

The costs of occupational injuries related to fishing vessel accidents in Quebec

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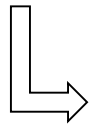


Plan

1. What is included in the calculation of the costs of occupational injuries?
2. What are the costs of occupational injuries related to fishing vessel accidents in Quebec (2005–2015)?
3. What are the characteristics of the costliest injuries (type of accident, type of injury, fleets, etc.)?

The costs of occupational injuries

- Occupational injuries are costly for...
 - Employers
 - Workers
 - Community
- According to studies published up until now, these costs represent 1% to 6% of GDP.



\$6.3 billion in Quebec (2016)

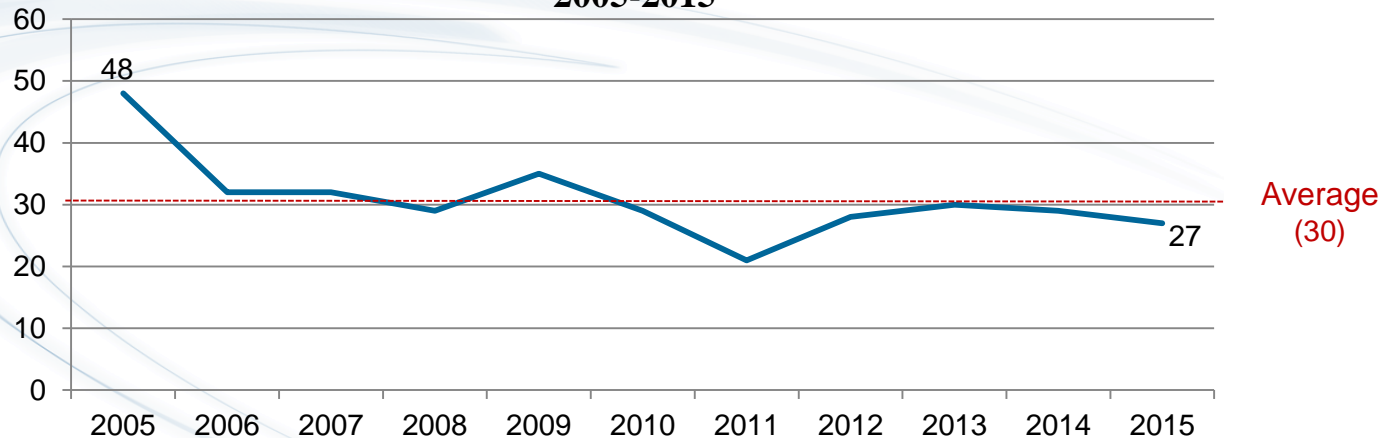
Which costs?

- Medical costs
- Salary costs and productivity losses
- Administrative costs
- Human costs

Compensated injuries 2005–2015

- 355 injuries (approx. 30 per year)

Number of occupational injuries related to a fishing vessel accident in Quebec,
2005-2015



