



Practical Considerations for Selecting a GLP-1 RA

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Indication Differences Among GLP-1 RAs: Prescribing Information¹

▶ Indications	DULA	EXN BID	EXN ER	LIRA	SEMA inj	SEMA oral	TZP
Adjunct to diet and exercise to improve glycemic control in adults with T2DM	✓	✓	✓	✓	✓	✓	✓
Adjunct to diet and exercise to improve glycemic control in patients aged ≥10 years with T2DM	✓	—	✓	✓	—	—	—
Reduce risk of MACE in adults with T2DM and established CVD	✓	—	—	✓	✓	—	—
Reduce risk of MACE in adults with T2DM and multiple CV risk factors	✓	—	—	—	—	—	—



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Clinical Characteristics of GLP-1 RAs¹

	GLP-1 RA	Delivery Format (Device)	Frequency	Starting Dose	Next Higher Dose	Next Higher Dose	Next Higher Dose	Next Higher Dose	Pen Type	Screw-On Needle	Need Separate Needle Rx
Exendin-4–Based	Exenatide BID	Injectable (pen)	Twice daily	5 mcg	10 mcg	—	—	—	Multidose	✓	✓
	Exenatide ER (subQ)	Injectable (autoinjector)	Weekly	2 mg	—	—	—	—	Single use	—	—
Human GLP-1–Based	Liraglutide (subQ)	Injectable (pen)	Daily	0.6 mg ^a	1.2 mg	1.8 mg	—	—	Multidose	✓	✓
	Dulaglutide (subQ)	Injectable (autoinjector)	Weekly	0.75 mg	1.5 mg	3 mg	4.5 mg	—	Single use	—	—
	Semaglutide (subQ)	Injectable (pen)	Weekly	0.25 mg ^a	0.5 mg	1 mg	2 mg	—	Multidose	✓	—
	Semaglutide (oral)	Oral (tablet)	Daily	3 mg ^a	7 mg	14 mg	—	—	N/A	N/A	N/A
	Tirzepatide	Injectable (autoinjector)	Weekly	2.5 mg ^a	5 mg	10.5 mg	12.5 mg	15 mg	Single use	—	—

^a Subtherapeutic dose for treatment initiation only



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Meta-Analysis of GLP-1 RA CVOTs in T2DM and at High Risk for CVD²

Outcome	HR (95% CI)	NNT (95% CI)	P	Heterogeneity
MACE-3	0.86 (0.80, 0.93)	65 (45, 130)	< .0001	Marginal
CV death	0.87 (0.80, 0.94)	163 (103, 353)	.001	No
Fatal and non-fatal MI	0.90 (0.83, 0.98)	175 (103, 878)	.02	No
Fatal and non-fatal stroke	0.83 (0.76, 0.92)	198 (140, 421)	.0002	No
All-cause mortality	0.88 (0.82, 0.94)	114 (76, 228)	.0001	No
Hospital admission for heart failure	0.89 (0.82, 0.98)	258 (158, 1,422)	.013	No
Composite kidney outcome, including macroalbuminuria	0.79 (0.73, 0.87)	47 (37, 77)	< .0001	Marginal
Worsening of kidney function	0.86 (0.72, 1.02)	241 (120, 1,694)	.089	No
Adverse Event	OR (95% CI)	P	Heterogeneity	
Severe hypoglycemia	0.90 (0.74, 1.10)	.32	Yes	
Retinopathy	1.07 (0.92, 1.25)	.39	Marginal	
Pancreatitis	1.02 (0.77, 1.36)	.88	No	
Pancreatic cancer	0.98 (0.56, 1.70)	.93	No	

