GM was highest among bogger operators 0.53 mg/m$^3$ (GSD=0.27) and the least among truck operators 0.29 mg/m$^3$ (GSD=0.37). While for open pit, the highest GM was found among quality controllers 0.39 mg/m$^3$ (GSD=0.18) and the least among in truck operators 0.13 mg/m$^3$ (GSD=0.15). Respiratory symptoms were phlegm (49.1%), Breathlessness (42.9%), cough (37.5%), wheezing (18.8%) and chest tightness (10.7%). Prevalence of airflow obstruction (FEV1/FVC<0.75) was 7.7% among non smoking miners.

**Discussion** Despite the fact that levels of respirable dust exposure were below recommended occupational exposure limits, prevalence of respiratory symptoms was still high among gold miners. There is a need to conduct further studies on quarts.

**Results**

The implementation of targeted MSD prevention strategies will increase communication and decision latitude within core-shack operations.

**Discussion**

The prevalence of musculoskeletal injuries with the Canadian mining industry is of particular concern. The dissemination of this study will be shared with participating members of the Occupational Health Committee, leaders from the trade union and representatives from various operational and administrative areas. The final outcome of this preparative work was the model guiding this program, which has three main central and transverse pillars: physical activity, healthy nutrition, and related education. Physical activity is the model’s most important bulwark.

**Result**

The program was finally implemented in 2015 in all the settlements of region where the workers reside reaching an adherent level of 1818 people, demonstrating its widespread acceptance amongst employees and their families. In 2017 there are more than 3000 participants and at the end of 2016, despite the short period since implementation, overweight and obesity levels had fallen by 3.75% and triglyceride levels had dropped by 6.9% (cholesterol was unchanged). Program adherence has remained steady at 70% since the start of the pilot test as well as throughout the year and a half of the program itself.

**Discussion**

Considering that other similar initiatives reach maximums of 45%-50%, this program’s adherence is quite successful. Throughout 2015 and 2016, there were more than 100,200 hours of activities with 91,710 participant attendances. The program has strengthened ties amongst the participants and communities involved, which has been reflected in interactions on social networks showing various activities held at different locations.