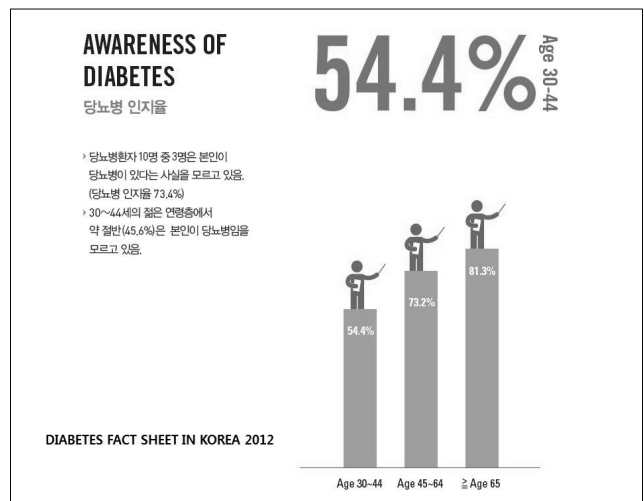
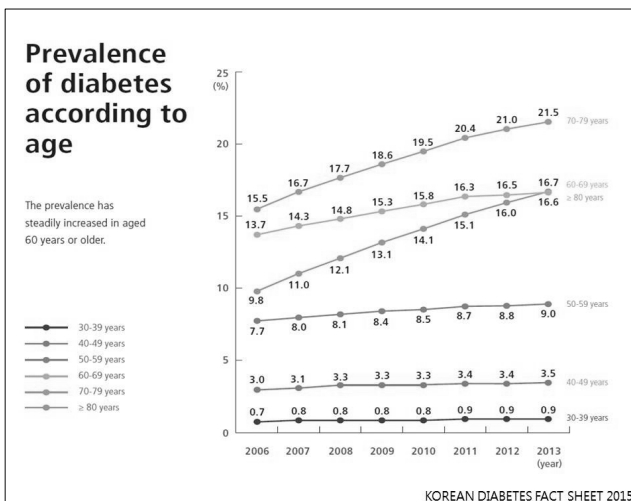
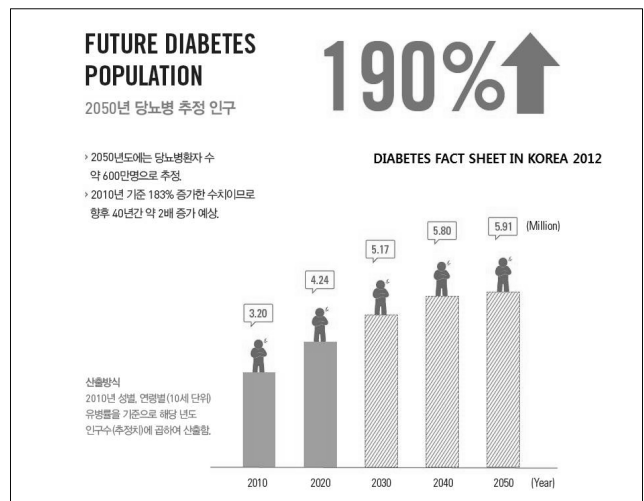
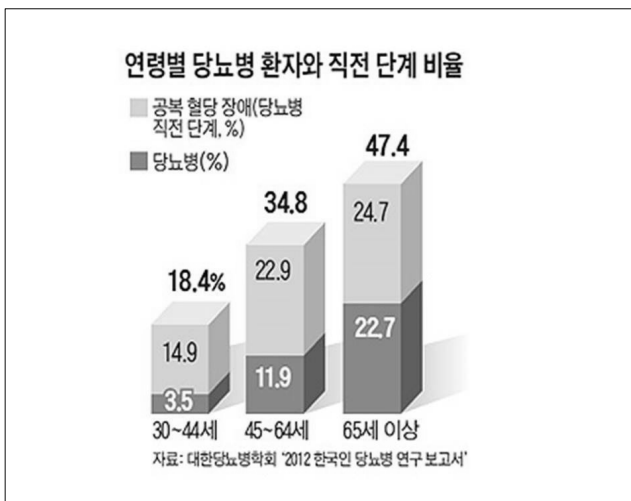
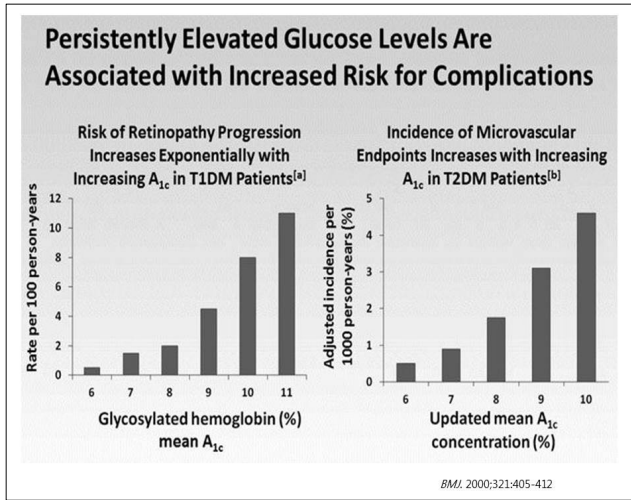


