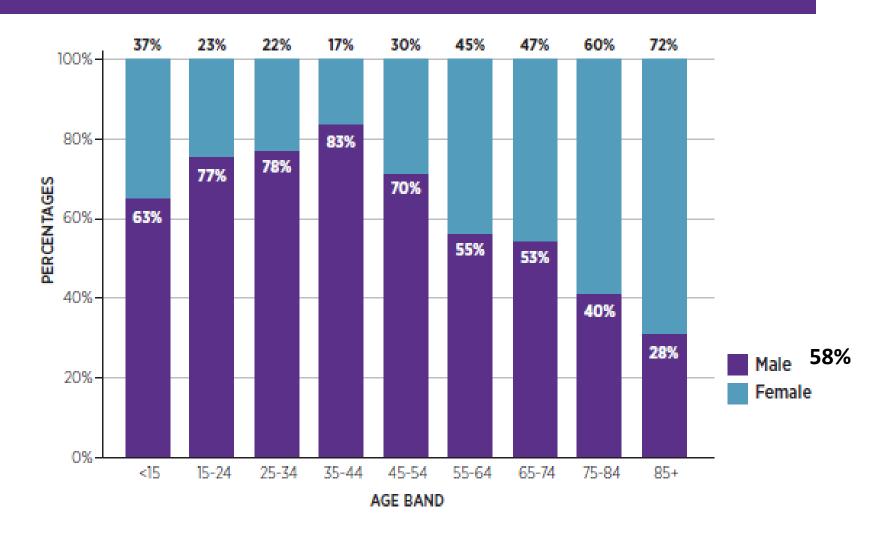
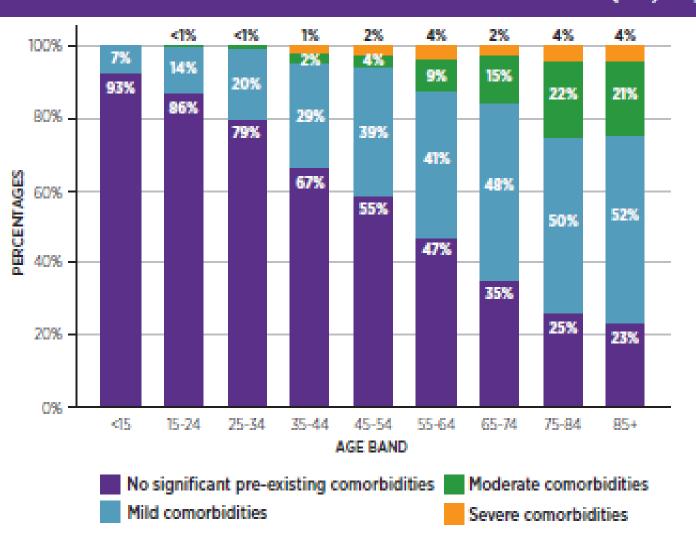






FIGURE 6A: CO-MORBIDITIES OF MAJOR TRAUMA PATIENTS BY AGE BAND (n=4,400) 1*



















How were they injured?



