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Administration's regulations on conditions of Medicare participation for hospitals (42 CFR part 482) are required to take appropriate action in accordance with paragraphs (b) and (c) of this section when a recipient has received Whole Blood or blood components from a donor determined to be unsuitable when tested for human immunodeficiency virus (HIV) infection in accordance with § 610.45 and the results of the additional tests as provided for in § 610.46(b) are positive.

(b) *Notification of recipients of prior transfusion.* If the transfusion service has administered Whole Blood or blood components as described in paragraph (a) of this section, the transfusion service shall notify the recipient's attending physician (physician of record) and ask him or her to inform the recipient of the need for HIV testing and counseling. If the physician is unavailable or declines to notify the recipient, the transfusion service shall notify the recipient and inform the recipient of the need for HIV testing and counseling. The notification process shall include a minimum of three attempts to notify the recipient and be completed within a maximum 8 weeks of receipt of the result of the licensed, more specific test for HIV. The transfusion service is responsible for notification, including basic explanations to the recipient and referral for counseling, and shall document the notification or attempts to notify the attending physician or the recipient, pursuant to § 606.160 of this chapter.

(c) *Notification to legal representative or relative.* If the transfusion recipient has been adjudged incompetent by a State court, the transfusion service or physician must notify a legal representative designated in accordance with State law. If the transfusion recipient is competent, but State law permits a legal representative or relative to receive the information on the recipient's behalf, the transfusion service or physician must notify the recipient or his or her legal representative or relative. If the transfusion recipient is deceased, the transfusion service or physician must continue the notification process and inform the deceased recipient's legal representative or relative. Reasons for notifying the recipient's

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ent's relative or legal representative on his or her behalf shall be documented pursuant to § 606.160 of this chapter.

[61 FR 47423, Sept. 9, 1996]

Subpart F—Dating Period Limitations

§ 610.50 Date of manufacture.

The date of manufacture shall be determined as follows:

(a) For products for which an official standard of potency is prescribed in either § 610.20 or § 610.21, or which are subject to official potency tests, the date of initiation by the manufacturer of the last valid potency test.

(b) For products that are not subject to official potency tests, (1) the date of removal from animals, (2) the date of extraction, (3) the date of solution, (4) the date of cessation of growth, or (5) the date of final sterile filtration of a bulk solution, whichever is applicable.

[38 FR 32056, Nov. 20, 1973, as amended at 42 FR 27582, May 31, 1977]

§ 610.53 Dating periods for licensed biological products.

(a) *General.* The minimum dating periods in paragraph (c) of this section are based on data relating to usage, clinical experience, or laboratory tests that establish the reasonable period beyond which the product cannot be expected to yield its specific results and retain its safety, purity, and potency, provided the product is maintained at the recommended temperatures. The standards prescribed by the regulations in this subchapter are designed to ensure the continued safety, purity, and potency of the products and are based on the dating periods set forth in paragraph (c) of this section. Package labels for each product shall recommend storage at the stated temperatures.

(b) *When the dating period begins.* The dating period for a product shall begin on the date of manufacture, as prescribed in § 610.50. The dating period for a combination of two or more products shall be no longer than the dating period of the component with the shortest dating period.

(c) *Table of dating periods.* In using the table in this paragraph, a product

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in column A may be stored by the manufacturer at the prescribed temperature and length of time in either column B or C, plus the length of time in column D. The dating period in column D shall be applied from the day the product leaves the manufacturer's storage, provided the product has not ex-

ceeded its maximum storage period, as prescribed in column B or C. If a product is held in the manufacturer's storage beyond the period prescribed, the dating period for the product being distributed shall be reduced by a corresponding period.

