

SURFACER®

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LUND
UNIVERSITY



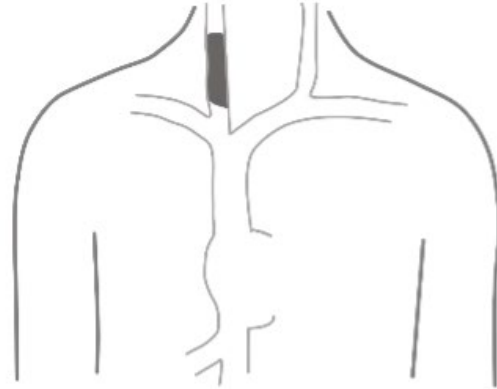
Surfacer® – ”in side out”

Central access catheters perform best when placed through RIJV.

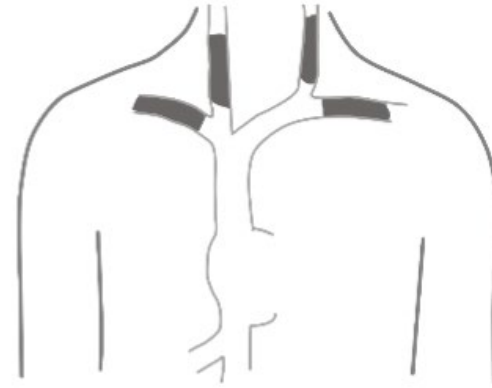
Surfacer® is a tool for establishment of central dialysis catheters or subcutaneous ports when central access is complicated, usually occluded.