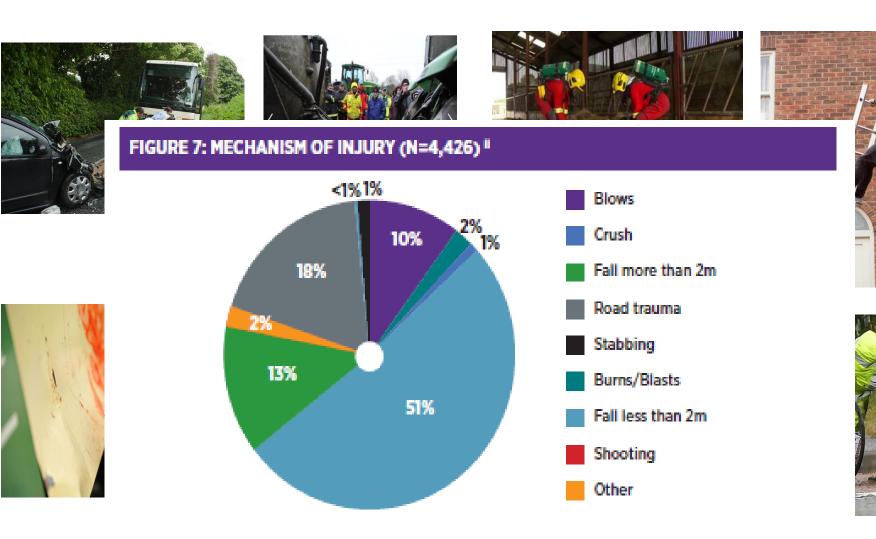
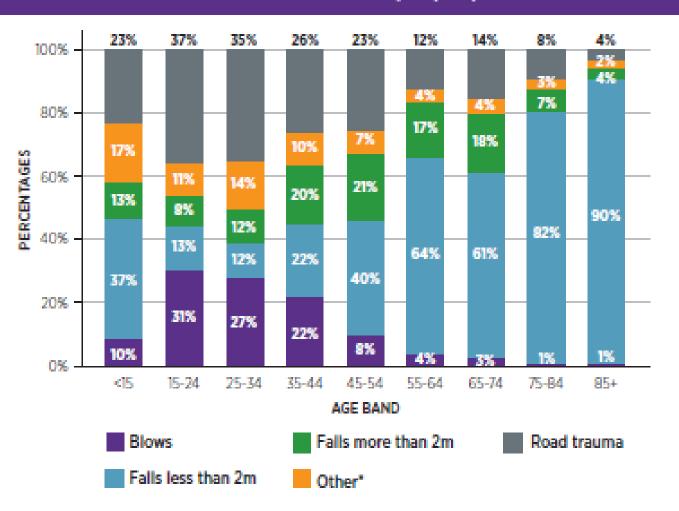






FIGURE 7A: MECHANISM OF INJURY BY AGE BAND (N=4,426) II







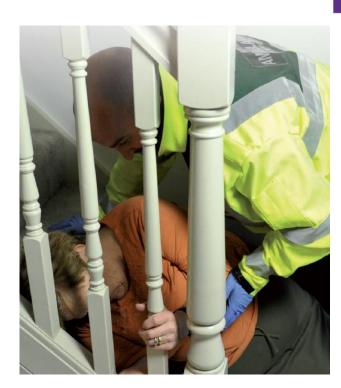
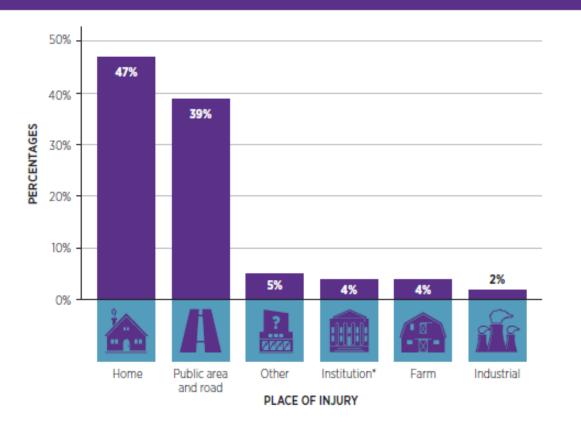
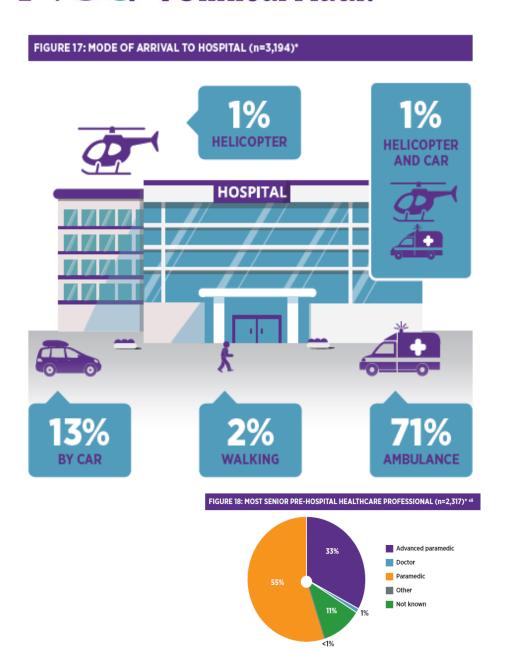