A	B	C	D
Product	Manufacturer's storage period 1 to 5 °C (unless otherwise stated)	Manufacturer's storage period 0 °C or colder (unless otherwise stated)	Dating period after leaving manufacturer's storage when stored at 2 to 8 °C (unless otherwise stated)
Adenovirus Vaccine Live Oral	6 months	Not applicable	6 months.
Albumin (Human)	3 years .....	.....do	(a) 5 years.
	.....do .....	.....do	(b) 3 years, provided labeling recommends storage at room temperature, no warmer than 37 °C.
	Not applicable .....	.....do	(c) 10 years, if in a hermetically sealed metal container and provided labeling recommends storage between 2 and 8 °C.
Allergenic Extracts labeled "No U.S. Standard of Potency":			
1. With 50 percent or more glycerin ...	3 years .....	.....do	3 years.
2. With less than 50 percent glycerin	18 months .....	.....do	18 months.
3. Products for which cold storage conditions are inappropriate.	Not applicable .....	.....do	18 months (from date of manufacture), provided labeling recommends storage at 30 °C or colder.
4. Powders and tablets .....	.....do .....	.....do	5 years (from date of manufacture), provided labeling recommends storage at 30 °C or colder.
5. Freeze-dried products:			
a. Unreconstituted .....	.....do .....	.....do	4 years (from date of manufacture).
b. Reconstituted .....	.....do .....	.....do	18 months (cannot exceed 4-year unreconstituted dating period plus an additional 12 months).
Allergenic Extracts, Alum Precipitated labeled "No U.S. Standard of Potency".	18 months .....	.....do	18 months.
Anthrax Vaccine Adsorbed	2 years .....	.....do	1 year.
Antibody to Hepatitis B Surface Antigen:			
1. Antibody to Hepatitis B Surface Antigen.	6 months .....	.....do	6 months.
2. Lyophilized coated red blood cells	.....do .....	.....do	Do.
3. Enzyme conjugated products .....	.....do .....	.....do	Do.
Iodinated (¹²⁵ I) products	Not applicable .....	.....do	45 days (from date of manufacture).
Antihemophilic Factor (Human) .....	.....do .....	.....do	1 year (from date of manufacture).
Anti-Human Globulin Liquid .....	.....do .....	.....do	2 years.
Anti-Inhibitor Coagulant Complex .....	.....do .....	.....do	Do.
Antirabies Serum	1 year .....	.....do	Do.
Antivenin (<i>Crotalidae</i>) Polyvalent .....	.....do .....	.....do	5 years with an initial 10 percent excess of potency, provided labeling recommends storage at 37 °C or colder.
Antivenin (<i>Latrodectus Mactans</i>) .....	.....do .....	.....do	5 years with an initial 10 percent excess of potency.
Antivenin (<i>Micurus fulvius</i>) .....	.....do .....	.....do	Do.
Asparaginase	Not applicable .....	.....do	18 months from the date of the last valid potency test.
BCG Vaccine	1 year	Not applicable	6 months.
Blood Grouping Reagents			
1. Liquid	Not applicable	Not applicable	2 years.
2. Dried	1 year	2 years	5 years.
Blood Group Substance AB .....	.....do .....	.....do	2 years.
Blood Group Substance A .....	.....do .....	.....do	Do.
Blood Group Substance B .....	.....do .....	.....do	Do.
Botulism Antitoxin .....	.....do	Not applicable	5 years with an initial 20 percent excess of potency.
Cholera Vaccine .....	.....do .....	.....do	18 months.
Coccioidin .....	.....do .....	.....do	3 years.