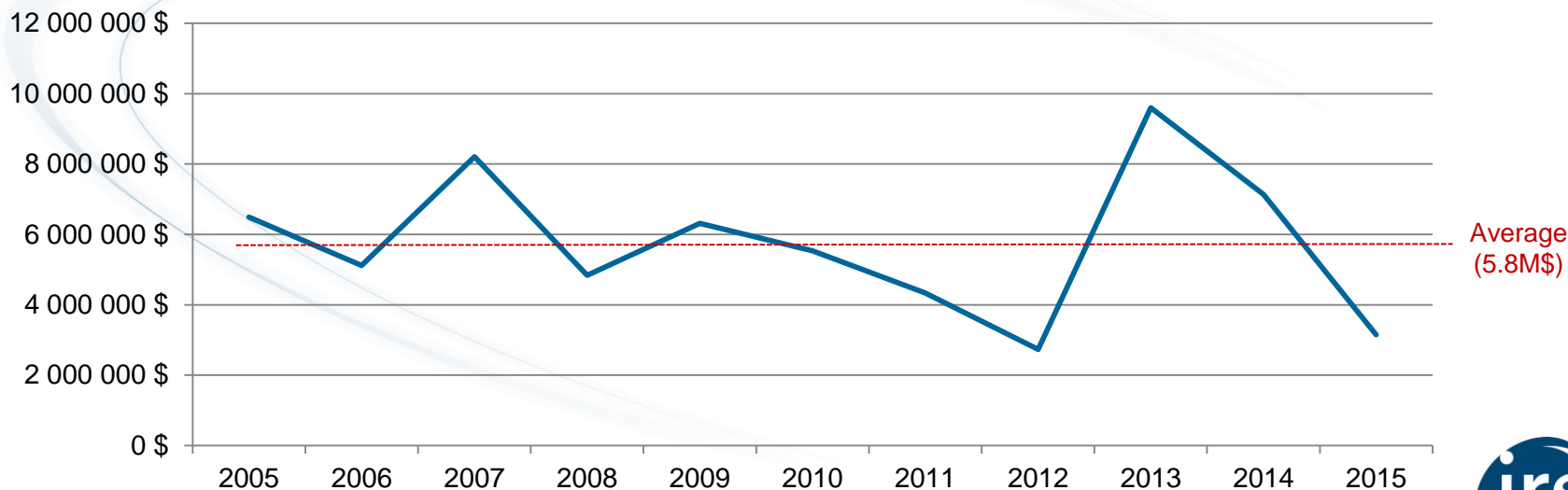
- 6 deaths
 - 4/6 due to drowning

Costs of injuries 2005–2015

- Total cost: \$63.5M (\$2017)
- Year average: \$5.8M

6 deaths
↓
31% of costs

Evolution of the total costs of occupational injuries related to fishing vessel accidents, Quebec, 2005 -2015 (\$2017)



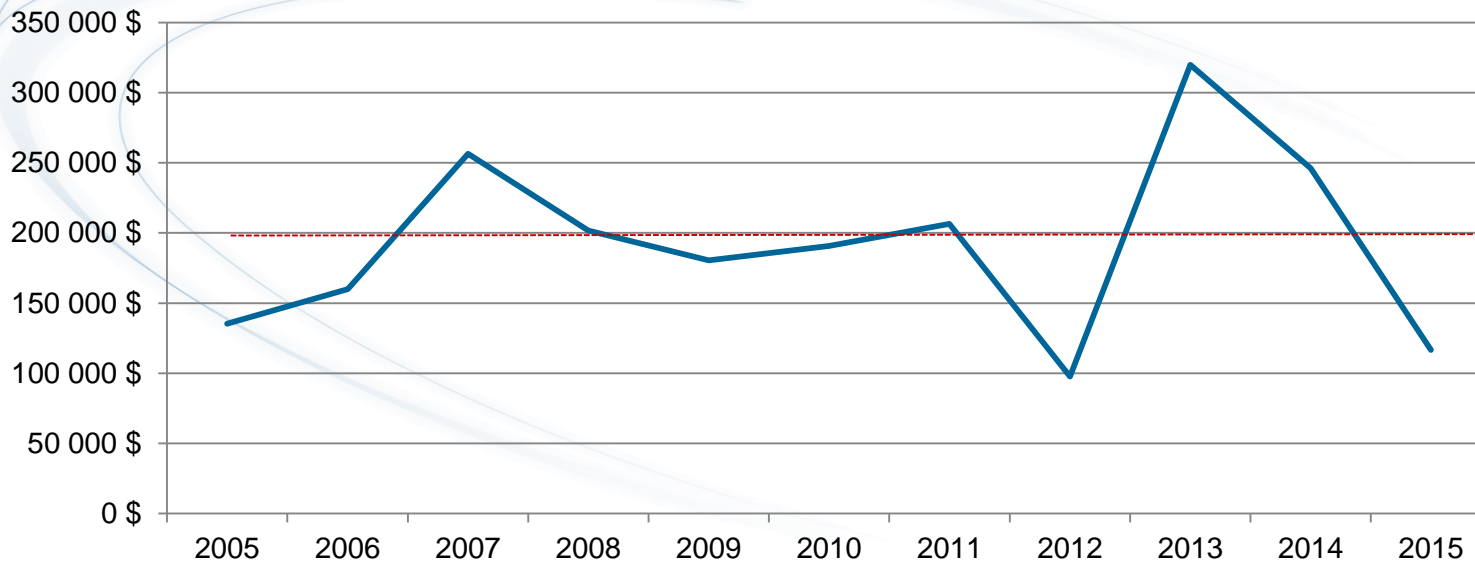
Costs of injuries 2005–2015

- Average cost per injury: \$189,400



All industries
combined in Quebec:
\$52,000 !!!