FIGURE 10: PLACE OF INJURY (N=4,426) N



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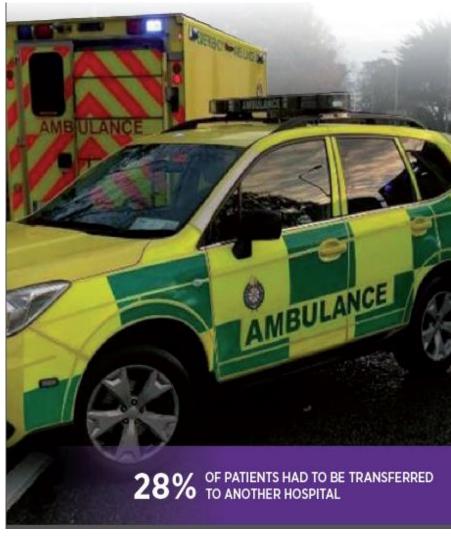
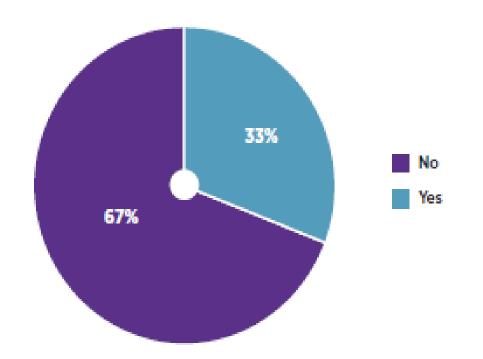








FIGURE 30: TIME TO CT SCAN WITHIN ONE HOUR (n=251)*







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INJURIES SUSTAINED

FIGURE 8: INJURIES SUSTAINED BY BODY REGION (N=6,524)

All injures1 recorded: 6,524

HEAD

All head injuries: 1,161 (18%)
Severe head injuries: 1,022 (88%)
Isolated² severe head injuries:

Severe head injuries and other associated injuries³: 452 (44%)

FACE

All face injuries: 583 (9%) Severe face injuries: 8 (1%)

Isolated severe face injuries: 0

Severe face injuries and other associated injuries: 8 (100%)

LIMB

806 (79%)

1,293 (20%)

injuries: 917 (71%) Isolated severe chest and

injuries: 593 (65%)

9%

All limb injuries: 1,652 (25%)
Severe limb injuries: 1,016 (62%)
Isolated severe limb injuries:

Severe limb injuries and other associated injuries: 210 (21%)

CHEST AND ABDOMINAL

All chest and abdominal injuries:

abdominal injuries: 324 (35%)

Severe chest and abdominal

injuries and other associated

Severe chest and abdominal 209

3%

18%

570 (56%)

16%

SPINAL

All spinal injuries: 1,021 (16%) Severe spinal injuries: 512 (50%)

Isolated severe spinal injuries: 319 (62%)

Severe spinal injuries and other associated injuries: 193 (38%)

PELVIC

All pelvic injuries: 591 (9%)

Severe pelvic injuries: 79 (13%) Isolated severe pelvic injuries: 21 (27%)

9%

Severe pelvic injuries and other associated injuries: 58 (73%)

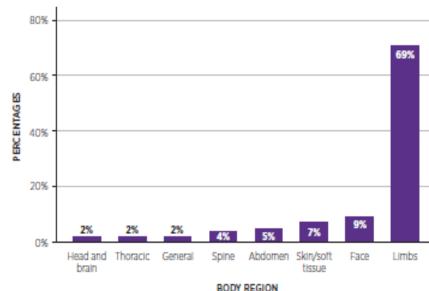
OTHER

All other injuries: 223 (3%)

Severe other injuries: 69 (31%) Isolated severe other injuries: 57 (83%)

Severe other injuries and other associated injuries: 12 (17%)

