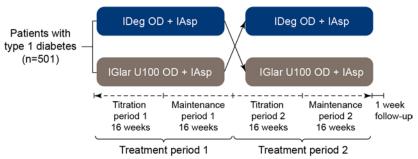
Supplementary Online Content

Lane W, Bailey TS, Gerety G, et al. Effect of insulin degludec vs insulin glargine u100 on hypoglycemia in patients with type 1 diabetes: the SWITCH 1 randomized clinical trial. *JAMA*. doi:10.1001/jama.2017.7115

- eFigure 1. Trial design
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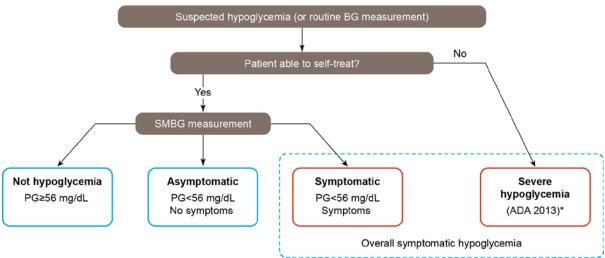
This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. Trial design



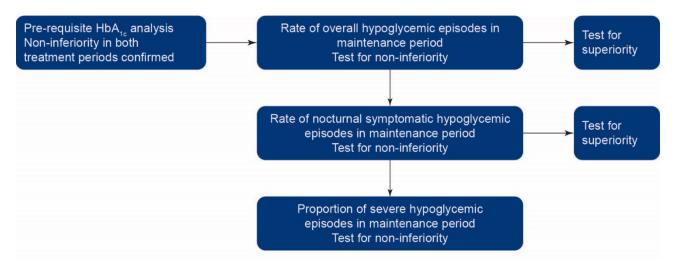
IAsp, insulin aspart; IDeg, insulin degludec; IGlar U100, insulin glargine 100 U/mL; OD, once daily

eFigure 2. Hypoglycemia definition used in this trial

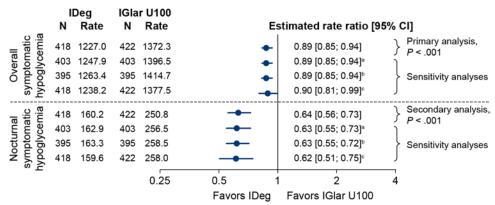


*An episode requiring assistance of another person to actively administer carbohydrate, glucagon, or take other corrective actions and/or neurological recovery following the return of plasma glucose to normal (ADA 2013; Seaquist et al. *Diabetes Care*. 2013;36(5):1384-1395). All episodes of severe hypoglycemia were confirmed by an external adjudication committee. Nocturnal episodes were defined as episodes occurring between 00:01 and 05:59 (both inclusive). Blue dashed box signifies endpoints included as confirmatory endpoints. To convert glucose to mmol/L, multiply by 0.0555. ADA, American Diabetes Association; BG, blood glucose; PG, plasma glucose; SMBG, self-measured blood glucose.

eFigure 3: Hierarchical analysis model



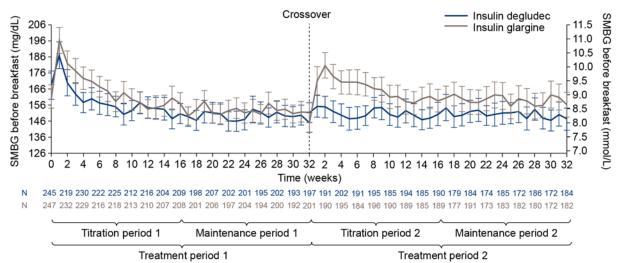
eFigure 4. Sensitivity analyses for the number of overall symptomatic and nocturnal symptomatic hypoglycemic episodes in the maintenance periods



All episodes of severe hypoglycemia were confirmed by external adjudication committee. Estimated rates are least squares mean in events per 100 PYE; N, number of patients contributing to the analysis. ^aPoisson model on subset of patients with exposure in both maintenance periods; ^bPoisson model on the completer analysis set; ^cNegative binomial model.

CI, confidence interval; IDeg, insulin degludec; IGlar U100, insulin glargine 100 U/mL; PYE, patient-years of exposure.

eFigure 5: Self-measured blood glucose (SMBG) over time



Data are mean \pm 95% confidence intervals.

eTable 1. Basal insulin titration algorithm

Lowest pre-breakfast blood glucose measurement ^a		Adjustment
mg/dL	mmol/L	Units
<56	<3.1	-4
56–70	3.1–3.9	-2
71–90	4.0–5.0	0
91–180	5.1–10.0	+2
181–270	10.1–15.0	+4
>270	>15.0	+6

^aOnce-weekly titration based on the lowest of 3 consecutive days' measurements.

eTable 2. Bolus insulin titration algorithm

Preprandial blood glucose measurement ^a		Adjustment	Rules for adjustment
mmol/L	mg/dL	Units	
<4.0	<71	-1	≥1 SMBG below target
4.0–6.0	71–108	0	0–1 SMBG above target No SMBG below target
>6.0	>108	+1	≥1 SMBG above target No SMBG below target

^aTwice-weekly titration based on the last 3 or 4 previous days. SMBG, self-measured blood glucose.