Evolution of the average cost per occupational injury related to fishing vessel accidents, Québec, 2005 -2015 (\$2017)



Average
(\$189,400)

Age group

- 45-year old and older: 68% of total costs
- The average cost per case increases with age

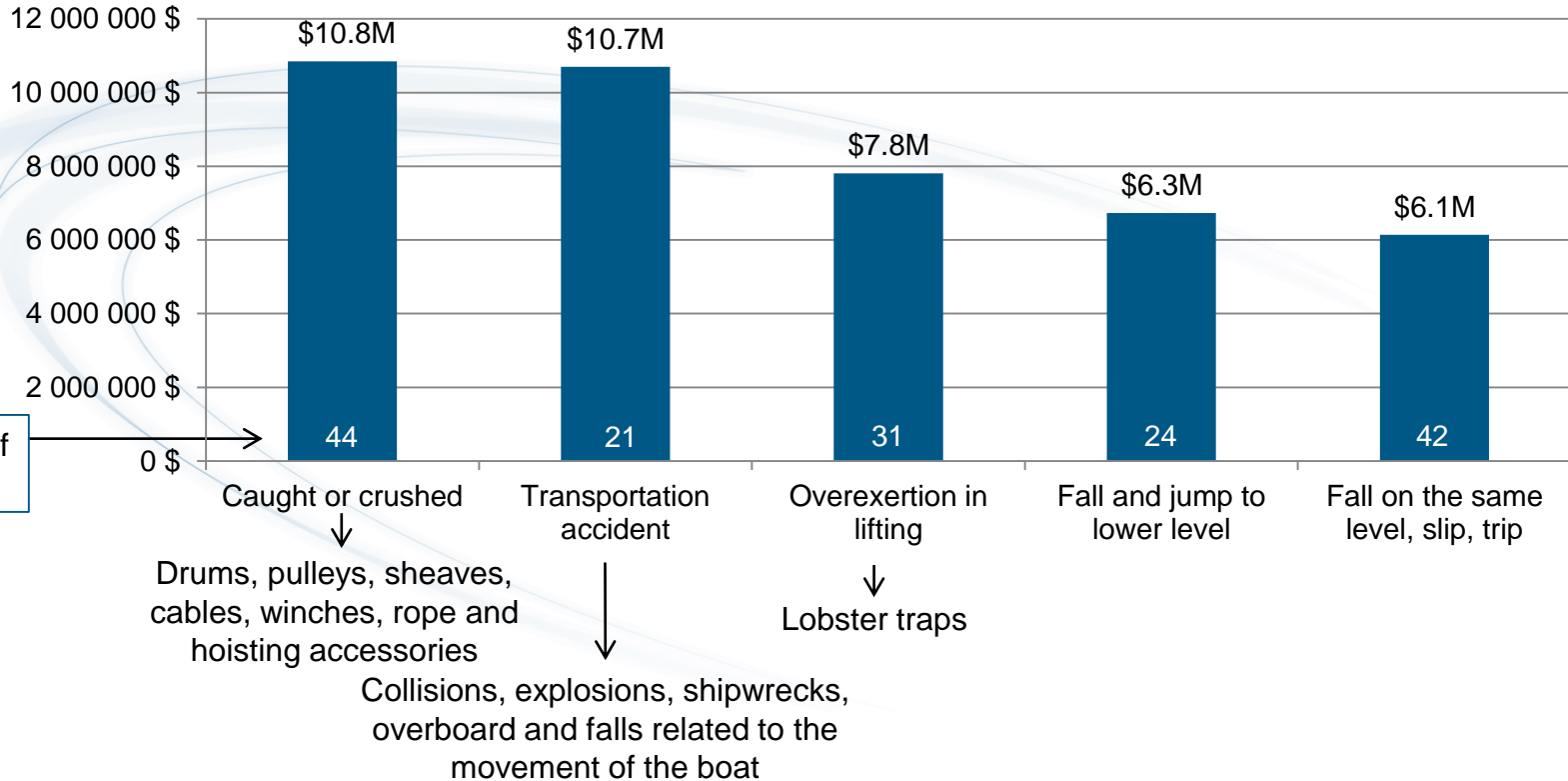
The costs of occupational injuries related to fishing vessel accidents by age group, Quebec, 2005-2015 (\$2017)