FIGURE 25: SURGICAL INTERVENTION BY BODY REGION (n=1,219)*













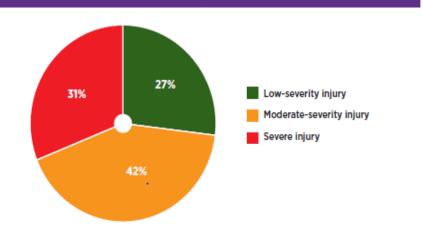
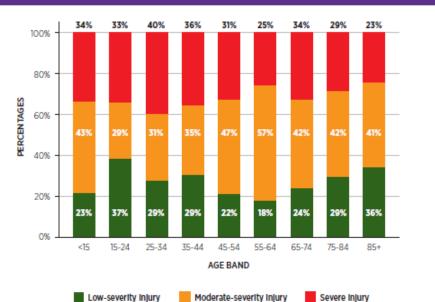
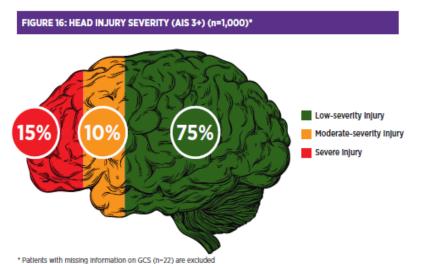
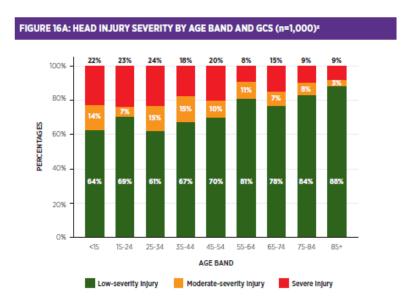


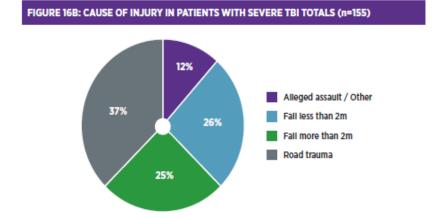
FIGURE 9A: INJURY SEVERITY SCORE (ISS) BY AGE BAND (N=4,426) "

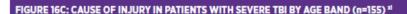


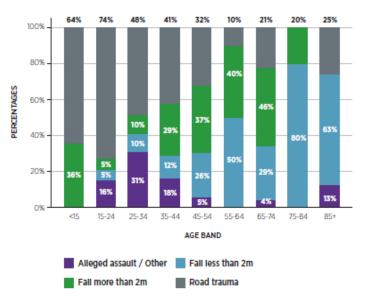












45% of patients with severe TBI not treated at Neurosurgical Centre 11% of patients with severe TBI brought directly to a Neurosurgical Centre





TABLE 7: ICU LOS

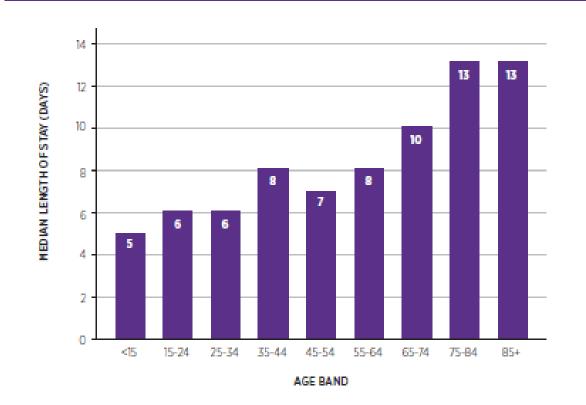
				ICU LOS FOR MTA PATIENTS WITH SEVERE TBI
	N	758	478	120
	Median (IQR)	3 (1-8)	4 (2-9)	5 (1-12)
_	ICU bed days	4,843	3,713	911

TABLE 8: HOSPITAL LOS FOR MAJOR TRAUMA PATIENTS

LOS for all major trauma patients Median (IQR) 9 (5-17)

LOS for major trauma patients if ISS>15 Median (IQR) 10 (5-22)

FIGURE 31: HOSPITAL LENGTH OF STAY BY AGE BAND (N=4,426)

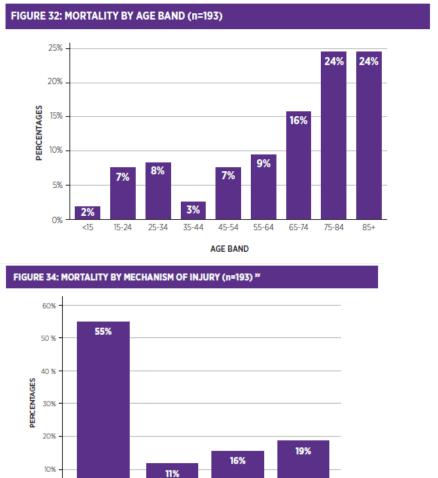












Older patients are more likely to die and suffer higher levels of disability than younger major trauma patients with a similar injury severity score (ISS).

