## **RAPID-ACTING** oral inh: At the beginning of insulin Afrezza Loss of drug effect if inhaler is mishandled. See full labeling. a meal **CSII:** Change inj site at least every 3 days and reservoir at insulin aspart NovoLog SC Within 5-10mins SC: May mix with NPH insulin. Draw CSII

Administration

or immediately after

a meal

SC. IV\*: ≥3 times daily within

Individualize

30mins beforé a meal

Twice daily within

Individualize

a meal

of day

15mins béfore a meal

Once daily at any time

Once daily (PM) or

twice daily (12hrs apart)

Once daily at the

Individualize

without food

same time every day

Once daily at same

time each day, with or

Once daily within the

hour prior to first meal

Key: CSII = continuous subcutaneous insulin infusion;
\*IV to be used in a clinical setting under proper medical supervision. †IV and CSII administration for Humalog U-100 only.

Route

CSII<sup>†</sup>

Humulin R:OTC:SC, IV\*: Individualize

SC

Preparation

**SHORT-ACTING** 

INTERMEDIATE-ACTING

U-100

Novolin R

Novolin N

NovoLog

Mix 70/30

70/30

70/30

Novolin

Humalog

Mix 50/50

Humalog Mix 75/25

Tresiba

Levemir

Lantus Toujeo Humulin R

U-500

Xultophy

100/3.6

Soliqua

100/33

Humulin N:OTC:

SHORT- AND INTERMEDIATE-ACTING MIXTURES

OTC SC

 $\mathbf{R}$ 

R

R SC

R

SC

SC

SC

SC

SC

SC

Caution with changes in strength, manufacturer, preparation, species of insulin source.

insulin

insulin

(NPH)

isophane

suspension

insulin aspart

insulin aspart insulin isophane: Humulin

protamine/

suspension

insulin (R)

(NPH)/regular

insulin lispro

insulin lispro

LONG-ACTING insulin

insulin glargine: Basaglar

LONG-ACTING MIXTURES

protamine/

dealudec

insulin

detemir

insulin

insulin

degludec/

liraglutide

lixisenatide

NOTES

insulin glargine/

for full drug labeling.

injection

regular (R)

injection

regular (R)

Brand

INSULIN ADMINISTRATION

Mixing Insulins

Comments

before a meal NovoLog into syringe first. Inject immedi-I۷۶ ately after mixing. May dilute with Insulin least every 6 days. Diluting Medium for NovoLog to 1:10 (U-10) or 1:2 (U-50) concentrations. CSII: Do not dilute/mix with other insulins IV: Do not mix with other insulins

SC: May mix with NPH insulin. SC, Within 15mins before CSII a meal or 20mins Draw Apidra into syringe first. Inject immediately after mixing IV after starting a meal least every 2 days. CSII: Do not dilute/mix with other insulins

IV: Do not mix with other insulins

CSII: Change inj site at least insulin glulisine: Apidra every 48hrs and reservoir at insulin lispro Humalog SC, IV\*† Within 15mins before SC: May mix with Humulin N. Draw CSII: Change inj site at least  $\mathbf{R}$ every 3 days and reservoir at least every 7 days. Humalog into syringe first. Inject imme-

diately after mixing. May dilute with

STERILE DILUENT for Humalog to 1:10 (U-10) or 1:2 (U-50) concentrations. CSII: Do not dilute/mix with other insulins

May mix with Humalog or Humulin R.

Humulin N.

Draw clear insulin into syringe first then

May mix with other insulins. Draw clear

insúlin into syringe first then Novolin N.

Do not mix with other insulins

Do not change the ratio by adding NPH or Regular insulin to the vial. Use

separate insulin formulations (Novolin N

Do not dilute/mix with other insulins

See product label

and Novolin R).

See product label

or solutions

Rate of insulin absorption, onset and duration of action may be affected by the injection site, blood supply, temperature, exercise, and other variables.

Not an inclusive list of medications and/or dosing instructions. Please see drug monograph at www.eMPR.com and/or contact company

Within 15mins before : Do not mix with any other insulins

**SC:** May mix with longer-acting human Use syringes marked with insulins. Draw clear insulin into syringe U-100.

Rotate vial to mix. Should

look uniformly cloudy. Use

syringes marked with U-100.

Rotate vial to mix. Should look uniformly cloudy. Use syringes marked with U-100 or U-40.

Inject rapidly over 2-4secs to avoid clogging needle tip.

Roll vial, prefilled syringe 10

times until uniformly cloudy.

Rotate vial to mix. Should

look uniformly cloudy. Use

syringes marked with U-100

Rotate vial to mix. Should look

uniformly cloudy. Use syringes marked with U-100 or U-40.

Inject rapidly over 2-4secs to avoid clogging needle tip.

Rotate vial to mix. Should

Should look clear, colorless

Should look clear, colorless.

Should look clear, colorless.

Caution with dosage. Should

look water-clear. Use with

Should look clear, colorless

Should look clear, colorless to

(Rev. 10/2017)

U-500 insulin syringes.

almost colorless.

look uniformly cloudy.