Age group	Number of injuries	Number of deaths	Average cost per case	Total costs
15-19	9	1	\$577,200	\$5,194,700
20-24	17	0	\$72,300	\$1,228,700
25-44	148	0	\$92,700	\$13,725,200
45-54	93	2	\$228,500	\$21,250,500
55+	68	3	\$324,300	\$22,051,200
Total	335	6	\$189,400	\$63,450,300

Note: Amounts rounded to the nearest hundred.

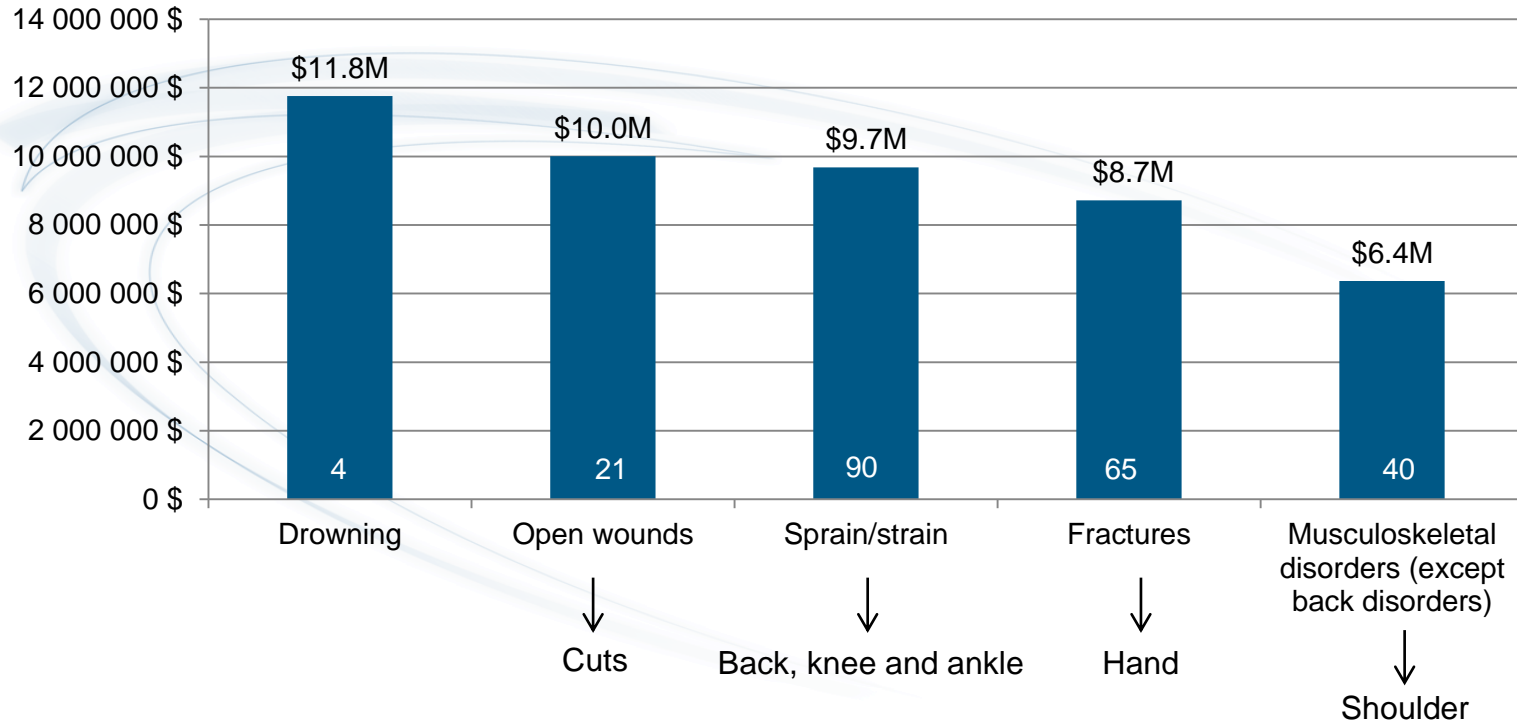
