CLAIMS

1. Cefuroxime safety delivery system, comprising

   (a) A perforable sterile vial sterile-filled with a measured amount of cefuroxime,

   (b) A receptacle holding 0.1 ml of sterile isotonic salt solution per mg cefuroxime in the perforable vial and means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution at a concentration of 10 mg/ml into a delivery syringe, and

   (c) one or more sterilized delivery syringes with male luer fitting, each delivery syringe being capable of holding ~~at least~~ 0.1 ml of ejectable liquid and containing a marking indicating a fill volume of 0.1 ml of ejectable liquid; wherein all components of the cefuroxime safety delivery system are provided in a sterile state.

2. A cefuroxime safety delivery according to claim 1 wherein the receptacle is a sterile-filled reconstitution syringe with a male luer fitting and the means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution into the delivery syringe is a vial adapter with a female luer fitting or one or more needles with a female luer fitting.

3. A cefuroxime safety delivery system according to claim 1 wherein the receptacle is a sterile-filled reconstitution syringe with a male luer fitting and the means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution into the delivery syringe is a flow control device.

4. A cefuroxime safety delivery system according to claim 1 wherein the receptacle is a second perforable vial sterile-filled with the isotonic salt solution, and the means for transferring the isotonic salt solution to the first perforable vial and for removing from the first perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution into the delivery syringe is an empty reconstitution syringe with a male luer fitting capable of holding ~~and a fill volume sufficiently large to hold~~ the isotonic salt

solution contained in the second perforable vial and two vial adapters with female luer fitting or one or more shield-protected needles with female luer fitting.

5. A cefuroxime safety delivery system according to claim 1 wherein the receptacle is a second perforable vial sterile-filled with the isotonic salt solution, and the means for transferring the isotonic salt solution to the first perforable vial and for removing from the first perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution into the delivery syringe is a vial-to-vial transfer adapter and a vial adapter with a female luer fitting or one or more shield-protected needles with female luer fitting.

6. A cefuroxime safety delivery system according to claim 1 wherein the receptacle is a second perforable vial sterile-filled prefilled with the isotonic salt solution, and the means for transferring the isotonic salt solution to the first perforable vial and for removing from the first perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution into the delivery syringe is a needleless transfer device.

~~7. Cefuroxime safety delivery system, comprising~~

~~(a) a perforable sterile vial sterile-filled with a measured amount of cefuroxime, and (b) a receptacle holding 0.1 ml of sterile isotonic salt solution per mg cefuroxime in the perforable vial and means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution for injection of a volume of 0.1 ml into the eye of a patent.~~

~~8. A Cefuroxime delivery system according to claim 7 wherein the receptacle is a sterile-filled reconstitution syringe with a male luer fitting and containing a marking indicating a fill volume of 0.1 ml of ejectable liquid, and the means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution for injection of a volume of 0.1 ml into the eye of a patient consists of a vial adapter with a female luer fitting of a shield-protected needle with a female luer fitting.~~

~~9. A Cefuroxime delivery system according to claim 7 wherein the receptacle is a sterile-filled reconstitution syringe with a male luer fitting and containing a marking indicating a fill volume of 0.1 ml of ejectable liquid, and the means for transferring the isotonic salt solution to the perforable vial and for removing from the perforable vial and aliquot of cefuroxime dissolved in the isotonic salt solution for injection of a volume of 0.1 ml into the eye of a patient consists of a flow control device.~~

~~10. A Cefuroxime delivery system according to claim 7 wherein the receptacle is a second perforable vial sterile-filled with the isotonic salt solution, and the means for transferring the isotonic salt solution to the first perforable vial and for removing from the first perforable vial an aliquot of cefuroxime dissolved in the isotonic salt solution for injection of a volume of 0.1 ml into the eye of a patient consists of an empty reconstitution syringe with a male luer fitting, a fill volume sufficiently large to hold the isotonic salt solution contained in the second perforable vial and a marking indicating a fill volume of 0.1 ml of ejectable liquid, and two vial adapters with a female luer fitting or a shield-protected needle with a female luer fitting.~~

~~11~~ 7. A cefuroxime delivery system according to any of claims 1-~~10~~ 6 wherein the perforable vial or the first perforable vial has been powder-filled with cefuroxime under sterile conditions or was sterile-filled with a sterile aqueous solution of cefuroxime, which solution was subjected to lyophilization.