A	B	C	D
Product	Manufacturer's storage period 1 to 5 °C (unless otherwise stated)	Manufacturer's storage period 0 °C or colder (unless otherwise stated)	Dating period after leaving manufacturer's storage when stored at 2 to 8 °C (unless otherwise stated)
Collagenase	Not applicable .....	.....do	4 years (from date of manufacture), provided labeling recommends storage at 37 °C or colder.
Cryoprecipitated AFH .....	.....do .....	.....do	12 months from the date of collection of source blood, provided labeling recommends storage at –18 °C or colder.
Diphtheria Antitoxin:			
1. Liquid	1 year .....	.....do	5 years with an initial 20 percent excess of potency.
2. Dried .....	.....do	2 years	5 years with an initial 10 percent excess of potency.
Diphtheria and Tetanus Toxoids and Pertussis Vaccine Adsorbed.	.....do	Not applicable	18 months.
Diphtheria and Tetanus Toxoids, Adsorbed.	.....do .....	.....do	2 years.
Diphtheria Toxin for Schick Test .....	.....do .....	.....do	1 year.
Diphtheria Toxoid .....	.....do .....	.....do	2 years.
Diphtheria Toxoid Adsorbed .....	.....do	2 years	Do.
Diphtheria Toxoid-Schick Test Control	Not applicable	Not applicable	1 year.
Factor IX Complex .....	.....do .....	.....do	1 year (from date of manufacture).
Fibrinolysin (Human)	1 year	2 years	2 years.
Fibrinolysin and Desoxyribonuclease Combined (Bovine).	.....do .....	.....do	3 years, provided labeling recommends storage at 30 °C or colder.
Fibrinolysin and Desoxyribonuclease Combined (Bovine) with Chloramphenicol.	.....do .....	.....do	Do.
Hepatitis B Surface Antigen:			
1. Unlyophilized coated red blood cells.	Not applicable .....	.....do	14 days (from date of manufacture).
2. Iodinated (¹²⁵ I) product .....	.....do .....	.....do	45 days (from date of manufacture).
3. Enzyme conjugated product	6 months .....	.....do	6 months.
Histoplasmin	1 year	Not applicable	2 years.
Immunoglobulins:			
1. Hepatitis B Immune Globulin (Human).	Not applicable .....	.....do	1 year.
2. Immune Globulin (Human)	3 years .....	.....do	3 years.
3. Immune Globulin Intravenous (Human).	Not applicable .....	.....do	1 year.
4. Lymphocyte Immune Globulin, Anti-Thymocyte Globulin (Equine).	.....do	Not applicable	2 years.
5. Pertussis Immune Globulin (Human).	3 years .....	.....do	3 years from date the dried or frozen bulk product is placed in final solution.
6. Rabies Immune Globulin (Human)	1 year .....	.....do	1 year.
7. Rh ₀ (D) Immune Globulin (Human)	6 months .....	.....do	6 months.
8. Tetanus Immune Globulin (Human)	1 year .....	.....do	3 years with an initial 10 percent excess of potency.
9. Vaccinia Immune Globulin (Human)	3 years .....	.....do	3 years.
10. Varicella-Zoster Immune Globulin (Human).	Not applicable .....	.....do	1 year.
Hepatitis B Vaccine	2 years at 2 to 8 °C.	Not applicable	3 years.
Influenza Virus Vaccine	1 year .....	.....do	18 months.
Limulus Amebocyte Lysate	Not applicable	Not applicable	18 months (from date of manufacture).
Measles, Mumps, and Rubella Virus Vaccine Live.	.....do	1 year (–20 °C or colder).	1 year.
Measles and Mumps Virus Vaccine Live ..	.....do .....	.....do	1 year.
Measles and Rubella Virus Vaccine Live ..	.....do .....	.....do	Do.
Measles Live and Smallpox Vaccine	Not applicable .....	.....do	1 year (from date of manufacture).
Measles Virus Vaccine Live .....	.....do .....	.....do	1 year.
Meningococcal Polysaccharide Vaccine Group A:			
1. Final bulk powder .....	.....do	2 years (–20 °C or colder).	Not applicable.
2. Final container	Not applicable	3 years (–20 °C or colder).	2 years.
Meningococcal Polysaccharide Vaccine Group C:			
1. Final bulk powderdo	2 years (–20 °C or colder).	Not applicable.

