

Mortality Rates from Stray Energy Burn Bowel Injuries Using Non-AEM Monopolar Laparoscopic Instruments:

| Description | USA Data |
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| Number of monopolar laparoscopic procedures performed in the USA every year: <ul style="list-style-type: none"> 3 million laparoscopic procedures annually in USA⁴ 85% use monopolar electrosurgical energy¹ | 2,550,000 procedures annually |
| Incidence of stray energy burn bowel injuries during laparoscopic surgery: <ul style="list-style-type: none"> (1.3 bowel injuries in 1000 procedures)*(50% are due to thermal injury)²⁻⁵ | 6.5 injuries per 10,000 procedures |
| Incidence of death from thermal bowel injuries during laparoscopic surgery: <ul style="list-style-type: none"> Intestinal perforation manifests into fecal peritonitis, with a mortality rate of 25%⁶ (6.5 injuries per 10,000 procedures)*(25%) = 1.63 deaths per 10,000 procedures | 1.6 deaths per 10,000 procedures |
| Number of preventable monopolar laparoscopic deaths over a 10 year period: <ul style="list-style-type: none"> (2,550,000 procedures annually)*(0.01625% risk)*(10 years) = 4,144 | 4,144 deaths over 10 years |
| Number of preventable monopolar laparoscopic deaths per year: <ul style="list-style-type: none"> (2,550,000 procedures annually)*(0.01625% risk) = 414 | 400 - 500 deaths per year |
| Number of preventable monopolar laparoscopic deaths per day: <ul style="list-style-type: none"> (2,550,000 procedures annually)*(0.01625% risk) / (365 days) = 1.14 | 1 - 2 deaths per day |

Complication Rates from All Stray Energy Burn Injuries Using Non-AEM Monopolar Laparoscopic Instruments:

| Description | USA Data |
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| Preventable stray energy burns occur 0.6 – 5 per 1,000 procedures⁷ | 0.6 – 5 stray energy burn injuries per 1,000 procedures |
| Number of preventable monopolar laparoscopic burns over a 10 year period: <ul style="list-style-type: none"> 2.8 stray energy burn injuries in 1000 procedures (average)⁷ (2,550,000 procedures per year)*(2.8 injuries per 1,000 procedures)*(10 years) = 71,400 stray energy burn injuries in 10 years | 71,400 injuries over 10 years |
| Number of minutes between preventable monopolar laparoscopic burns: <ul style="list-style-type: none"> (2,550,000 procedures)*(2.8 injuries/ 1,000 procedures)/(365 days)*(24 hours/day)*(60 min/hour) = every 73 minutes a patient stray energy burn occurs | Every 90 minutes a patient is burned |

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