Event or exposure

The costs of occupational injuries related to fishing vessel accidents by event or exposure (five costliest), Quebec, 2005–2015 (\$2017)



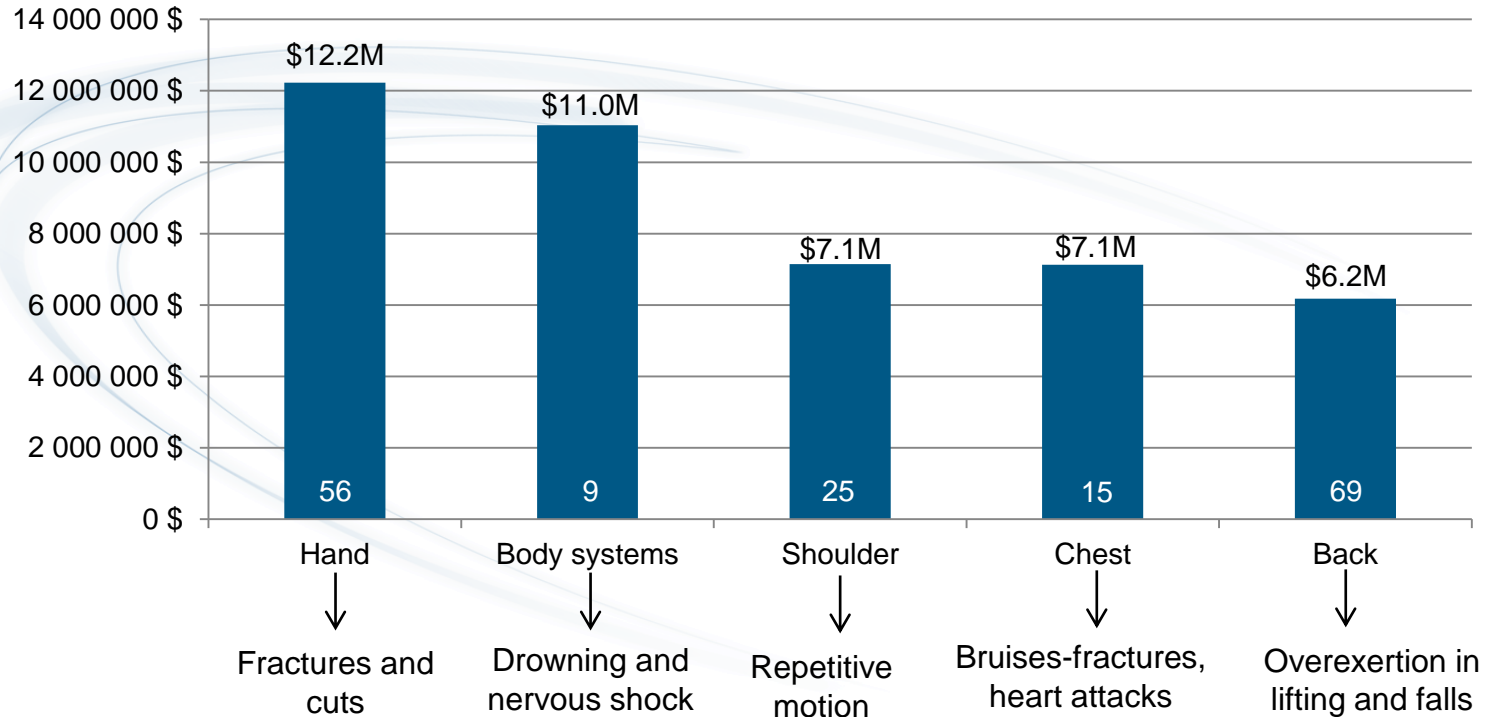
Nature of the injury

The costs of occupational injuries related to fishing vessel accidents, by the nature of the injury (five costliest), Quebec, 2005–2015 (\$2017)