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Product	Manufacturer's storage period 1 to 5 °C (unless otherwise stated)	Manufacturer's storage period 0 °C or colder (unless otherwise stated)	Dating period after leaving manufacturer's storage when stored at 2 to 8 °C (unless otherwise stated)
2. Final container .....	.....do	3 years (–20 °C or colder).	2 years.
Meningococcal Polysaccharide Vaccine Groups A and C combined:			
1. Final bulk powder .....	.....do	2 years (–20 °C or colder).	Not applicable.
2. Final container .....	.....do	3 years (–20 °C or colder).	2 years.
Meningococcal Polysaccharide Vaccine Groups A, C, Y, and W135 combined:			
1. Final bulk powder .....	.....do	2 years (–20 °C or colder).	Not applicable.
2. Final container .....	.....do	3 years (–20 °C or colder).	2 years.
Mumps Skin Test Antigen	6 months	Not applicable	18 months.
Mumps Virus Vaccine Live	Not applicable	1 year (–20 °C or colder).	1 year.
Normal Horse Serum	1 year	2 years	5 years.
Pertussis Vaccine .....	.....do	Not applicable	18 months.
Pertussis Vaccine Adsorbed .....	.....do .....	.....do	Do.
Plague Vaccine .....	.....do .....	.....do	Do.
Plasma products:			
1. Fresh Frozen Plasma	Not applicable .....	.....do	1 year from date of collection of source blood (–18 °C or colder).
2. Liquid Plasma .....	.....do .....	.....do	(a) 26 days from date of collection of source blood (between 1 and 6 °C).
			(b) 40 days from date of collection of source blood only when CPDA-1 solution is used as the anticoagulant (between 1 and 6 °C).
3. Plasma .....	.....do .....	.....do	5 years from date of collection of source blood (–18 °C or colder).
4. Platelet Rich Plasma .....	.....do .....	.....do	72 hours from time of collection of source blood, provided labeling recommends storage (20 to 24 °C or between 1 and 6 °C). 5 days if certain approved containers are used (20 to 24 °C).
5. Source Leukocytes .....	.....do .....	.....do	In lieu of expiration date, the collection date shall appear on the label.
6. Source Plasma .....	.....do .....	.....do	10 years (at the recommended storage temperature stated on the label).
7. Therapeutic Exchange Plasma .....	.....do .....	.....do	10 years.
Plasma Protein Fraction (Human)	1 year .....	.....do	(a) 5 years.
			(b) 3 years provided labeling recommends storage at room temperature, no warmer than 30 °C).
Platelets	Not applicable .....	.....do	72 hours from time of collection of source blood, provided labeling recommends storage at 20 to 24 °C or between 1 and 6 °C. 5 days if certain approved containers are used (20 to 24 °C).
Pneumococcal Vaccine Polyvalent:			
1. Final bulk powder .....	.....do	24 months after potency assay (–20 °C or colder).	Not applicable.
2. Final container .....	.....do	Not applicable	2 years (from date of manufacture).
Poliovirus Vaccine Inactivated	1 year .....	.....do	1 year.
Poliovirus Vaccine Live Oral Trivalent:			
1. Frozen	Not applicable	1 year (–10 °C or colder).	1 year, provided labeling recommends storage at a temperature which will maintain ice continuously in a solid state.
2. Liquiddo	Not applicable	30 days, provided labeling recommends storage between 2 and 8 °C and container has been unopened.

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Poliovirus Vaccine Live Oral Type I: 1. Frozendo 2. Liquiddododo	1 year (– 10 °C or colder). Not applicable	1 year, provided labeling recommends storage at a temperature which will maintain ice continuously in a solid state. 30 days, provided labeling recommends storage between 2 and 8 °C and container has been unopened.
Poliovirus Vaccine Live Oral Type II: 1. Frozen .....do 2. Liquid .....do .....	.....do ..... .....do	1 year (– 10 °C or colder). Not applicable	1 year, provided labeling recommends storage at a temperature which will maintain ice continuously in a solid state. 30 days, provided labeling recommends storage between 2 and 8 °C and container has been unopened.
Poliovirus Vaccine Live Oral Type III: 1. Frozen .....do 2. Liquid .....do .....	.....do ..... .....do	1 year (– 10 °C or colder). Not applicable	1 year, provided labeling recommends storage at a temperature which will maintain ice continuously in a solid state. 30 days, provided labeling recommends storage between 2 and 8 °C and container has been unopened.
Polyvalent bacterial antigens with "No U.S. Standard of Potency" liquid.	1 year .....	.....do	18 months.
Polyvalent bacterial vaccines with "No U.S. Standard of Potency" liquid.	.....do .....	.....do	Do.
Rabies Vaccine:	.....do	2 years	Do.
1. Dried .....	.....do .....	.....do	6 months.
2. Liquid	3 months	Not applicable	Do.
Reagent red blood cells	Not applicable	Not applicable	Thirty-five days from earliest date of collection if kept in liquid form (indefinite storage of reagent red blood cell source material at – 65 °C or colder).
ACD Red Blood Cells .....	.....do .....	.....do	(a) 21 days from date of collection of source blood, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is not broken during processing.
CPD Red Blood Cells .....	.....do .....	.....do	(b) 24 hours after plasma removal, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is broken during processing.
CPDA–1 Red Blood Cells .....	.....do .....	.....do	(a) 21 days from date of collection of source blood, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is not broken during processing.
Red Blood Cells Deglycerolized .....	.....do .....	.....do	(b) 24 hours after plasma removal, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is broken during processing.
Red Blood Cells Frozen .....	.....do .....	.....do	(a) 35 days from date of collection of source blood, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is not broken during processing.
Red Blood Cells Deglycerolized .....	.....do .....	.....do	(b) 24 hours after plasma removal, provided labeling recommends storage between 1 and 6 °C and the hermetic seal is broken during processing.
Red Blood Cells Frozen .....	.....do .....	.....do	24 hours after removal from storage at – 65 °C or colder, provided labeling recommends storage between 1 and 6 °C.
Red Blood Cells Frozen .....	.....do .....	.....do	3 years from date of collection of source blood, provided labeling recommends storage at – 65 °C or colder.

