PHARMACEUTICAL FORMULAS

PROPOSED FOR A. PH. A. RECIPE BOOK

Thus far a collection of 114 Pharmaceutical Formulas has been compiled and published in The Journal, Vol. I, pp. 169, 366, 505, 637, 760 and 1307 (Feb. to Nov. 1912). Beginning with the March 1916 number these Formulas will be continued in monthly instalments by the Committee, and all members of the American Pharmaceutical Association are earnestly requested to render assistance by sending suitable formulas and criticisms to the Chairman, Otto Raubenheimer, Brooklyn, N. Y.

Contributed by Wm. Gray, Presbyterian	No. 223.
Hospital, Chicago:	UNG. BALSAMI PERUVIANI COMP.
No. 218.	"Bed-sore Ointment."
FORTIFIED CASTOR OIL.	Balsam of Peru 10 Gm.
Croton Oil 1 drop Castor Oil 4 mils	Zinc Oxide 40 Gm. Castor Oil 50 Gm.
At one dose.	Mr. Gray thinks that this is the best-known
No. 219.	treatment for bed-sores.
BLACK DYE FOR SILKWORM-GUT SUTURE.	
Extract of Logwood 20 Gm.	No. 224.
Copper Sulphate 8 Gm.	UNG. CAMPHO-PHENO COMP.
Distilled Water 1000 mils	Camphor,
Boil the white silkworm-gut in sterile	Phenol, of each
water for 30 minutes. After bringing the dye to the boiling point, add the gut and boil	Petrolatum, of each 240 Gm.
for 5 minutes.	Triturate the camphor and phenol until
Preserve in 95 percent alcohol.	liquefied and gradually add the mixture of
No. 220.	petrolatum and zinc oxide.
,	A very efficacious remedy for hemorrhoids.
MORHAM'S PLUG.	
MORHAM'S PLUG. Sesame Oil,	No. 225.
Sesame Oil,	SPLENDID OINTMENT BASE.
Sesame Oil, Paraffin, of each	
Sesame Oil, Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, 40 Gm. Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, 40 Gm. Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, 40 Gm. Paraffin, of each 20 Gm. Iodoform 20 Gm. No. 221. GELATIN BONE PLUG. Gelatin 30 Gm. Water 30 mils	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, 40 Gm. Paraffin, of each 20 Gm. Iodoform 20 Gm. No. 221. GELATIN BONE PLUG. Gelatin 30 Gm. Water 30 mils Glycerin 40 mils Just before using add 2 percent of solution of formaldehyde. This is the formula of a	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, Paraffin, of each	White Wax 20 Gm. Liquid Petrolatum 70 Gm. Rose Water 30 mils Sodium Borate 1 Gm. Follow directions in Formula No. 116 (J.A.Ph.A., March, 1916, p. 309). No. 226. ABSORBENT COLD CREAM. Spermaceti, White Wax, of each 30 Gm. Expressed Oil Almond 240 Gm.
Sesame Oil, Paraffin, of each	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, Paraffin, of each 40 Gm. Iodoform 20 Gm. No. 221. GELATIN BONE PLUG. Gelatin 30 Gm. Water 30 mils Glycerin 40 mils Just before using add 2 percent of solution of formaldehyde. This is the formula of a world-famous surgeon. No. 222. HORSLEY'S WAX. Yellow Wax 7 Gm. Expressed Oil of Almond 1 mil	SPLENDID OINTMENT BASE. White Wax
Sesame Oil, Paraffin, of each	SPLENDID OINTMENT BASE. White Wax

No. 227.

THEATRICAL COLD CREAM.

White Wax		
Ceresin	100	Gm.
Liquid Petrolatum	400	Gm.
Sodium Borate	8	Gm.
Distilled Water	175	mils
Perfume, a sufficient quantity.		

Follow directions in Formula No. 116.

Ceresin is a hard paraffin, melting point about 55° C. It is prepared by purifying ozokerite, or earth wax, a natural mineral wax found in Galicia.

The cheaper ceresin replaces the spermaceti in Formula No. 116 and thus lessens the cost of the cold cream.

No. 228.