일차진료에서 당뇨병 환자의 최신 약물요법 가이드

이 덕 철

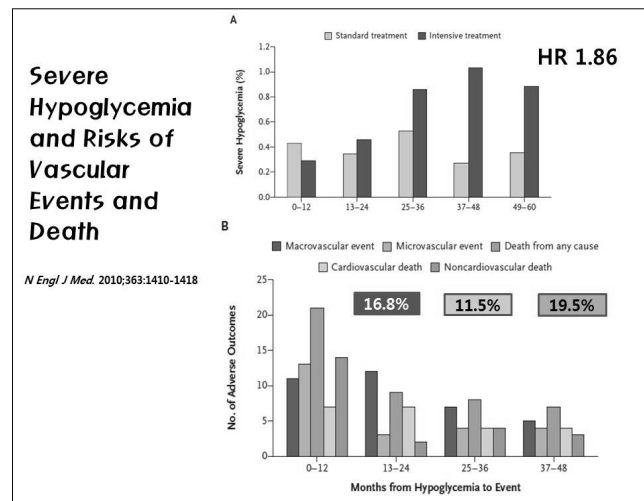
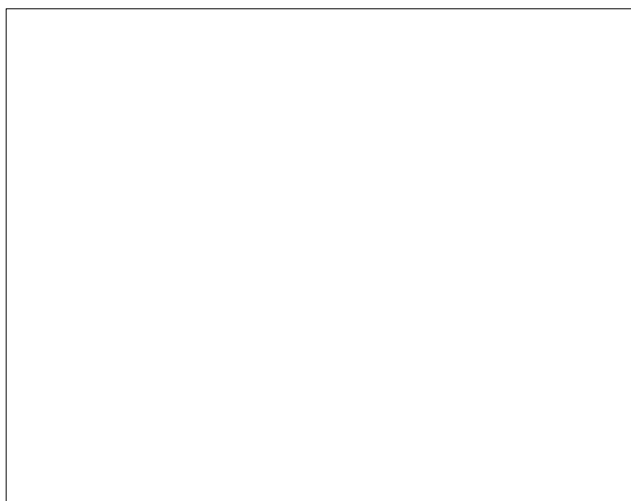
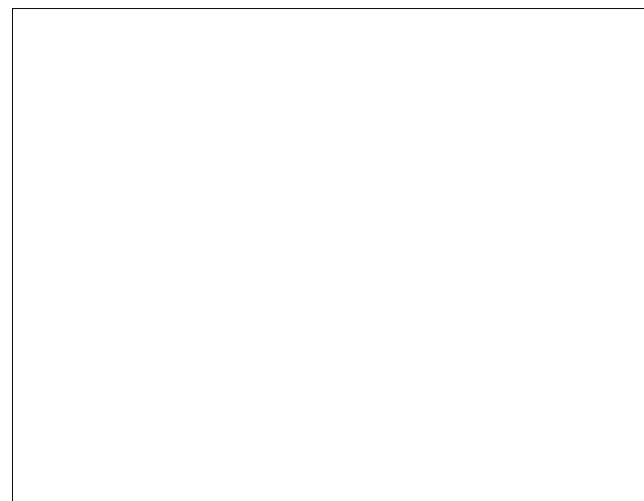