A	B	C	D
Product	Manufacturer's storage period 1 to 5 °C (unless otherwise stated)	Manufacturer's storage period 0 °C or colder (unless otherwise stated)	Dating period after leaving manufacturer's storage when stored at 2 to 8 °C (unless otherwise stated)
Rubella and Mumps Virus Vaccine Live ....	.....do	1 year (–20 °C or colder).	1 year.
Rubella Virus Vaccine Live .....	.....do .....	.....do	Do.
Skin Test Antigens for Cellular Hypersensitivity.	6 months	Not applicable	Do.
Smallpox Vaccine:			
1. Liquid	Not applicable	9 months (–10 °C or colder, if product is maintained as glycerinated or equivalent vaccine in bulk or final containers).	3 months, provided labeling recommends storage at 0 °C or colder.
2. Dried	6 months	Not applicable	18 months.
Streptokinase	Not applicable .....	.....do	Do.
Tetanus and Diphtheria Toxoids Adsorbed for Adult Use.	1 year .....	.....do	2 years.
Tetanus Antitoxin:			
1. Liquid .....	.....do .....	.....do	5 years with an initial 20 percent excess or potency.
2. Dried .....	.....do	2 years	5 years with an initial 10 percent excess or potency.
Tetanus Toxoid .....	.....do	Not applicable	2 years.
Tetanus Toxoid Adsorbed .....	.....do .....	.....do	Do.
Thrombin .....	.....do	2 year	3 years.
Thrombin Impregnated Pad	Not applicable	Not applicable	1 year, or 6 months at 20 to 24 °C.
Tuberculin:			
1. Purified Protein Derivative, diluted	6 months .....	.....do	1 year.
2. Old or Purified Protein Derivative dried on multiple puncture device.	1 year (not to exceed 30 °C; do not refrigerate).	.....do	2 years, provided labeling recommends storage at a temperature not to exceed 30 °C. Do not refrigerate.
3. Old on multiple puncture device ....	.....do .....	.....do	Do.
Typhoid Vaccine	1 year .....	.....do	18 months.
ACD Whole Blood	Not applicable .....	.....do	21 days from date of collection, provided labeling recommends storage between 1 and 6 °C.
CPD Whole Blood .....	.....do .....	.....do	Do.
CPDA–1 Whole Blood .....	.....do .....	.....do	35 days from date of collection, provided labeling recommends storage between 1 and 6 °C.
Heparin Whole Blood .....	.....do .....	.....do	48 hours from date of collection, provided labeling recommends storage between 1 and 6 °C.
Yellow Fever Vaccine .....	.....do	1 year (–20 °C or colder).	1 year, provided labeling recommends storage at 5 °C or colder.

(d) *Exemptions.* Exemptions or modifications shall be made only upon written approval, in the form of a supplement to the biologics license application, issued by the Director, Center for Biologics Evaluation and Research or the Director of the Center for Drug Evaluation and Research.

[50 FR 4134, Jan. 29, 1985, as amended at 51 FR 15607, Apr. 25, 1986; 51 FR 19750, June 2, 1986; 52 FR 37450, Oct. 7, 1987; 53 FR 12764, Apr. 19, 1988; 62 FR 15110, Mar. 31, 1997; 64 FR 56453, Oct. 20, 1999; 70 FR 14985, Mar. 24, 2005]

Subpart G—Labeling Standards

§ 610.60 Container label.

(a) *Full label.* The following items shall appear on the label affixed to each container of a product capable of bearing a full label:

- (1) The proper name of the product;
- (2) The name, address, and license number of manufacturer;
- (3) The lot number or other lot identification;
- (4) The expiration date;
- (5) The recommended individual dose, for multiple dose containers.