KIETH'S MIXTURE.

Heavy Magnesium Oxide	8 Gm.
Magnesium Sulphate	24 Gm.
Glycerin	30 mils
Mucilage of Acacia	30 mils
Peppermint Water, a sufficient quantity,	

To make	 180	mils

This is a famous Scotch preparation and is used as a stomachic.

Dose: 4 to 8 mils as necessary.

No. 229.

LAMBERT TREATMENT.

(For Drug and Alcohol Addiction.)

Fluidextract of Hyoscyamus	15	mils
Fluidextract of Xanthoxylum	15	mils
Tincture of Belladonna (15 percent)	3 0	mils

Dose: Begin with 6 to 8 minims every hour, or until some signs of belladonna intoxication are observed. Every 6 hours increase the specific 2 minims until 14 or 16 minims are being taken every hour, but do not exceed 16 minims. If signs of belladonna intoxication are noticed, such as dilated pupils, dryness of throat, red rash, or a rapidity of speech, or sometimes the beginning of delirium, then the specific must be stopped. When these symptoms have subsided, then begin again in 8 minim doses.

Some patients are very susceptible to belladonna and may have to start with 4 minims, (J.A.M.A., Sept. 25, 1909, p. 985.)

No. 230.

ZENKER'S FLUID.

Potassium Dichromate	50	Gm.
Mercuric Chloride	100	Gm.
Sodium Sulphate	20	Gm.
Water	2000	mils

Add 5 mils of acetic acid to each 100 mils of above solution at the time of using, as the finished solution decomposes readily.

Used by pathologists to fix and harden tissue and to prevent breakdown of structure. (Delafield & Prudden, Physiology, p. 1030.)

No. 231.

COMPOUND SOLUTION OF THORIUM. (For cystoscopic use.)

Distilled Water, a sufficient quantity,

To make 1000 mils

Make a hot saturated solution of thorium nitrate and gradually add the sodium citrate solution in small portions, shaking very thoroughly after each addition. At first a white, gummy precipitate is formed, which becomes granular and finally dissolves when all of the sodium citrate solution is added.

Now neutralize with solution of sodium hydroxide and finally add sufficient distilled water to make 1000 mils.

Contributed by John K. Thum, German Hospital, Philadelphia:

PHYSIOLOGICAL SOLUTIONS.

The U.S.P. IX contains the formula of such a solution under the title of Liquor Sodii Chloridi Physiologicus, Physiological Salt Solution, Normal Saline Solution.

Besides this, a number of other formulas are in use, which are herewith published. Let it be thoroughly understood these solutions must always be sterilized. This is easily accomplished by boiling in a chemical flask for at least one-half hour. Every precaution must

be taken that no contamination takes place after the sterilization. Too much stress cannot be laid on these points.

No. 232.

RINGER'S SOLUTION

Sodium Chloride	9.00 Gm.
Potassium Chloride	0.42 Gm.
Calcium Chloride	
Sodium Bicarbonate	0.20 Gm.
Distilled Water, a sufficient quan-	
tity,	

Also used for perfusing surviving organs, especially the heart.

No. 233.

LOCKE'S SOLUTION

Sodium Chloride	9.00 Gm.
Potassium Chloride	0.25 Gm.
Calcium Chloride	0.23 Gm.
Sodium Bicarbonate	0.20 Gm.
Glucose	1.00 Gm.
Distilled Water, a sufficient quan-	
tity,	

To make 1000 mils

Sometimes ordered without glucose. The latter, which is not essential to the action of the irrigating fluid, is said to increase its efficiency. Therefore it might be named a heart food. •

(See Howell's Physiology, p. 562.)

No. 234.

ADLER'S SOLUTION.

Sodium Chloride	0.5900	Gm.
Sodium Bicarbonate	0.3510	Gm.
Potassium Chloride	0.0400	Gm.
Calcium Chloride	0.0400	Gm.
Magnesium Chloride	0.0250	Gm.
Monobasic Sodium Phosphate.	0.0126	Gm.
Glucose	0.1500	Gm.
Distilled Water, a sufficient		
quantity,		

blood serum in its constitution, and provides a mechanism for maintaining its reaction and for neutralizing acids and alkalies.