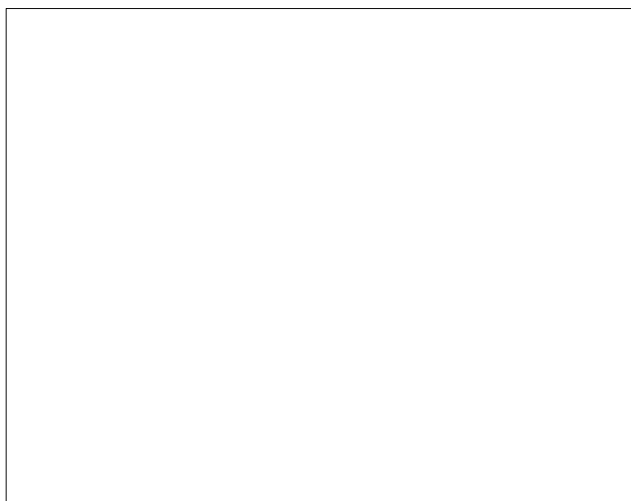
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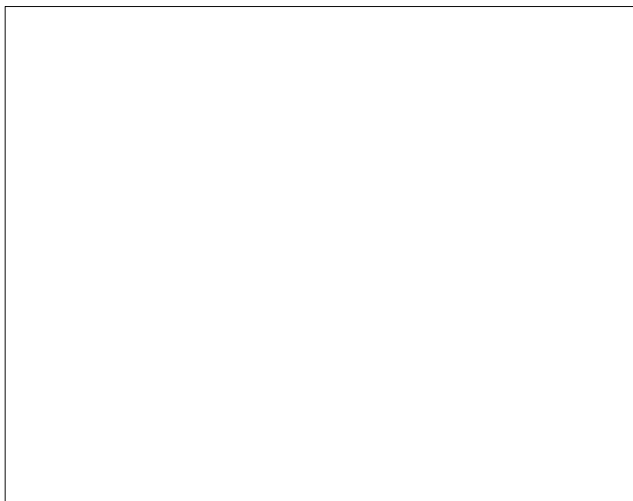
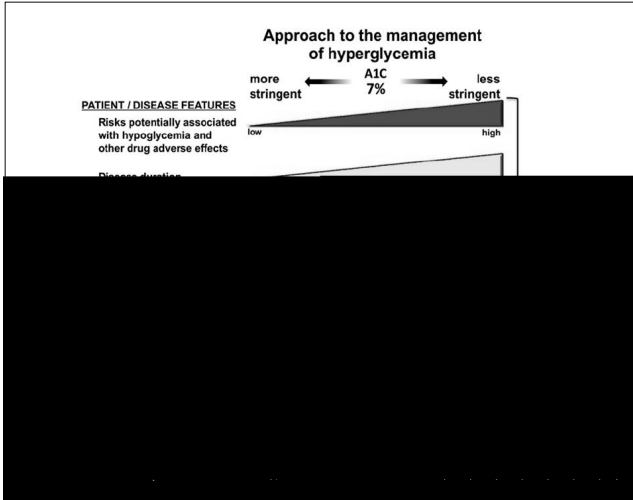