~~12~~ 8. Use of a cefuroxime safety delivery system according to claims 2 or 3 for the preparation of a one mg dose of cefuroxime for intracameral injection, comprising the steps of

(a) transferring the entire contents of the prefilled reconstitution syringe into the perforable vial comprising cefuroxime,

(b) manually shaking said vial to obtain a homogeneous solution of the contents of the closed vial, and

(c) withdrawing into the delivery syringe 0.1 ml of ejectable solution from said vial.

~~13~~ 9. Use of a cefuroxime safety delivery system according to any of claims 4-6 for the preparation of a one mg dose of cefuroxime for intracameral injection, comprising the steps of

(a) transferring the entire contents of the second perforable vial into the first perforable vial,

(b) manually shaking the first perforable vial to obtain a homogenous solution of its contents, and

(c) withdrawing into the delivery syringe 0.1 ml of ejectable solution from the first perforable vial.

~~14. Use of a cefuroxime safety delivery system according to claims 8 or 9 for the preparation of a one mg dose of cefuroxime for intracameral injection, comprising the steps of~~

~~(a) transferring the entire contents of the prefilled reconstitution syringe into the perforable vial comprising cefuroxime,~~

~~(b) manually shaking said vial to obtain a homogeneous solution of the contents of the closed vial, and~~

~~(c) withdrawing into the delivery syringe 0.1 ml of ejectable solution from said vial.~~

~~15. Use of a cefuroxime safety delivery system according to claim 10 for the preparation of a one mg dose of cefuroxime for intracameral injection, comprising the steps of~~

~~(a) transferring the entire contents of the second perforable vial into the first perforable vial using the empty reconstitution syringe,~~

~~(b) manually shaking the first perforable vial tp obtain a homogeneous solution of its contents, and~~

~~(c) withdrawing into the empty reconstitution syringe 0.1 ml of ejectable solution from the first perforable vial.~~

~~16. A sterilized two-chamber syringe with a male luer fitting comprising in a first chamber about 1 mg of cefuroxime powder and in a second chamber about 0.1 ml of isotonic salt solution, the syringe comprising a mechanism for enabling~~

~~communication between a first and second chambers to allow reconstitution of a sterile cefuroxime solution and ejecting the solution.~~

~~17. Cefuroxime safety delivery system, comprising~~

~~(a) A sterilized two-chamber syringe with a male luer fitting comprising in a first chamber a measured amount of cefuroxime powder and in a second chamber 0.1 ml of isotonic salt solution for every mg of cefuroxime in the first chamber, the syringe comprising a mechanism for enabling communication between first and second chambers to allow reconstitution of a sterile cefuroxime solution and ejecting the solution,~~

~~(b) a perforable sterile empty vial capable of holding the reconstituted cefuroxime solution from the two-chamber syringe and a vial adapter with a female luer fitting or one or more shield-protected sterile needles with female luer fitting and~~

~~(c) one or more sterilized delivery syringes with male luer fitting, each delivery syringe being capable of holding at least 0.1 ml of ejectable liquid and containing a marking indicating a fill volume of 0.1 ml of ejectable liquid.~~

~~18. Cefuroxime safety delivery system, comprising~~

~~(a) A sterile vial or cartridge perforably closed at one end, the cartridge comprising two separated chambers of which one contains a measured amount of cefuroxime powder and the other 0.1 ml of sterile isotonic salt solution per mg of cefuroxime, the chambers separated by a divider and the cartridge incorporating a mechanism for displacing the divider to allow communication between the chambers and reconstitution of a cefuroxime solution,~~

~~(b) one or more sterilized delivery syringes with male luer fitting, each delivery syringe being capable of holding at least 0.1 ml of ejectable liquid and containing a marking indicating a fill volume of 0.1 ml of ejectable liquid, and~~

~~(c) a vial adapter or one or more shielded needles with female luer fitting.~~

~~19~~ 10. The cefuroxime safety delivery system of any of claims 1-7 ~~11 and 16-18~~ packaged in a sealed container, whereby individual or grouped components of the delivery system are sterile-packaged separately.

~~20~~ 11. The cefuroxime safety delivery system of any of claims 1-7 and 11~~-10and 16-19~~, the delivery system further including user information.