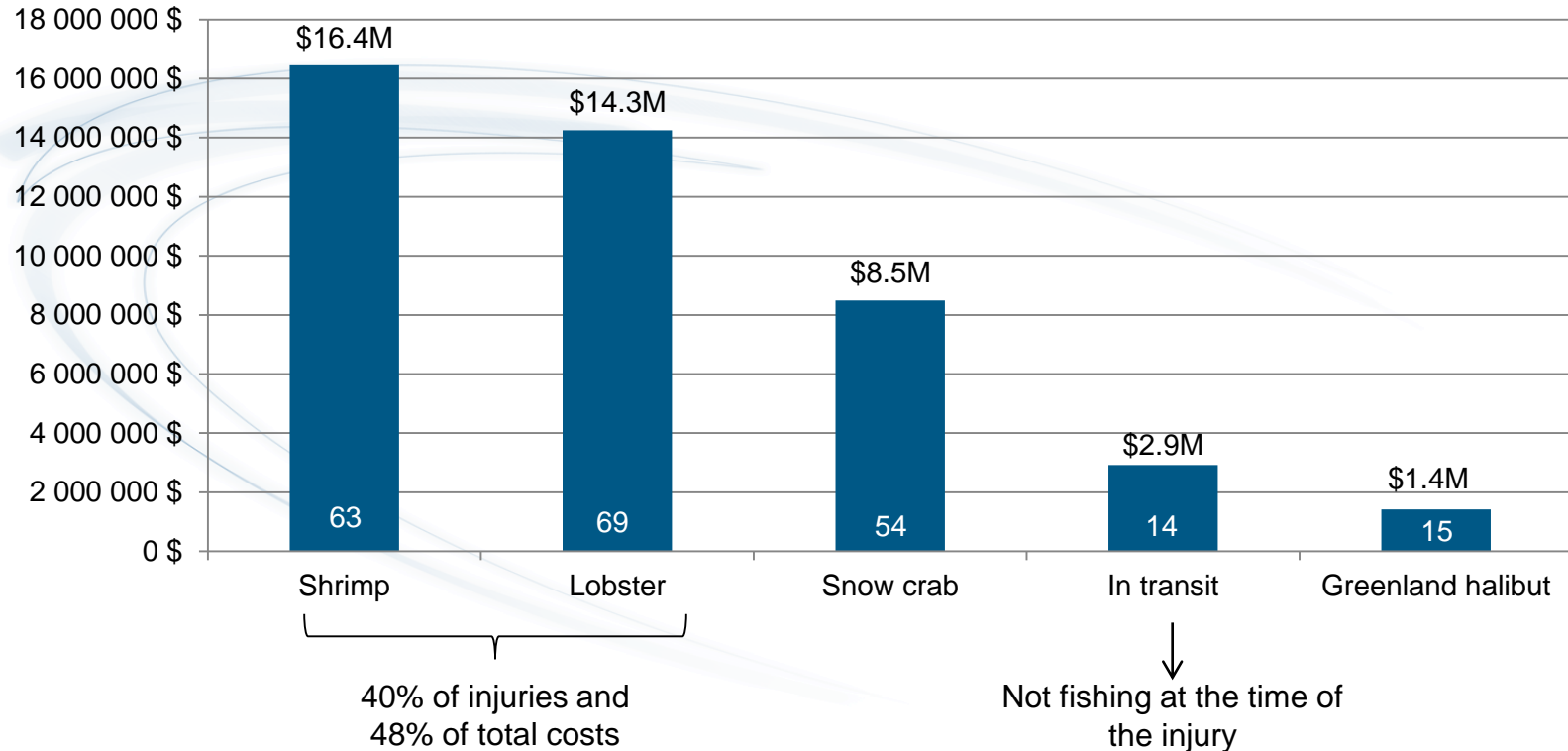
Injured body part

The costs of occupational injuries related to fishing vessel accidents by injured body part (five costliest), Quebec, 2005–2015 (\$2017)