 $eTable\ 3.\ Medical\ Dictionary\ for\ Regulatory\ Activities\ (MedDRA)\ predefined\ search\ of\ safety\ data$

Standardized MedDRA queries (SMQ)	Preferred term	Term scope text
Accidents and injuries (SMQ)	Abdomen crushing	Narrow
Accidents and injuries (SMQ)	Abdominal injury	Narrow
Accidents and injuries (SMQ)	Accident	Narrow
Accidents and injuries (SMQ)	Accident at home	Narrow
Accidents and injuries (SMQ)	Accident at work	Narrow
Accidents and injuries (SMQ)	Accidental death	Narrow
Accidents and injuries (SMQ)	Acetabulum fracture	Narrow
Accidents and injuries (SMQ)	Acoustic shock	Narrow
Accidents and injuries (SMQ)	Acrotrophodynia	Broad
Accidents and injuries (SMQ)	Adrenal gland injury	Narrow
Accidents and injuries (SMQ)	Anal injury	Narrow
Accidents and injuries (SMQ)	Animal bite	Broad
Accidents and injuries (SMQ)	Ankle fracture	Narrow
Accidents and injuries (SMQ)	Aortic injury	Narrow
Accidents and injuries (SMQ)	Aortic rupture	Narrow
Accidents and injuries (SMQ)	Aponeurosis contusion	Narrow
Accidents and injuries (SMQ)	Arterial injury	Narrow
Accidents and injuries (SMQ)	Arterial rupture	Narrow
Accidents and injuries (SMQ)	Atrial rupture	Narrow
Accidents and injuries (SMQ)	Atypical femur fracture	Narrow
Accidents and injuries	Atypical fracture	Narrow

(SMQ)		
Accidents and injuries (SMQ)	Avulsion fracture	Narrow
Accidents and injuries (SMQ)	Axillary nerve injury	Narrow
Accidents and injuries (SMQ)	Back injury	Narrow
Accidents and injuries (SMQ)	Bile duct stenosis traumatic	Narrow
Accidents and injuries (SMQ)	Bladder injury	Narrow
Accidents and injuries (SMQ)	Bladder perforation	Narrow
Accidents and injuries (SMQ)	Blast injury	Narrow
Accidents and injuries (SMQ)	Blindness traumatic	Narrow
Accidents and injuries (SMQ)	Bone contusion	Narrow
Accidents and injuries (SMQ)	Bone fissure	Narrow
Accidents and injuries (SMQ)	Bone fragmentation	Narrow
Accidents and injuries (SMQ)	Bowman's membrane injury	Narrow
Accidents and injuries (SMQ)	Brachial plexus injury	Narrow
Accidents and injuries (SMQ)	Brain contusion	Narrow
Accidents and injuries (SMQ)	Breast injury	Narrow
Accidents and injuries (SMQ)	Burn oral cavity	Narrow
Accidents and injuries (SMQ)	Burns first degree	Narrow
Accidents and injuries (SMQ)	Burns fourth degree	Narrow Narrow
Accidents and injuries (SMQ)	Burns second degree	Narrow
Accidents and injuries (SMQ)	Burns third degree	
Accidents and injuries (SMQ)	Bursa injury	Narrow
Accidents and injuries (SMQ)	Buttock crushing	Narrow
Accidents and injuries	Cardiac contusion	Narrow

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Accidents and injuries Conjunctival abrasion	Narrow
(SMQ)	Narrow

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(SMQ)	Conjunctival facetation	Ivariow
Assidents and injuries	Contusion	Narrow
Accidents and injuries	Contusion	Narrow
(SMQ)		
Accidents and injuries	Corneal abrasion	Narrow
(SMQ)		
Accidents and injuries	Corneal perforation	Broad
(SMQ)		
Accidents and injuries	Corrosive oropharyngeal injury	Narrow
(SMQ)		
Accidents and injuries	Cranial nerve injury	Narrow
I =	Cramar nerve injury	Ivanow
(SMQ)	C . 1 1	N
Accidents and injuries	Craniocerebral injury	Narrow
(SMQ)		
Accidents and injuries	Crush injury	Narrow
(SMQ)		
Accidents and injuries	Crush syndrome	Narrow
(SMQ)		
Accidents and injuries	Crushing injury of trunk	Narrow
(SMQ)	ordining injury or traine	T (MITO)
Accidents and injuries	Deafness traumatic	Narrow
	Dearness traumatic	Narrow
(SMQ)	Descritation	NI
Accidents and injuries	Decapitation	Narrow
(SMQ)		
Accidents and injuries	Deep dissecting hematoma	Broad
(SMQ)		
Accidents and injuries	Diaphragmatic injury	Narrow
(SMQ)		
Accidents and injuries	Diaphragmatic rupture	Narrow
(SMQ)		
Accidents and injuries	Diffuse axonal injury	Narrow
(SMQ)	Diffuse axonar injury	runow
	Dislocation of sternum	Namayy
Accidents and injuries	Distocation of sternum	Narrow
(SMQ)	Did die	27
Accidents and injuries	Dislocation of vertebra	Narrow
(SMQ)		
Accidents and injuries	Drowning	Narrow
(SMQ)		
Accidents and injuries	Dural tear	Narrow
(SMQ)		
Accidents and injuries	Ear abrasion	Narrow
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Accidents and injuries	Ear canal abrasion	Narrow
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(SMQ)	Engage 1 in item	NI
Accidents and injuries	Ear canal injury	Narrow