Benefits and Risks of GLP-1–Based Agents for T2DM³

Interventions	OR, 95% CI								
	All Cause Death	CV Death	Nonfatal MI	Nonfatal Stroke	HHF	ESRD ^a	HRQOL Score	Severe Hypoglycemia	Drug-Specific AEs
GLP-1 RAs	0.88 (0.82 to 0.93)	0.87 (0.81 to 0.94)	0.91 (0.81 to 0.98)	0.85 (0.77 to 0.94)	0.91 (0.83 to 0.99)	0.83 (0.75 to 0.92)	0.17 (0.07 to 0.27)	0.98 (0.90 to 1.06)	Severe GI events 1.97 (1.39 to 2.80)
Tirzepatide	0.83 (0.48 to 1.44)	1.00 (0.35 to 2.85)	0.69 (0.08 to 6.10)	–	0.63 (0.16 to 2.39)	0.68 (0.09 to 4.84)	0.39 (0.13 to 0.65)	1.13 (0.42 to 3.02)	Severe GI events 4.59 (1.89 to 11.14)

High to Moderate Certainty Evidence	Low to Very Low Certainty Evidence
Among the most effective	Possibly among the most effective
Among the intermediate effective	Possibly among the intermediate effective
Not convincingly different from the standard treatment	Possibly not convincingly different from the standard treatment
Among the intermediate harmful	Possibly among the intermediate harmful
Among the most harmful	Possibly among the most harmful

Interventions	MD Δ Body Weight, kg (95% CI)
Tirzepatide	-8.57 (-9.40 to -7.75)
Semaglutide (subQ)	-4.62 (-5.22 to -4.03)
Semaglutide (oral)	-2.98 (-3.66 to -2.29)
Efpeglenatide ^b	-2.59 (-4.40 to 0.78)
Liraglutide	-2.21 (-2.58 to -1.85)
SGLT2 inhibitors	-1.98 (-2.18 to -1.78)
Exenatide BID	-1.77 (-2.47 to -1.07)
Dulaglutide	-1.40 (-1.93 to -0.88)
Exenatide ER	-1.05 (-1.67 to -0.42)
Metformin	-0.83 (-1.16 to -0.51)
α-glucosidase inhibitors	-0.38 (-0.80 to 0.04)
DPP-4 inhibitors	0.28 (0.11 to 0.46)
Bolus insulin	1.01 (0.24 to 1.79)
Meglitinides	1.26 (0.58 to 1.94)
Sulfonylureas	1.78 (1.50 to 2.06)
Basal insulin	2.15 (1.74 to 2.56)
Thiazolidinediones	2.81 (2.55 to 3.07)
Basal bolus insulin	3.26 (2.10 to 4.41)
Standard treatments ^c	Reference

^a ESRD defined as composite of long-term dialysis, kidney transplantation, sustained estimated glomerular filtration rate <15 mL per min per 1.73 m² for ≥30 days, sustained % decline in eGFR of ≥40% for ≥30 days or a doubling of SCr, or renal death; effects on ESRD rated down owing to indirectness. ^b Investigational agent not approved by the US FDA. ^c Standard of care treatments include other glucose-lowering agents from other classes and placebo with lifestyle modifications.

1. <https://www.accessdata.fda.gov/scripts/cder/daf/>. 2. Sattar N et al. *Lancet Diabetes Endocrinol*. 2021;9:653–662. 3. Shi Q et al. *BMJ*. 2023;381:e074068.



