One of the ultimate goals of the Chromosome 18 Clinical Research Center is to be able to predict what kinds of health and developmental concerns a person will have based on the precise location of the deletion. Someday, we hope to have a “map” of chromosome 18. Clinicians could use this map to learn what happens when each gene is deleted or duplicated. This paper can be considered the first draft of this map. Two hundred and fifty-three genes were included in this map. The effects of copy number genes remain unknown for 167 of these genes. Eighty-one genes were determined to be “haplosufficient”. This means that no medical or developmental problems arise when these genes are duplicated or deleted. Four genes are “haploinsufficient”. This means that medical and/or developmental concerns may arise when one of the two copies of the gene is deleted. Lastly, there is one gene that, when deleted, does not cause problems unless there is a second genetic change somewhere else in the genome. At this point in time, the gene dosage map is not ready for “prime time”. We hope that, with more research, time, and data, it will be ready soon!