(SMQ)		
Accidents and injuries (SMQ)	Ear canal stenosis traumatic	Narrow
Accidents and injuries (SMQ)	Ear injury	Narrow
Accidents and injuries (SMQ)	Electric injury	Narrow
Accidents and injuries (SMQ)	Electric shock	Narrow
Accidents and injuries (SMQ)	Electrocution	Narrow
Accidents and injuries (SMQ)	Enophthalmos traumatic	Narrow
Accidents and injuries (SMQ)	Epidural hemorrhage	Broad
Accidents and injuries (SMQ)	Epiphyseal fracture	Narrow
Accidents and injuries (SMQ)	Epiphyseal injury	Narrow
Accidents and injuries (SMQ)	Epiphysiolysis	Broad
Accidents and injuries (SMQ)	Excoriation	Broad
Accidents and injuries (SMQ)	External genitalia crushing	Narrow
Accidents and injuries (SMQ)	Extradural hematoma	Broad
Accidents and injuries (SMQ)	Eye burns	Narrow
Accidents and injuries (SMQ)	Eye contusion	Narrow
Accidents and injuries (SMQ)	Eye injury	Narrow
Accidents and injuries (SMQ)	Eye luxation	Broad
Accidents and injuries (SMQ)	Eyeball avulsion	Narrow
Accidents and injuries (SMQ)	Eyelash injury	Narrow
Accidents and injuries (SMQ)	Eyelid contusion	Narrow
Accidents and injuries (SMQ)	Eyelid hematoma	Narrow
Accidents and injuries (SMQ)	Eyelid injury	Narrow
Accidents and injuries	Face crushing	Narrow

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Accidents and injuries	Face injury	Narrow
_	race injury	Nariow
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Accidents and injuries	Facial bones fracture	Narrow
(SMQ)		
Accidents and injuries	Facial nerve injury due to birth	Narrow
(SMQ)	trauma	
Accidents and injuries	Fall	Narrow
(SMQ)		
Accidents and injuries	Femoral neck fracture	Narrow
(SMQ)	1 omoral need made	T (MITO)
Accidents and injuries	Femoral nerve injury	Narrow
I =	Temoral herve injury	Narrow
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Accidents and injuries	Femur fracture	Narrow
(SMQ)		
Standardized MedDRA	Preferred term	Term scope text
queries (SMQ)		
Accidents and injuries	Fibula fracture	Narrow
(SMQ)		
Accidents and injuries	Flail chest	Narrow
(SMQ)		
Accidents and injuries	Foot fracture	Narrow
(SMQ)		1 (4421 5)
Accidents and injuries	Forearm fracture	Narrow
(SMQ)	1 orearm mactare	T turi o w
Accidents and injuries	Foreign body aspiration	Broad
I =	Toleigh body aspiration	Bload
(SMQ)	Fourier hadrein ave	Nomer
Accidents and injuries	Foreign body in eye	Narrow
(SMQ)		
Accidents and injuries	Fracture	Narrow
(SMQ)		
Accidents and injuries	Fracture displacement	Narrow
(SMQ)		
Accidents and injuries	Fracture of clavicle due to birth	Narrow
(SMQ)	trauma	
Accidents and injuries	Fracture of penis	Narrow
(SMQ)		
Accidents and injuries	Fracture pain	Broad
(SMQ)		
Accidents and injuries	Fractured coccyx	Narrow
(SMQ)	Tractated coccyx	TAMIO W
	Fractured ischium	Normany
Accidents and injuries	Fractured Ischium	Narrow
(SMQ)		37
Accidents and injuries	Fractured sacrum	Narrow
(SMQ)		
Accidents and injuries	Fractured skull depressed	Narrow

(SMQ)		
Accidents and injuries	Frostbite	Broad
(SMQ)	Trostotte	Diodd
Accidents and injuries	Gallbladder injury	Narrow
_	Ganbladder injury	Namow
(SMQ)	C 111.1 1.1 C	D 1
Accidents and injuries	Gallbladder perforation	Broad
(SMQ)		
Accidents and injuries	Gastrointestinal injury	Narrow
(SMQ)		
Accidents and injuries	Genital contusion	Narrow
(SMQ)		
Accidents and injuries	Genital injury	Narrow
(SMQ)		11,00110
Accidents and injuries	Gingival injury	Narrow
(SMQ)	Omgrvar mjury	Narrow
	C1	NI
Accidents and injuries	Glaucoma traumatic	Narrow
(SMQ)		
Accidents and injuries	Greenstick fracture	Narrow
(SMQ)		
Accidents and injuries	Gun shot wound	Narrow
(SMQ)		
Accidents and injuries	Hematuria traumatic	Narrow
(SMQ)		
Accidents and injuries	Hemothorax	Broad
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Accidents and injuries	Hand fracture	Narrow
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Accidents and injuries	Head injury	Narrow
•	Tread injury	Nariow
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Accidents and injuries	Heart injury	Broad
(SMQ)		
Accidents and injuries	Heat cramps	Broad
(SMQ)		
Accidents and injuries	Heat exhaustion	Broad
(SMQ)		
Accidents and injuries	Heat stroke	Broad
(SMQ)		
Accidents and injuries	Hepatic rupture	Narrow
(SMQ)		
Accidents and injuries	Hernia perforation	Narrow
	Tierina perioration	Namow
(SMQ)	III a far at	NI
Accidents and injuries	Hip fracture	Narrow
(SMQ)		
Accidents and injuries	Human bite	Broad
(SMQ)		
Accidents and injuries	Humerus fracture	Narrow

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Accidents and injuries Laceration Narrow
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Standardized MedDRA Preferred term Term scope text

