

# Chapter 15

## Mind the Gap: Undercollateralization in the Global and Canadian OTCD Markets

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### **ABSTRACT**

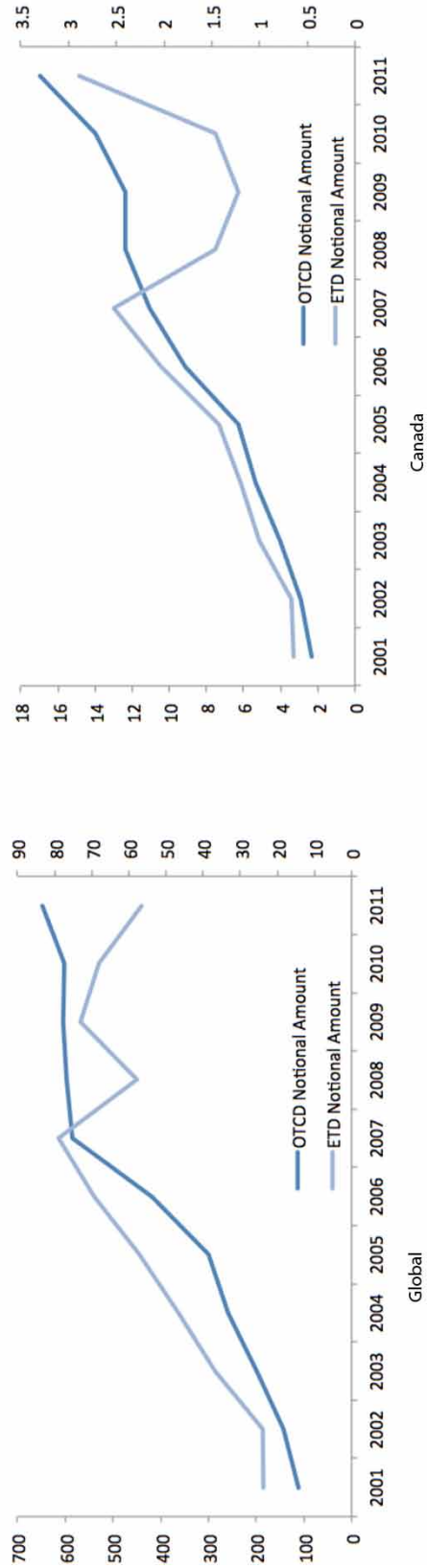
*We provide estimates of the collateral gap in the global and Canadian OTCD markets. Using the latest available data as of December 31 2011, it is estimated that current exposures after netting are \$3.9T globally and \$71B in Canada. The estimated amount of available collateral after correcting for re-hypothecation in each market is \$767B and \$48B, respectively. Thence, the current gap in variation margins stands at \$3.1T globally and at \$23B in Canada. The initial margin that would be required to centrally clear OTCD is estimated at \$4T globally and \$104B in Canada. The rate of collateralization has increased globally, but specially in Canada. In 2001, 92% of global and 72% of Canadian current exposures were undercollateralized; currently, the figures are 80% for global and 30% for Canadian current exposures. The high level of collateralization and the lack of re-hypothecation could make the Canadian market more resilient to systemic shocks. Further, it is likely that the upcoming regulatory reforms will have a more subtle impact on Canadian banks than on banks elsewhere.*

### **INTRODUCTION**

The global Over-the-Counter derivatives (OTCD) market has experienced very rapid growth in recent years; particularly during the first six years of the last decade (see Figure 1). A significant part of this growth was the product of financial deregulation during the late 1990s and early 2000s, which allowed investors to trade customized bilateral contracts that required little or no collateral to guarantee their performance<sup>1</sup>. Exchange traded derivatives (ETD), on the other hand, experienced a more moderate growth due to their more strict and standardized terms, which required firms to fully collateralize their exposures; thus, making them relatively more costly to trade.

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**Figure 1. Notional values of the OTCD and ETD Markets (in USD trillions)**  
 Note: OTCD and ETD amounts are represented in the left and right axis, respectively. Global values were obtained from the Bank for International Settlements (2012a). Canadian figures correspond to the six largest banks (RBC, TD, BMO, CIBC, BNS and NBC). Canadian values from 2007 to 2011 were obtained from the Office of the Superintendent of Financial Institutions (OSFI, 2012). Values from 2001 to 2006 were obtained assuming that the share of these six banks represents on average 2.10% and 2.7% of the global OTCD and ETD market, respectively. This assumption is consistent with the data reported by CMIC (2011) and the average share of the Canadian markets since 2007.



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