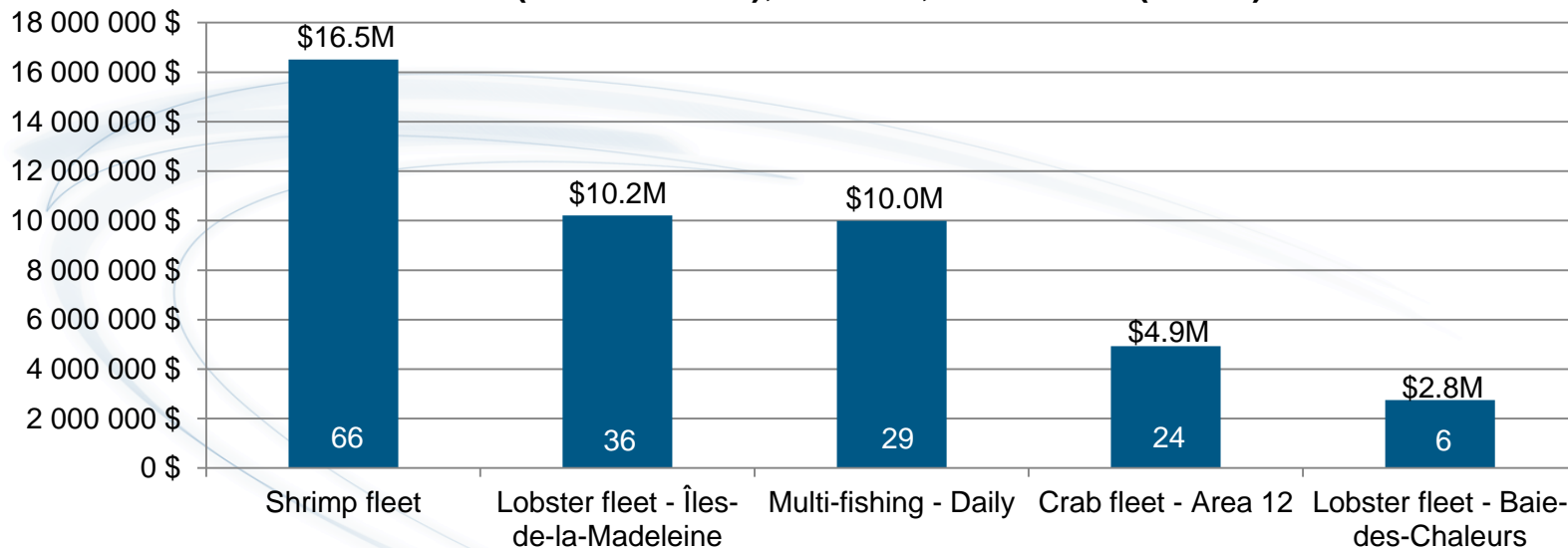
Target species

The costs of occupational injuries related to fishing boat accidents by target species (five costliest), Quebec, 2005–2015 (\$2017)



Fishing fleet

The costs of occupational injuries related to fishing vessel accidents by fishing fleet (five costliest), Quebec, 2005–2015 (\$2017)



% vessels	4%	27%	14%	5%	6%
% injuries	20%	11%	9%	7%	2%
% total costs	26%	16%	16%	8%	4%

Conclusion

- Serious and costly injuries

- \$5.8M per year
- Average cost per case:

\$189,400 (fishing) $\longleftrightarrow^{3.6x}$ **\$52,000** (all industries)

- Characteristics of the costliest injuries

- Fall overboard (drowning), from lower level, at the same level
- Caught or crushed (hand fractures and cuts)
- Overexertion (back sprain when lifting)
- Repetitive motion (shoulder)

Conclusion

- The shrimp fleet seems to be overrepresented in terms of the number of injuries and costs
- **Fishermen and their families bear the largest share of the costs of occupational injuries.**

Thank you!

