WHAT IS CLAIMED IS:

1. ~~A method for the treatment, or reduction of risk, of a disorder associated with neurodegeneration in a subject, the method comprising administering a therapeutically or prophylactically effective amount~~Use of a composition prepared using crystals of Glutathione Trisulfide (GSSSG) in the manufacture of a medicament for the treatment, or reduction of risk, of a disorder associated with neurodegeneration in a subject, wherein a therapeutically or prophylactically effective amount of the composition is to be administered to a subject in need thereof.

2. The use~~method~~ of claim 1, ~~further comprising preparing~~wherein the composition comprising GSSSG is prepared by dissolving a crystalline form of GSSSG in saline at pH 3-6.

3. The use~~method~~ of claim 1, wherein the disorder is post-ischemic neuronal death.

4. The use~~method~~ of claim 1, wherein the disorder is a chronic cerebral degenerative disease.

5. The use~~method~~ of claim ~~1~~4, wherein the chronic cerebral degenerative disease is multi-infarct dementia, Alzheimer's disease, Parkinson's disease, or Lewy body dementia.

6. The use~~method~~ of claim 1, ~~comprising administering~~wherein an effective amount of ~~a~~the composition comprising GSSSG is to be administered within a few minutes to hours after a traumatic injury occurs.

7. The use~~method~~ of claim 1, ~~comprising administering~~wherein an effective amount of ~~a~~the composition comprising GSSSG is to be administered before a scheduled thoracic and/or abdominal aortic surgical procedure.

8. The use~~method~~ of claim 7, ~~comprising administering~~wherein an effective amount of ~~a~~the composition comprising GSSSG is to be administered hours to days before a scheduled thoracic and/or abdominal aortic surgical procedure.

9. The use~~method~~ of claim 8, ~~comprising administering~~wherein an effective amount of ~~a~~the composition comprising GSSSG is to be administered 2-24 hours, and/or 1, 2, 3, 4, 5, 6, and/or 7 days before the scheduled thoracic and/or abdominal aortic surgical procedure.

10. A composition prepared using crystals of Glutathione Trisulfide (GSSSG) for use in the treatment, or reduction of risk, of a disorder associated with neurodegeneration in a subject, ~~the method comprising administering~~ wherein a therapeutically or prophylactically effective amount of the composition is to be administered to a subject in need thereof.

11. The composition for the use of claim 10, wherein the composition is prepared by ~~a method comprising~~ dissolving a crystalline form of GSSSG in saline at pH 3-6.

12. The composition for the use of claim 10, wherein the disorder is post-ischemic neuronal death.

13. The composition for the use of claim 10, wherein the disorder is a chronic cerebral degenerative disease.

14. The composition for the use of claim 13~~10~~, wherein the chronic cerebral degenerative disease is multi-infarct dementia, Alzheimer's disease, Parkinson's disease, or Lewy body dementia.

15. The composition for the use of claim 10, wherein ~~the method comprises administering~~ an effective amount of the~~a~~ composition comprising GSSSG is to be administered within a few minutes to hours after a traumatic injury occurs.

16. The composition for the use of claim 10, wherein ~~the method comprises administering~~ an effective amount of the~~a~~ composition comprising GSSSG is to be administered before a scheduled thoracic and/or abdominal aortic surgical procedure.

17. The composition for the use of claim 16, wherein ~~the method comprises administering~~ an effective amount of the~~a~~ composition comprising GSSSG is to be administered hours to days before a scheduled thoracic and/or abdominal aortic surgical procedure.

18. The composition for the use of claim 17, wherein ~~the method comprises administering~~ an effective amount of the~~a~~ composition comprising GSSSG is to be administered 2-24 hours, and/or 1, 2, 3, 4, 5, 6, and/or 7 days before the scheduled thoracic and/or abdominal aortic surgical procedure.

19. A composition prepared using crystals of Glutathione Trisulfide (GSSSG) for use in therapy.