queries (SMQ)		
Accidents and injuries (SMQ)	Laryngeal injury	Narrow
Accidents and injuries (SMQ)	Lens dislocation	Broad
Accidents and injuries (SMQ)	Lenticular injury	Narrow
Accidents and injuries (SMQ)	Ligament injury	Narrow
Accidents and injuries (SMQ)	Ligament rupture	Narrow
Accidents and injuries (SMQ)	Ligament sprain	Narrow
Accidents and injuries (SMQ)	Limb crushing injury	Narrow
Accidents and injuries (SMQ)	Limb fracture	Narrow
Accidents and injuries (SMQ)	Limb injury	Narrow
Accidents and injuries (SMQ)	Limb reattachment surgery	Narrow
Accidents and injuries (SMQ)	Limb traumatic amputation	Narrow
Accidents and injuries (SMQ)	Lip injury	Narrow
Accidents and injuries (SMQ)	Liver contusion	Narrow
Accidents and injuries (SMQ)	Liver injury	Narrow
Accidents and injuries (SMQ)	Lower limb fracture	Narrow
Accidents and injuries (SMQ)	Lumbar vertebral fracture	Narrow
Accidents and injuries (SMQ)	Lumbosacral plexus injury	Narrow
Accidents and injuries (SMQ)	Lung perforation	Broad
Accidents and injuries (SMQ)	Lymphatic duct injury	Narrow
Accidents and injuries (SMQ)	Median nerve injury	Narrow
Accidents and injuries (SMQ)	Meniscus cyst	Narrow
Accidents and injuries (SMQ)	Meniscus injury	Narrow
Accidents and injuries	Metallosis of globe	Broad

(SMQ)		
Accidents and injuries	Mouth injury	Narrow
I ~	Wouth injury	Narrow
(SMQ)	N/ 1/1 C /	N
Accidents and injuries	Multiple fractures	Narrow
(SMQ)		
Accidents and injuries	Multiple injuries	Narrow
(SMQ)		
Accidents and injuries	Muscle contusion	Narrow
(SMQ)		
Accidents and injuries	Muscle injury	Narrow
(SMQ)	iviascie injury	
	Muscle reattachment	Nomer
Accidents and injuries	Muscle reattachment	Narrow
(SMQ)		
Accidents and injuries	Muscle rupture	Narrow
(SMQ)		
Accidents and injuries	Muscle strain	Narrow
(SMQ)		
Accidents and injuries	Musculocutaneous nerve injury	Narrow
(SMQ)	iviasearoearaneous nerve injury	Time
Accidents and injuries	Musauloskalatal injum	Narrow
I ~	Musculoskeletal injury	Ivaliow
(SMQ)		
Accidents and injuries	Myocardial rupture	Narrow
(SMQ)		
Accidents and injuries	Nail avulsion	Narrow
(SMQ)		
Accidents and injuries	Nail injury	Narrow
(SMQ)		
Accidents and injuries	Near drowning	Narrow
(SMQ)	real drowning	Tuniow
	Maals amahina	Narrow
Accidents and injuries	Neck crushing	Narrow
(SMQ)		
Accidents and injuries	Neck injury	Narrow
(SMQ)		
Accidents and injuries	Nerve compression	Broad
(SMQ)	-	
Accidents and injuries	Nerve injury	Narrow
(SMQ)	· · · · · · · · · · · · · · · · · · ·	
Accidents and injuries	Nerve root injury	Narrow
_	1101 ve 100t injury	Natiow
(SMQ)	DT	N
Accidents and injuries	Nerve root injury cervical	Narrow
(SMQ)		
Accidents and injuries	Nerve root injury lumbar	Narrow
(SMQ)		
Accidents and injuries	Nerve root injury sacral	Narrow
(SMQ)		
Accidents and injuries	Nerve root injury thoracic	Narrow
recidents and injuries	1 101 ve 100t injury moracie	114110 44

(SMQ)		
Accidents and injuries (SMQ)	Esophageal injury	Narrow
Accidents and injuries (SMQ)	Esophageal rupture	Narrow
Accidents and injuries (SMQ)	Open fracture	Narrow
Accidents and injuries (SMQ)	Open globe injury	Narrow
Accidents and injuries (SMQ)	Optic nerve injury	Narrow
Accidents and injuries (SMQ)	Optic pathway injury	Narrow
Accidents and injuries (SMQ)	Osteochondral fracture	Narrow
Accidents and injuries (SMQ)	Pancreatic duct rupture	Narrow
Accidents and injuries (SMQ)	Pancreatic injury	Narrow
Accidents and injuries (SMQ)	Parasympathetic nerve injury	Narrow
Accidents and injuries (SMQ)	Patella fracture	Narrow
Accidents and injuries (SMQ)	Pellegrini Stieda disease	Narrow
Accidents and injuries (SMQ)	Pelvic fracture	Narrow
Accidents and injuries (SMQ)	Pelvic organ injury	Narrow
Accidents and injuries (SMQ)	Penetrating abdominal trauma	Narrow
Accidents and injuries (SMQ)	Penetrating eye injury repair	Narrow
Standardized MedDRA queries (SMQ)	Preferred term	Term scope text
Accidents and injuries (SMQ)	Penile contusion	Narrow
Accidents and injuries (SMQ)	Penis injury	Narrow
Accidents and injuries (SMQ)	Penis reattachment	Narrow
Accidents and injuries (SMQ)	Perforation bile duct	Broad
Accidents and injuries (SMQ)	Perineal injury	Narrow
Accidents and injuries	Peripheral nerve injury	Narrow