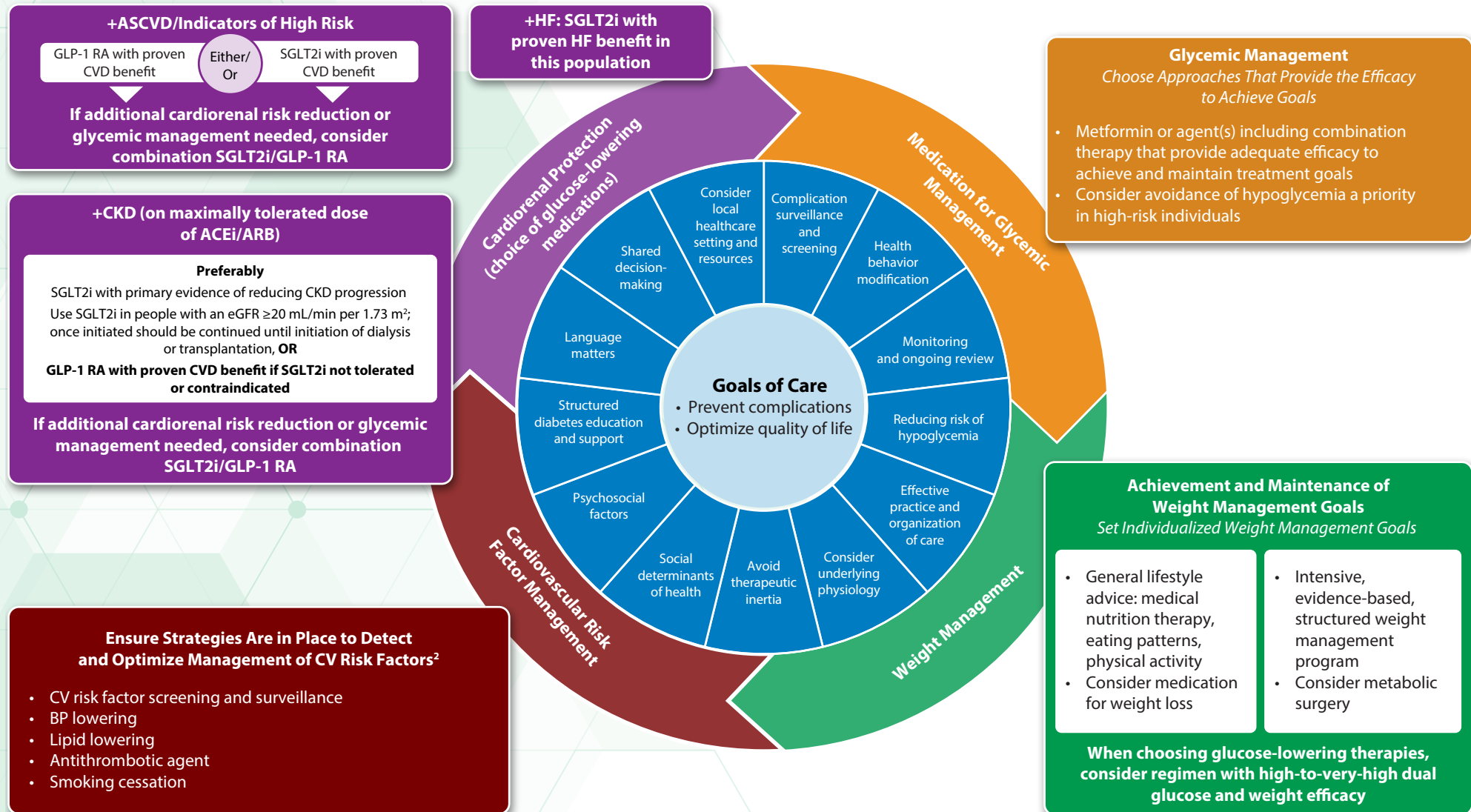
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ADA/EASD 2022 Consensus Guidelines for the Management of T2DM¹