Contributed by Wm. Gray, Presbyterian Hospital, Chicago:

No. 235.

FISCHER'S SOLUTION.

Sodium Carbonate, crystals	10 Gm.
Sodium Chloride	14 Gm.
Distilled Water, a sufficient quan-	
tity,	

To make 1000 mils

The distilled water should be redistilled in Jena glass. This solution is for intravenous use.

Contributed by the Chairman:

LUTES AND CEMENTS.

These are soft and adhesive compounds, used for joining different pieces of apparatus, so as to exclade air or to prevent loss of liquid or vapor. Lutes are temporary preparations, and cements are more permanent ones.

Prof. S. S. Sadtler of Philadelphia contributed an excellent paper on this subject at the Baltimore meeting of the American Institute of Chemical Engineers, from which the following formulas are taken, as pharmacists in general should become acquainted with some of the type preparations.

(Sc. Am. Suppl., No. 2104.)

WATER-PROOF.

No. 236.

Boiled linseed oil thickened with clay, asbestos, red or white lead, etc., makes a water-proof lute.

No. 237.

Ground flaxsced made into a stiff paste with water is useful as a lute for steam connections, and is easily applied.

Flaxseed meal when added to the water in a radiator will also stop leaks.

OIL-PROOF.

No. 238.

Glue	2	parts
Glycerin	1	part
Water	7	parts

Soften the glue with the water, then liquefy by heat, and add the glycerin. This lute renders corks vacuum tight and stops small leaks of almost anything, except water and steam.

No. 239.

LITHARGE CEMENT.

Glyce	rin .	 	 	<i></i>	. 90 mils
Wate	r	 	 		. 10 mils
Litha	rge .	 	 		. 90 Gm.
Red 1	Lead	 	 		. 10 Gm.

Mix the liquids and thoroughly incorporate the solids to make a stiff putty.

This is one of the best lutes, and is impervious to water, oils and other liquids. Very useful as a "pestle cement."

It takes several hours to stiffen and about a day to set completely.

No. 240.

Solution of Sodium Silicate, about 30° Bé.

Make into a stiff putty with whiting or barium sulphate. When magnesium carbonate is used the setting is so quick that it is hard to employ the mixture.

ACID-PROOF.

No. 241.

Litharge	80	Gm.
Red Lead	8	Gm.
Asbestos, ground	10	Gm.
Boiled Linseed Oil, a sufficient quan	titv.	

This lute will even stand nitric acid vapors.

No. 242.

BLACK PUTTY.

China Clay, Linseed Oil, Gas Tar, equal parts.

Mix intimately.

No. 243.

CHLORINE RESISTANT.

Portland Cement, Powdered Glass, Solution Sodium Silicate, equal parts.

The solution should be considerably diluted with water, so as not to set too fast.

PLASTER-OF-PARIS CEMENTS.

No. 244.

According to Sigmund Lehner, the addition of a little borax to the water regulates the setting of plaster and produces hard cements. A mixture of 12 water and 1 saturated solution of borax sets the plaster in 15 minutes. A mixture of 8 and 1 sets in one hour.

No. 245

MARINE GLUE.

Crude Rubber	1 part
Shellac	2 parts
Pitch	3 parts

Dissolve the rubber in carbon disulphide or oil of turpentine and carefully mix with the other ingredients previously melted.

This lute is applied warm to crevices, etc., and becomes firm, but not brittle when cold.

No. 246.

MACHINISTS' CEMENT.

cient carbon disulphide to produce the consistency of molasses, then mix with the oil and expose the mixture to the air for about 24 hours.

The red lead is added to form a putty. Iron oxide produces a superior cement, which is less brittle.

LEATHER CEMENTS.

No. 247.

American Isinglass, Glue, equal parts.

Soften in water for 10 hours and boil with tannic acid until the mass is sticky.

The surface of the joint should be roughened and the cement should be applied hot.

No. 248.

Gutta-Percha	
Pitch	1 part
Shellac	1 part
Olive Oil	1 part

Melt together.