(SMQ)		
Accidents and injuries	Peritoneal perforation	Broad
(SMQ)	Tentonear perioration	Biodd
(SIVIQ)	Danama al marria inium	Narrow
Accidents and injuries	Peroneal nerve injury	Narrow
(SMQ)		
Accidents and injuries	Pharyngeal injury	Narrow
(SMQ)		
Accidents and injuries	Photoelectric conjunctivitis	Narrow
(SMQ)		
Accidents and injuries	Pneumothorax traumatic	Narrow
(SMQ)		T (MITO)
Accidents and injuries	Post conquesion syndrome	Broad
_	Post-concussion syndrome	bioau
(SMQ)		
Accidents and injuries	Post-traumatic headache	Narrow
(SMQ)		
Accidents and injuries	Post-traumatic neck syndrome	Narrow
(SMQ)		
Accidents and injuries	Post-traumatic osteoporosis	Broad
(SMQ)		
Accidents and injuries	Post-traumatic pain	Broad
_	1 Ost-traumatic pain	Bioad
(SMQ)	D	N.
Accidents and injuries	Posterior capsule rupture	Narrow
(SMQ)		
Accidents and injuries	Posterior tibial nerve injury	Narrow
(SMQ)		
Accidents and injuries	Prevertebral soft tissue swelling	Broad
(SMQ)	of cervical space	
Accidents and injuries	Product package associated	Narrow
(SMQ)	injury	
Accidents and injuries	Pubis fracture	Narrow
	1 dois fracture	Narrow
(SMQ)	D.I.	N
Accidents and injuries	Pulmonary contusion	Narrow
(SMQ)		
Accidents and injuries	Radial head dislocation	Narrow
(SMQ)		
Accidents and injuries	Radial nerve injury	Narrow
(SMQ)		
Accidents and injuries	Radius fracture	Narrow
(SMQ)		
Accidents and injuries	Rectal injury	Narrow
3	Nectal Injury	Ivaiiow
(SMQ)	D 1::	D 1
Accidents and injuries	Renal injury	Broad
(SMQ)		
Accidents and injuries	Repair of diaphragm injury	Narrow
(SMQ)		
Accidents and injuries	Retinal detachment	Broad
		1

(SMQ)		
Accidents and injuries (SMQ)	Retinal injury	Narrow
Accidents and injuries (SMQ)	Retinal tear	Broad
Accidents and injuries (SMQ)	Rib fracture	Narrow
Accidents and injuries (SMQ)	Road traffic accident	Narrow
Accidents and injuries (SMQ)	Sacroiliac fracture	Narrow
Accidents and injuries (SMQ)	Scapula fracture	Narrow
Accidents and injuries (SMQ)	Scapulothoracic dissociation	Narrow
Accidents and injuries (SMQ)	Sciatic nerve injury	Narrow
Accidents and injuries (SMQ)	Scratch	Narrow
Accidents and injuries (SMQ)	Sinus tarsi syndrome	Narrow
Accidents and injuries (SMQ)	Skeletal injury	Narrow
Accidents and injuries (SMQ)	Skin abrasion	Broad
Accidents and injuries (SMQ)	Skin injury	Narrow
Accidents and injuries (SMQ)	Skull fracture	Narrow
Accidents and injuries (SMQ)	Skull fractured base	Narrow
Accidents and injuries (SMQ)	Snake bite	Broad
Accidents and injuries (SMQ)	Soft tissue injury	Narrow
Accidents and injuries (SMQ)	Spinal column injury	Narrow
Accidents and injuries (SMQ)	Spinal compression fracture	Narrow
Accidents and injuries (SMQ)	Spinal cord injury	Narrow
Accidents and injuries (SMQ)	Spinal cord injury cauda equina	Narrow
Accidents and injuries (SMQ)	Spinal cord injury cervical	Narrow
Accidents and injuries	Spinal cord injury lumbar	Narrow

(CMO)			
(SMQ)	G : 1 1:: 1	NT.	
Accidents and injuries	Spinal cord injury sacral	Narrow	
(SMQ)			
Accidents and injuries	Spinal cord injury thoracic	Narrow	
(SMQ)			
Accidents and injuries	Spinal epidural hematoma	Broad	
(SMQ)	Spinar opidarar nomatoma	Diode	
	Cain at anidayant bear and a an	Dungad	
Accidents and injuries	Spinal epidural hemorrhage	Broad	
(SMQ)			
Accidents and injuries	Spinal fracture	Narrow	
(SMQ)			
Accidents and injuries	Spinal fusion fracture	Narrow	
(SMQ)	Parama and a same and a		
Accidents and injuries	Spinal shock	Narrow	
	Spilial shock	Natiow	
(SMQ)		1	
Accidents and injuries	Spinal subarachnoid	Narrow	
(SMQ)	hemorrhage		
Accidents and injuries	Spinal subdural hematoma	Broad	
(SMQ)	•		
Standardized MedDRA	Preferred term	Term scope text	
queries (SMQ)	Treferred term	Term scope text	
	Calcar control on	Nomera	
Accidents and injuries	Spleen contusion	Narrow	
(SMQ)			
Accidents and injuries	Splenic injury	Narrow	
(SMQ)			
Accidents and injuries	Splenic rupture	Narrow	
(SMQ)			
Accidents and injuries	Splenosis	Broad	
(SMQ)	Spienosis	Broad	
	Calinton	Nomer	
Accidents and injuries	Splinter	Narrow	
(SMQ)			
Accidents and injuries	Spondylopathy traumatic	Narrow	
(SMQ)			
Accidents and injuries	Sports injury	Narrow	
(SMQ)	1 3 2		
Accidents and injuries	Stab wound	Narrow	
<u> </u>	State Would	114110 W	
(SMQ)	i	1	
Accidents and injuries	C4 1 - C4 4	NT	
	Sternal fracture	Narrow	
(SMQ)			
(SMQ) Accidents and injuries	Sternal fracture Sternal injury	Narrow Narrow	
Accidents and injuries (SMQ)	Sternal injury	Narrow	
Accidents and injuries (SMQ) Accidents and injuries			
Accidents and injuries (SMQ) Accidents and injuries (SMQ)	Sternal injury Stress fracture	Narrow Narrow	
Accidents and injuries (SMQ) Accidents and injuries (SMQ) Accidents and injuries	Sternal injury	Narrow	
Accidents and injuries (SMQ) Accidents and injuries (SMQ)	Sternal injury Stress fracture	Narrow Narrow	