Impact of Intensive Therapy for T2DM Summary of Major Clinical Trials

Study	Microvasc		CVD		Mortality	
	↓	↓	↔	↓	↔	↓
UKPDS	↓	↓	↔	↓	↔	↓
ACCORD	↓		↔		↑	





- ### 국내에서 사용 가능한 당뇨병약제, 9가지
- **Biguanides**
 - metformin
 - **Sulfonylureas**
 - **DPP-IV inhibitors**
 - Sitagliptin (januvia®)
 - Saxagliptin (onglyza®)
 - Linagliptin (trajenta®)
 - Vildagliptin (galvus®)
 - Alogliptin
 - **GLP-1 receptor agonists**
 - Exenatide (Byetta®)
 - Liraglutide (victoza®)
 - **Meglitinides**
 - **Thiazolidinediones (TZDs)**
 - Only Pioglitazone
 - **α-Glucosidase inhibitors**
 - Acarbose, Miglitol,
 - **SGLT-2 inhibitors**
 - **Insulin**
 - **Bile acid sequestrants**
 - Colesevelam
 - **Dopamine-2 agonists**
 - Bromocriptine

성분명 (상표명)	장점	단점
Biguanide		
Metformin (글루코팍지정®)	체중 불변, 저혈당 없음, 심혈관 합병증 및 사망률 감소, 내구성	위장관 부작용, 매우 드물게 젓산 산증, 비타민 B12 결핍, 신장기능 저하시 금기
Sulfonylurea (2세대)		
Glibenclamide (다오날정®)		
Glyburide (Micronase®)	일반적으로 잘 수용, 신속한 효과,	저혈당 위험 증가, 체중 증가, 혈당강하
Glipizide (Glucotrol®)	심혈관 합병증 및 사망률 감소	효과 내구성 저하
Gliclazide (다이미크통정®)		
Glimepiride (아마일정®)		
Meglitinides		
Repaglinide (프린단정®)	신속한 효과, 식후 혈당 강하	저혈당, 체중 증가, 자주 복용
Nateglinide (Starlix®)		
Thiazolidinediones (Glitazones)		
Pioglitazone (엑토스정®)	저혈당 없음, HDL-cholesterol 상승,	체중 증가, 부종, 심부전, 골결
Lobeglitazone (듀비에정®)	중성지방 저하	
α-Glucosidase inhibitor		
Acarbose (글루코바이정®)	심혈관 질환 위험 감소, 식후 혈당	소화장애 (장내가스, 설사), 자주 복용
Miglitol (글리톨정®)	저하, 저혈당 위험 감소, 체중 불변	
Voglibose (베이스정®)		

성분명 (상표명)	장점	단점
GLP-1 receptor agonist		
Exenatide (바이에타정®)	체중 감소, β 세포 수 및 기능 증가	소화관 부작용 (구역, 구토, 설사), 해당염 사례 보고
Liraglutide (Victoza®)		주사제
DPP-4 inhibitors		
Sitagliptin (자누비아®)		
Vildagliptin (가브스정®)		
Saxagliptin (온글라이저정®)	저혈당 없음, 체중 불변	간혹 두드러기, 혈관부종, 해당염 사례 보고
Linagliptin (트라젠타정®)		
Sodium glucose co-transporter type2 (SGLT2) inhibitors		
dapagliflozin (포시기정®)	체중감소, 저혈당 위험 감소,	생식기 감염증, 하부 요로감염
canagliflozin (Invokana™)	혈압감소	
empagliflozin (Jardiance®)		
lpravgliflozin (Suglat®)		
Bile acid Sequestrants		
Colesevelam (Welchol™)	저혈당 없음, LDL-콜레스테롤 감소	변비, 중성지방 농도 상승, 다른 약제 흡수 방해
Dopamine-2 agonists		
Bromocriptine (팔로멜정®)	저혈당 없음	어지러움, 설사, 구역, 피로감, 비염, 장기적 안전성 확립 안됨

PROFILES OF ANTIDIABETIC MEDICATIONS

	MET	GLP-1 RA	SGLT-2i	DPP-4i	AGI	TZD	SU	COLSVL	BCR-QR	INSULIN	PRAML
HYP0	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Moderate/Severe	Neutral	Neutral	Moderate to Severe	Neutral
WEIGHT	Slight Loss	Loss	Loss	Neutral	Neutral	Gain	Gain	Neutral	Neutral	Gain	Loss
RENAL/GU	Contra-indicated CKD Stage 3&4,5	Exenatide Contra-indicated CCI < 30	Gentil Mycotic Infections	Dose Adjustment May be Necessary (Except Linagliptin)	Neutral	May Worsen Fluid Retention	More Hypo Risk	Neutral	Neutral	More Hypo Risk & Fluid Retention	Neutral
GI Sx	Moderate	Moderate	Neutral	Neutral	Moderate	Neutral	Neutral	Mild	Moderate	Neutral	Moderate
CHF	Neutral	Neutral	Neutral	Neutral	Moderate	Neutral	?	Neutral	Safe	Neutral	Neutral
CVD	Benefit	Benefit	Increased LDL	Neutral	Neutral	Neutral	?	Neutral	Safe	Neutral	Neutral
BONE	Neutral	Neutral	Neutral	Neutral	Neutral	Moderate Bone Loss	Neutral	Neutral	Neutral	Neutral	Neutral

Few adverse events or possible benefits
 Use with caution
 Likelihood of adverse effects

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