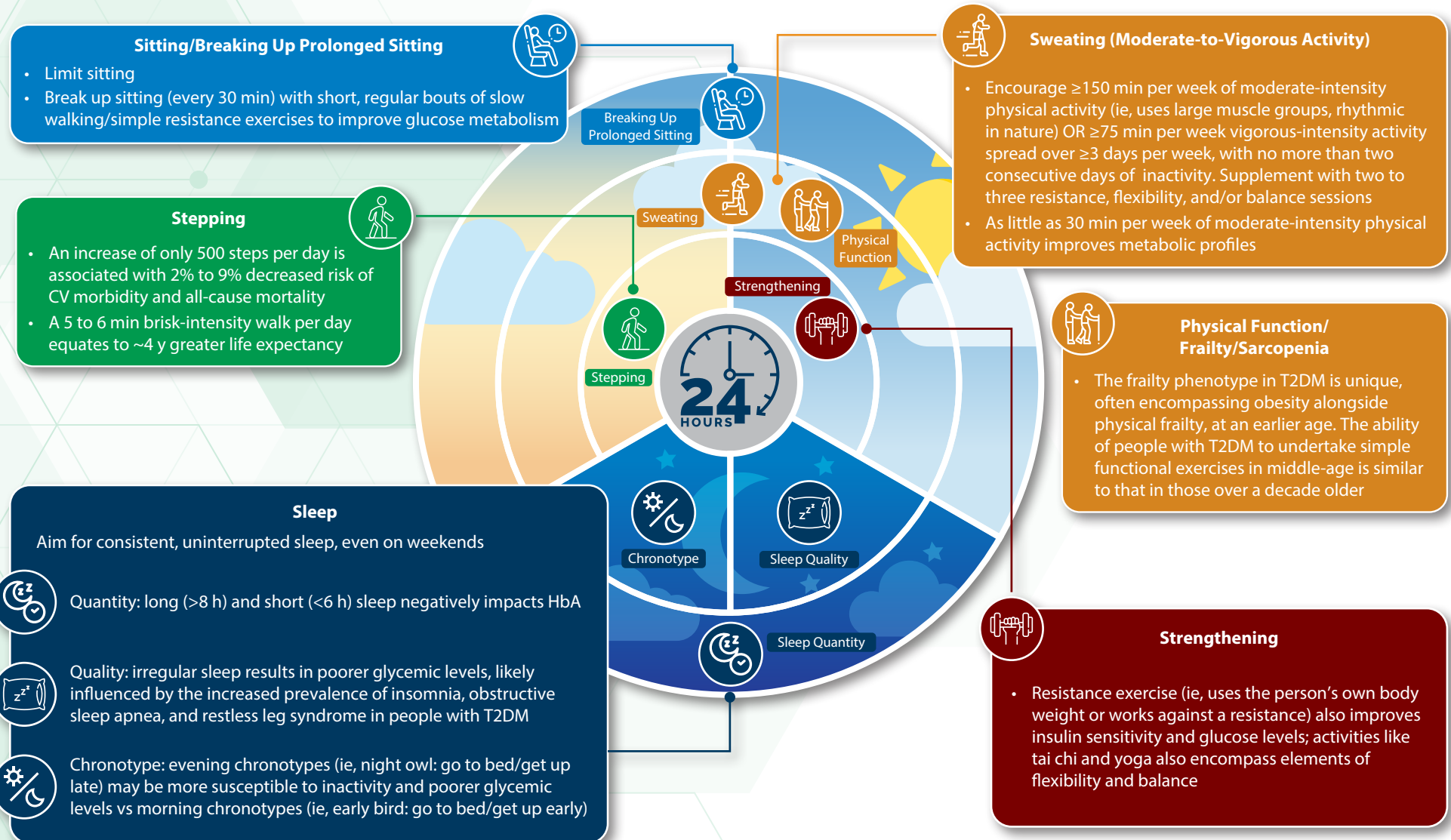
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Holistic Person-Centered Approach



Impact of Physical Behaviors on Cardiometabolic Health





Applying the “3Es” to Manage GI Adverse Events of GLP-1 RAs¹

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The First Es: Education/Explanation and Escalation

Education and Explanation

Patient consultation and counseling

- Counsel patients on
 - The potential for GI AEs and their typically mild-to-moderate, temporary nature
 - Dietary modifications: recommend reducing meal size, being mindful to stop eating once full, avoiding eating when not hungry, avoiding high-fat or spicy food, and moderating alcohol intake
- Discuss any current GI symptoms, treat if needed, and counsel the patient on how to manage any potential worsening symptoms after GLP-1 RA initiation

Escalation to an Appropriate Dose

Initiation with gradual dose escalation

- Follow the gradual dose escalation strategy recommended in the GLP-1 RA prescribing information
- Consider slower dose escalation for patients reporting challenges with GI symptoms in the first few weeks of treatment

If patient presents with GI adverse events ... (continued next page)



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The Final E: Effective Management

Effective Management of GI AEs