(SMQ)		
Accidents and injuries	Subdural hematoma evacuation	Broad
(SMQ)		
Accidents and injuries	Subdural hemorrhage	Broad
(SMQ)	Subdutat hemorrhage	Broad
Accidents and injuries	Subretinal fluid	Broad
_	Subretinal Huid	Broad
(SMQ)		
Accidents and injuries	Sunburn	Narrow
(SMQ)		
Accidents and injuries	Superficial injury of eye	Narrow
(SMQ)		
Accidents and injuries	Sympathetic nerve injury	Narrow
(SMQ)		
Accidents and injuries	Synovial rupture	Broad
(SMQ)	Synovianiopears	
Accidents and injuries	Tendon injury	Narrow
	Tendon injury	Narrow
(SMQ)	T1	NI
Accidents and injuries	Tendon rupture	Narrow
(SMQ)		
Accidents and injuries	Testicular injury	Narrow
(SMQ)		
Accidents and injuries	Thermal burn	Narrow
(SMQ)		
Accidents and injuries	Thermal burns of eye	Narrow
(SMQ)		
Accidents and injuries	Thoracic vertebral fracture	Narrow
(SMQ)		
Accidents and injuries	Tibia fracture	Narrow
(SMQ)	Tiola fractate	Turiow
Accidents and injuries	Tongue injury	Narrow
(SMO)	Toligue injury	Narrow
(SMQ)	T (1 1 1	N
Accidents and injuries	Tooth avulsion	Narrow
(SMQ)		
Accidents and injuries	Tooth fracture	Narrow
(SMQ)		
Accidents and injuries	Tooth injury	Narrow
(SMQ)		
Accidents and injuries	Torus fracture	Narrow
(SMQ)		
Accidents and injuries	Tracheal injury	Narrow
(SMQ)	- Lacrott mjor y	
Accidents and injuries	Traumatic amputation	Narrow
	Traumane amputation	Ivaliow
(SMQ)	Turner	NI
Accidents and injuries		Narrow
	Traumatic anuria	Narrow
(SMQ) Accidents and injuries	Traumatic anuria Traumatic arthritis	Narrow

(SMQ)		
Accidents and injuries	Traumatic arthropathy	Narrow
(SMQ)	Traumatic artinopatity	Tarrow
Accidents and injuries	Traumatic arthrosis	Narrow
_	Traumauc armrosis	Narrow
(SMQ)		
Accidents and injuries	Traumatic coma	Narrow
(SMQ)		
Accidents and injuries	Traumatic ear amputation	Narrow
(SMQ)	_	
Accidents and injuries	Traumatic fracture	Narrow
(SMQ)		
Accidents and injuries	Traumatic hematoma	Narrow
_	Traumatic nematoma	Namow
(SMQ)		N.
Accidents and injuries	Traumatic hemorrhage	Narrow
(SMQ)		
Accidents and injuries	Traumatic hemothorax	Narrow
(SMQ)		
Accidents and injuries	Traumatic intracranial	Narrow
(SMQ)	hemorrhage	
Accidents and injuries	Traumatic iritis	Narrow
(SMQ)	Traditatic fittis	Tullow
	T	NI
Accidents and injuries	Traumatic liver injury	Narrow
(SMQ)		
Accidents and injuries	Traumatic lung injury	Narrow
(SMQ)		
Accidents and injuries	Traumatic pancreatitis	Narrow
(SMQ)		
Accidents and injuries	Traumatic renal injury	Narrow
(SMQ)	l and the same same	
Accidents and injuries	Traumatic shock	Narrow
(SMQ)	Traumatic shock	Narrow
	Turner dia suite al send	NT
Accidents and injuries	Traumatic spinal cord	Narrow
(SMQ)	compression	
Accidents and injuries	Traumatic torticollis	Narrow
(SMQ)		
Accidents and injuries	Traumatic ulcer	Narrow
(SMQ)		
Accidents and injuries	Traumatic ulcerative granuloma	Broad
(SMQ)	with stromal eosinophilia	
Accidents and injuries	Trench foot	Broad
_	TICHCH 100t	Divau
(SMQ)	m : 1	D 1
Accidents and injuries	Tympanic membrane	Broad
(SMQ)	perforation	
Accidents and injuries	Ulna fracture	Narrow
(SMQ)		
Accidents and injuries	Ulnar nerve injury	Narrow
	J J	

(SMQ)		
Accidents and injuries	Upper limb fracture	Narrow
(SMQ)		
Accidents and injuries	Ureteric injury	Narrow
(SMQ)		
Standardized MedDRA	Preferred term	Term scope text
queries (SMQ)		_
Accidents and injuries	Ureteric perforation	Broad
(SMQ)		
Accidents and injuries	Ureteric rupture	Narrow
(SMQ)		
Accidents and injuries	Urethral injury	Narrow
(SMQ)		
Accidents and injuries	Urethral perforation	Broad
(SMQ)	-	
Accidents and injuries	Urethral stricture traumatic	Narrow
(SMQ)		
Accidents and injuries	Urinary bladder rupture	Narrow
(SMQ)		
Accidents and injuries	Urinary tract injury	Narrow
(SMQ)		
Accidents and injuries	Uterine perforation	Broad
(SMQ)		
Accidents and injuries	Uveal prolapse	Broad
(SMQ)		
Accidents and injuries	VIIIth nerve injury	Narrow
(SMQ)		
Accidents and injuries	VIIth nerve injury	Narrow
(SMQ)		
Accidents and injuries	VIth nerve injury	Narrow
(SMQ)		
Accidents and injuries	Vaginal laceration	Narrow
(SMQ)		
Accidents and injuries	Vaginal perforation	Broad
(SMQ)		
Accidents and injuries	Vascular injury	Narrow
(SMQ)		
Accidents and injuries	Vascular rupture	Narrow
(SMQ)		
Accidents and injuries	Vena cava injury	Narrow
(SMQ)		
Accidents and injuries	Venous injury	Narrow
(SMQ)		
	Ventricle rupture	Narrow
(SMQ)	_	
Accidents and injuries	Vitreous detachment	Broad
(SMQ) Accidents and injuries (SMQ)	Vaginal laceration Vaginal perforation Vascular injury Vascular rupture Vena cava injury Venous injury Ventricle rupture	Narrow Broad Narrow Narrow Narrow Narrow Narrow