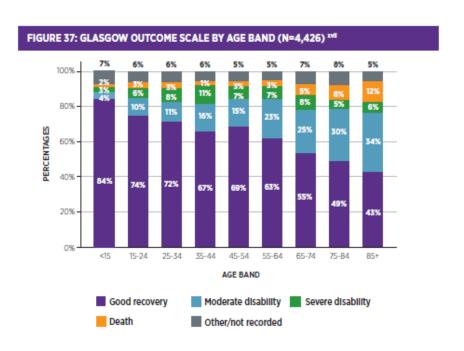
Falls less than 2m

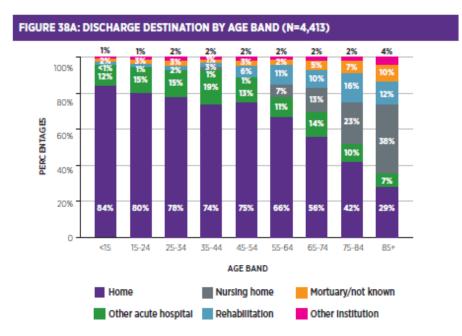
Falls more than 2m

Road trauma







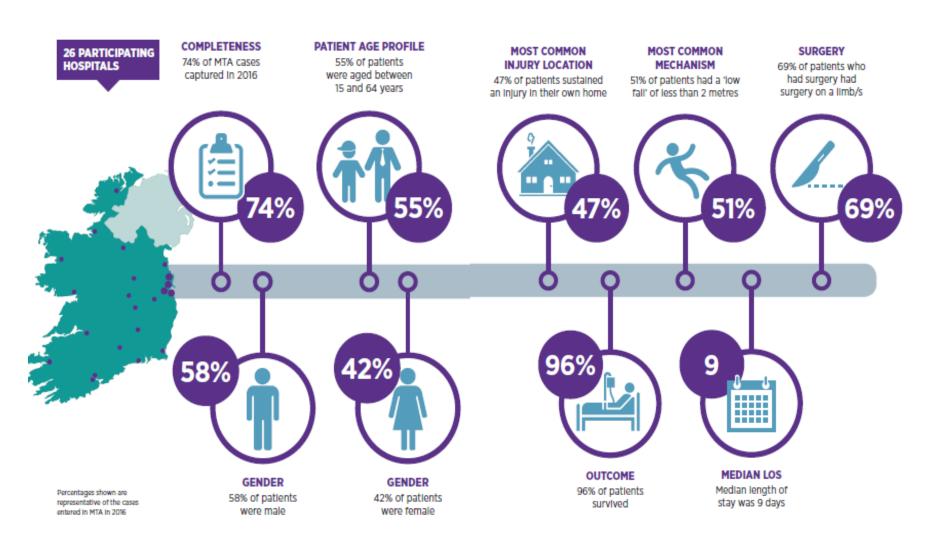


Only 62% of major trauma patients were discharged directly home. Older patients are less likely to be discharged home and more likely to be discharged to rehabilitation or long-term care compared to younger patients.





REPORT HIGHLIGHTS 2016

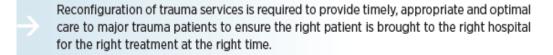


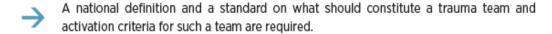




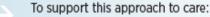
KEY RECOMMENDATIONS

INFORMING TRAUMA POLICY:



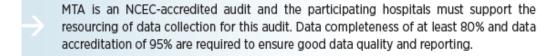


Pre-hospital carers and emergency medicine professionals should exercise a high level of suspicion of major trauma in older patients with low-energy mechanism injuries.



- Clinical assessment and triage tools should be adapted to suitably assess older patients.
- Education programmes for pre-hospital carers and emergency medicine professionals should include care for the older patient with low-energy mechanism injuries.

DATA QUALITY:



 NOCA will work with the Healthcare Pricing Office, TARN and hospitals to adjust the annual hospital denominators to reflect accurately the level of completeness of individual hospitals' data.

Functional and quality-of-life measures should be included in the future development of the audit.





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