(SMQ)			
Accidents and injuries	Vitreous injury	Narrow	
(SMQ)	The state of the		
Accidents and injuries	Vitreous loss	Broad	
(SMQ)			
Accidents and injuries	Vitreous prolapse	Broad	
(SMQ)			
Accidents and injuries	Vth nerve injury	Narrow	
(SMQ)			
Accidents and injuries	Vulval laceration	Narrow	
(SMQ)			
Accidents and injuries	Vulvovaginal injury	Narrow	
(SMQ)			
Accidents and injuries	Wound	Broad	
(SMQ)			
Accidents and injuries	Wrist fracture	Narrow	
(SMQ)			
Accidents and injuries	XIIth nerve injury	Narrow	
(SMQ)			
Accidents and injuries	XIth nerve injury	Narrow	
(SMQ)			
Convulsions (SMQ)	Acquired epileptic aphasia	Narrow	
Convulsions (SMQ)	Acute encephalitis with	Narrow	
	refractory, repetitive partial		
	seizures		
Convulsions (SMQ)	Alcoholic seizure	Narrow	
Convulsions (SMQ)	Amygdalohippocampectomy	Broad	
Convulsions (SMQ)	Atonic seizures	Narrow	
Convulsions (SMQ)	Atypical benign partial epilepsy	Narrow	
Convulsions (SMQ)	Aura	Broad	
Convulsions (SMQ)	Automatism epileptic	Narrow	
Convulsions (SMQ)	Autonomic seizure	Narrow	
Convulsions (SMQ)	Baltic myoclonic epilepsy	Narrow	
Convulsions (SMQ)	Benign familial neonatal	Narrow	
	convulsions		
Convulsions (SMQ)	Benign rolandic epilepsy	Narrow	
Convulsions (SMQ)	Biotinidase deficiency	Narrow	
Convulsions (SMQ)	Change in seizure presentation	Narrow	
Convulsions (SMQ)	Clonic convulsion	Narrow	
Convulsions (SMQ)	Complex partial seizures	Narrow	
Convulsions (SMQ)	Convulsion in childhood	Narrow	
Convulsions (SMQ)	Convulsion neonatal	Narrow	
Convulsions (SMQ)	Convulsion prophylaxis	Broad	
Convulsions (SMQ)	Convulsions local	Narrow	
Convulsions (SMQ)	Convulsive threshold lowered	Narrow	

Convulsions (SMQ)	Corpus callosotomy	Broad
Convulsions (SMQ)	Deja vu	Narrow
Convulsions (SMQ)	Double cortex syndrome	Narrow
Convulsions (SMQ)	Dreamy state	Narrow
Convulsions (SMQ)	Drop attacks	Broad
Convulsions (SMQ)	Drug withdrawal convulsions	Narrow
Convulsions (SMQ)	Early infantile epileptic	Narrow
, ,	encephalopathy with burst-	
	suppression	
Convulsions (SMQ)	Eclampsia	Narrow
Standardized MedDRA	Preferred term	Term scope text
queries (SMQ)		_
Convulsions (SMQ)	Epilepsy	Narrow
Convulsions (SMQ)	Epileptic aura	Narrow
Convulsions (SMQ)	Epileptic psychosis	Narrow
Convulsions (SMQ)	Febrile convulsion	Narrow
Convulsions (SMQ)	Foaming at mouth	Broad
Convulsions (SMQ)	Frontal lobe epilepsy	Narrow
Convulsions (SMQ)	Generalized non-convulsive	Narrow
	epilepsy	
Convulsions (SMQ)	Generalized tonic-clonic seizure	Narrow
Convulsions (SMQ)	Hyperglycemic seizure	Narrow
Convulsions (SMQ)	Hypocalcemic seizure	Narrow
Convulsions (SMQ)	Hypoglycemic seizure	Narrow
Convulsions (SMQ)	Hyponatremic seizure	Narrow
Convulsions (SMQ)	Idiopathic generalized epilepsy	Narrow
Convulsions (SMQ)	Infantile spasms	Narrow
Convulsions (SMQ)	Juvenile myoclonic epilepsy	Narrow
Convulsions (SMQ)	Lafora's myoclonic epilepsy	Narrow
Convulsions (SMQ)	Lennox-Gastaut syndrome	Narrow
Convulsions (SMQ)	Migraine-triggered seizure	Narrow
Convulsions (SMQ)	Molybdenum cofactor	Narrow
	deficiency	
Convulsions (SMQ)	Myoclonic epilepsy	Narrow
Convulsions (SMQ)	Myoclonic epilepsy and ragged-	Narrow
	red fibers	
Convulsions (SMQ)	Narcolepsy	Broad
Convulsions (SMQ)	Partial seizures	Narrow
Convulsions (SMQ)	Partial seizures with secondary	Narrow
	generalization	
Convulsions (SMQ)	Petit mal epilepsy	Narrow
Convulsions (SMQ)	Polymicrogyria	Narrow
Convulsions (SMQ)	Post stroke epilepsy	Narrow
Convulsions (SMQ)	Post stroke seizure	Narrow
Convulsions (SMQ)	Post-traumatic epilepsy	Narrow

Convulsions (SMQ)	Postictal headache	Narrow
Convulsions (SMQ)	Postictal paralysis	Narrow
Convulsions (SMQ)	Postictal psychosis	Narrow
Convulsions (SMQ)	Postictal state	Narrow
Convulsions (SMQ)	Preictal state	Broad
Convulsions (SMQ)	Psychomotor seizures	Narrow
Convulsions (SMQ)	Schizencephaly	Narrow
Convulsions (SMQ)	Seizure	Narrow
Convulsions (SMQ)	Seizure anoxic	Narrow
Convulsions (SMQ)	Seizure cluster	Narrow
Convulsions (SMQ)	Seizure like phenomena	Narrow
Convulsions (SMQ)	Severe myoclonic epilepsy of	Narrow
	infancy	
Convulsions (SMQ)	Simple partial seizures	Narrow
Convulsions (SMQ)	Status epilepticus	Narrow
Convulsions (SMQ)	Sudden unexplained death in	Narrow
	epilepsy	
Convulsions (SMQ)	Temporal lobe epilepsy	Narrow
Convulsions (SMQ)	Tongue biting	Broad
Convulsions (SMQ)	Tonic clonic movements	Narrow
Convulsions (SMQ)	Tonic convulsion	Narrow
Convulsions (SMQ)	Tonic posturing	Narrow
Convulsions (SMQ)	Topectomy	Narrow
Convulsions (SMQ)	Uncinate fits	Narrow
nmq_hypo	Blood glucose decreased	Narrow
nmq_hypo	Hyperinsulinaemic	Narrow
	hypoglycemia	
nmq_hypo	Hypoglycemia	Narrow
nmq_hypo	Hypoglycemia neonatal	Narrow
nmq_hypo	Hypoglycemia unawareness	Narrow
nmq_hypo	Hypoglycemic coma	Narrow
nmq_hypo	Hypoglycemic encephalopathy	Narrow
Standardized MedDRA	Preferred term	Term scope text
queries (SMQ)		
nmq_hypo	Hypoglycemic seizure	Narrow
nmq_hypo	Hypoglycemic unconsciousness	Narrow
nmq_hypo	Neuroglycopenia	Narrow
nmq_hypo	Shock hypoglycemic	Narrow

eTable 4. Multiple imputation tipping analysis for primary endpoint

	Insulin degludec	Insulin glargine U100	ERR [95%CI]
Completers			
N	405	405	
PYE	124.4	124.5	
Total no. of episodes	2751	3073	
Mean no. of	6.8	7.6	
episodes	2212.3	2467.8	
Rate per 100 PYE			
Rate per 100 PYE –	1227.0	1372.3	0.89 [0.85; 0.94]
MI tipping point			
analysis			
Non-completers mult	iple imputation		
N	49	55	
PYE	15.8	17.7	
Total no. of episodes	252	318	
Mean no. of	5.1	5.8	
episodes	1596.0	1796.6	
Rate per 100 PYE			
Rate per 100 PYE –	1183.7	1316.3	0.90 [0.85; 0.95]
MI tipping point			
analysis			
Non-completers tippi	ng point		
N	49	55	
PYE	15.8	17.7	
Total no. of episodes	840.3	318	
Mean no. of	17.1	5.8	
episodes	5315.6	1796.6	
Rate per 100 PYE			
Rate per 100 PYE –	12 episod	e penalty	0.95 [0.90; 1.00]
MI tipping point			
analysis			

CI, confidence interval; ERR, estimated rate ratio; MI, multiple imputation; N, number of patients; PYE, patient years of exposure.

For the tipping point analysis, 12 episodes are added to the values obtained from multiple imputation for all patients not completing insulin degludec.

eTable 5. Summary of mean basal, bolus, and total insulin doses

	Treatment sequence	
	IDeg/IGlar (Units)	IGlar/IDeg (Units)
Basal insulin		
Baseline	29 (18)	24 (14)
End of treatment period 1	39 (30)	36 (22)
End of treatment period 2	41 (34)	37 (26)
Bolus insulin		<u> </u>
Baseline	28 (17)	25 (16)
End of treatment period 1	31 (28)	29 (22)
End of treatment period 2	32 (28)	30 (23)
Total insulin		<u> </u>
Baseline	53 (30)	46 (26)
End of treatment period 1	69 (53)	63 (36)
End of treatment period 2	69 (54)	64 (41)

Data are mean (standard deviation) for the safety analysis set. IDeg, insulin degludec; IGlar, insulin glargine U100.

eTable 6. Summary of adverse events occurring during treatment periods 1 and 2

	IDeg (n=454) PYE=259.2				IGlar (n=460) PYE=261.4			
	n	%	E	Rate/ 100 PYE [95% CI]	n	%	E	Rate/ 100 PYE [95% CI]
AEs	294	64.8	925	356.8 [333.9; 379.8]	310	67.4	937	358.5 [335.5; 381.4]
Serious AEs	58	12.8	101	39.0 [31.4; 46.6]	70	15.2	118	45.1 [37.0; 53.3]
Severe AEs	43	9.5	68	26.2 [20.0; 32.5]	67	14.6	113	43.2 [35.3; 51.2]
AEs probably related to trial product	28	6.2	48	18.5 [13.3; 23.8]	29	6.3	44	16.8 [11.5; 21.8]
Serious AEs probably related to trial product	16	3.5	28	10.8 [6.8; 14.8]	20	4.3	30	11.5 [7.4; 15.6]

Data are for safety analysis set. AE, adverse event; CI, confidence interval; E, number of events; IDeg, insulin degludec; IGlar, insulin glargine U100; n, number of patients with events; PYE, patient-years of exposure; Rate, unadjusted event rate (events/100 PYE); %, proportion of patients with events.