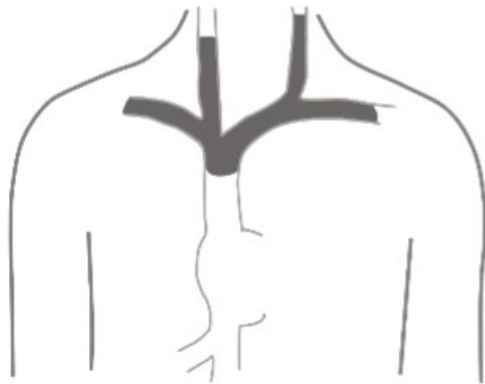
Type of central venous occlusions



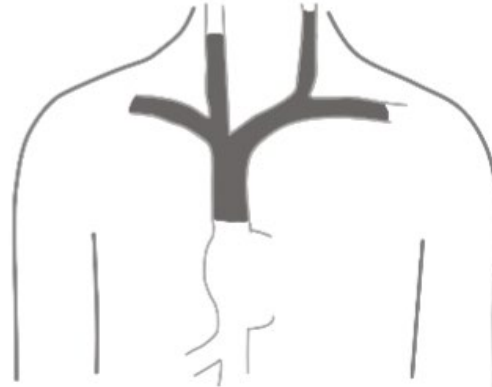
A. Unilateral RIJ occlusion



B. Bilateral IJ and SC occlusions



C. SVC occlusion above azygos



D. Total occlusion of SVC



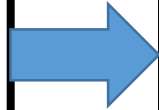
Methods for Complicated Catheter Access

Sharp recanalization of central occluded veins

Stiff guidewire

Chiba

Rupr 100

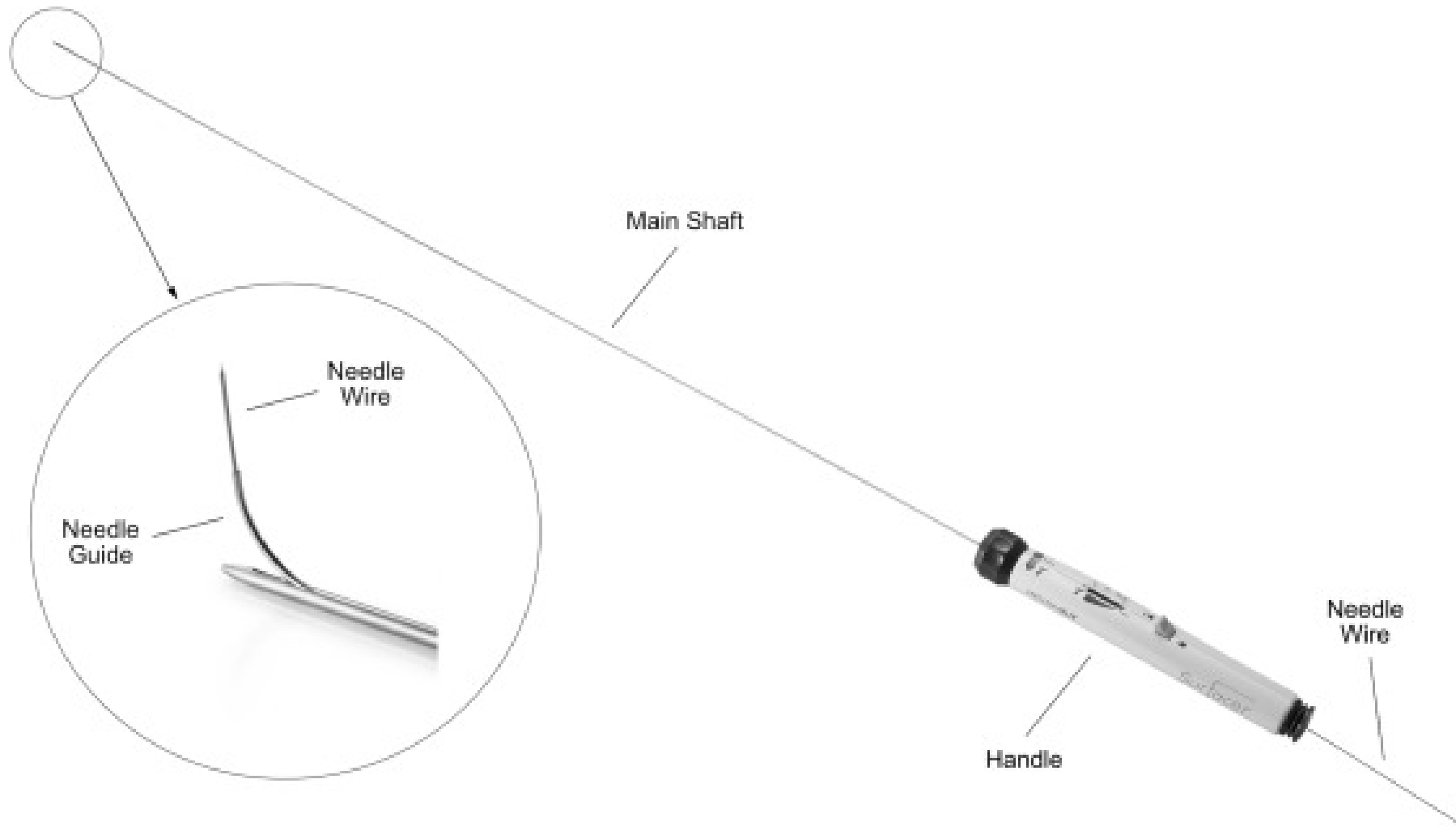


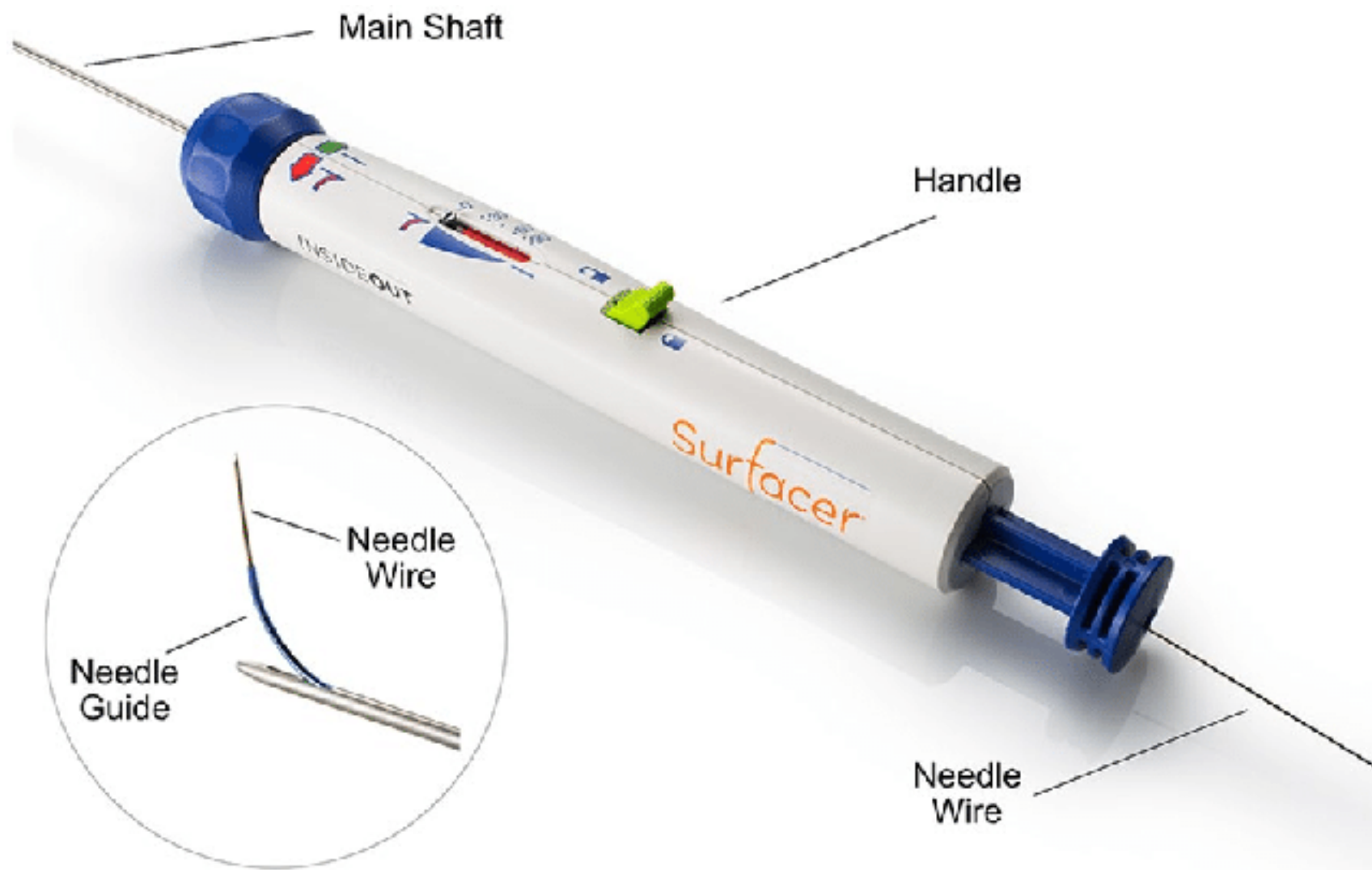
More than 90% success rate

Low frequency of severe complications

SURFACER®









”SURFACER® in the literature”

	n=	Ålder	Typ1	Typ2	Typ3	Typ4	Tid genomlysning	Tid operation	TS antal	TS%	Compl antal	Compl%
Reindl-Schwaighofer 2019	36	59	3	3	27	3	6	43	35	97	0	0
Han Hwee 2019	4	70	4	0	0	0	10	x	4	100	0	0
Baetens 2020	2	53	0	0	2	0	x	48	2	100	0	0
Gallieni 2020	30	60	8	5	8	9	6	24	29	97	0	0
Hentschel 2020	9	72	5	3	0	1	3	14	8	89	0	0
Galas 2021	10	62	4	2	4	0	8	75	9	90	0	0
Razavi 2021	30	56	7	6	16	1	11	44	27	90	4	13
Benfor 2022	17	61	1	7	9	0	10	102	14	82	0	0
	138	62	32	26	66	14	8	44	131		4	
	138	62	23%	19%	48%	10%	8	44	131	95%	4	3%

SURFACER® in Malmö

Procedure:

5 patients

General anesthesia

Age 20-77 years

Technical success 100%

Perioperative complications occurred in 1 patient, not related to the device

4 patients with type III occlusion and one patient with type II



SURFACER® in Malmö

Follow up:

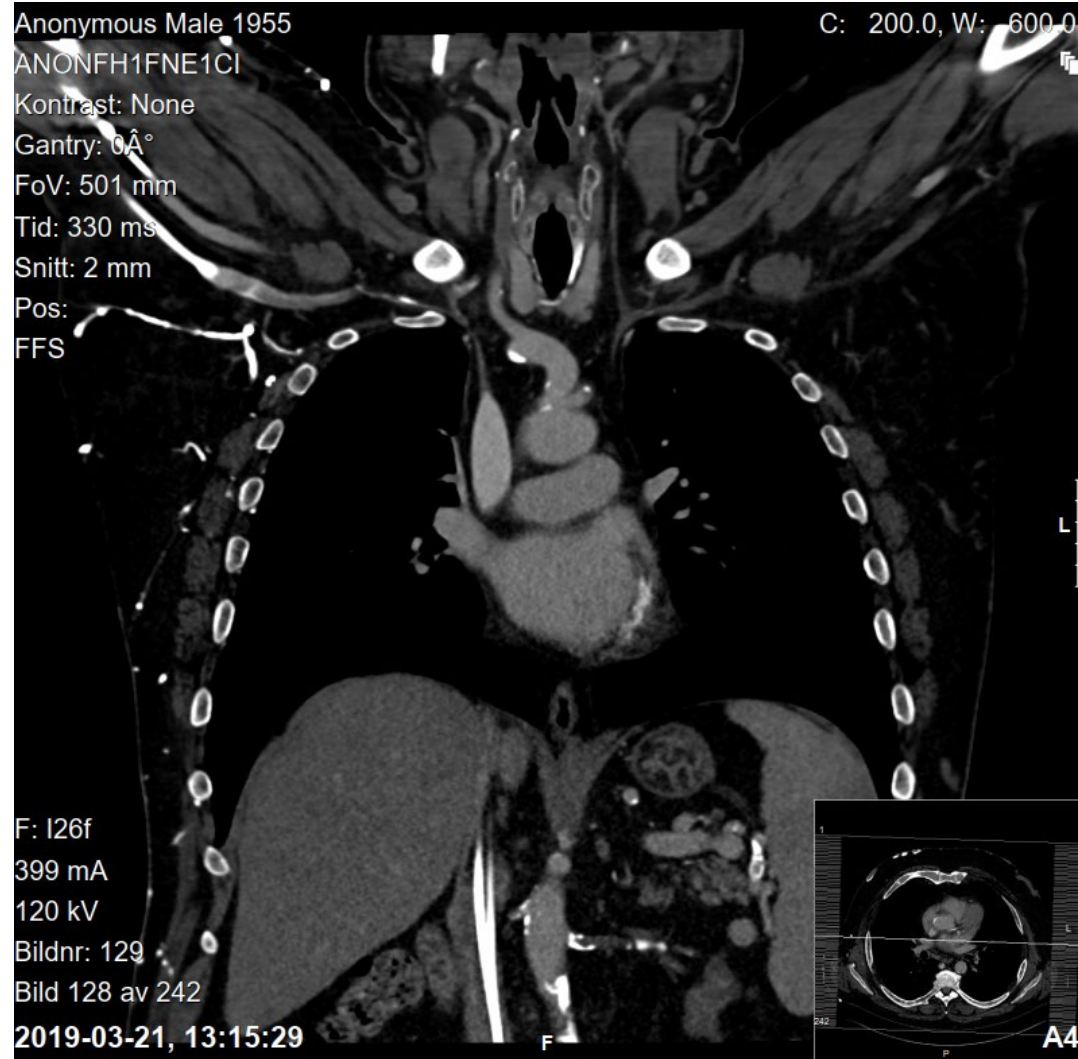
All five catheters showed good function during follow up

Three patients died during the first year, not device or catheter related

One patient had a tunnel infection after 3 months and recieved a new catheter



Fall CDK







Anonymous Male 1955
ANONNB1FNE17F

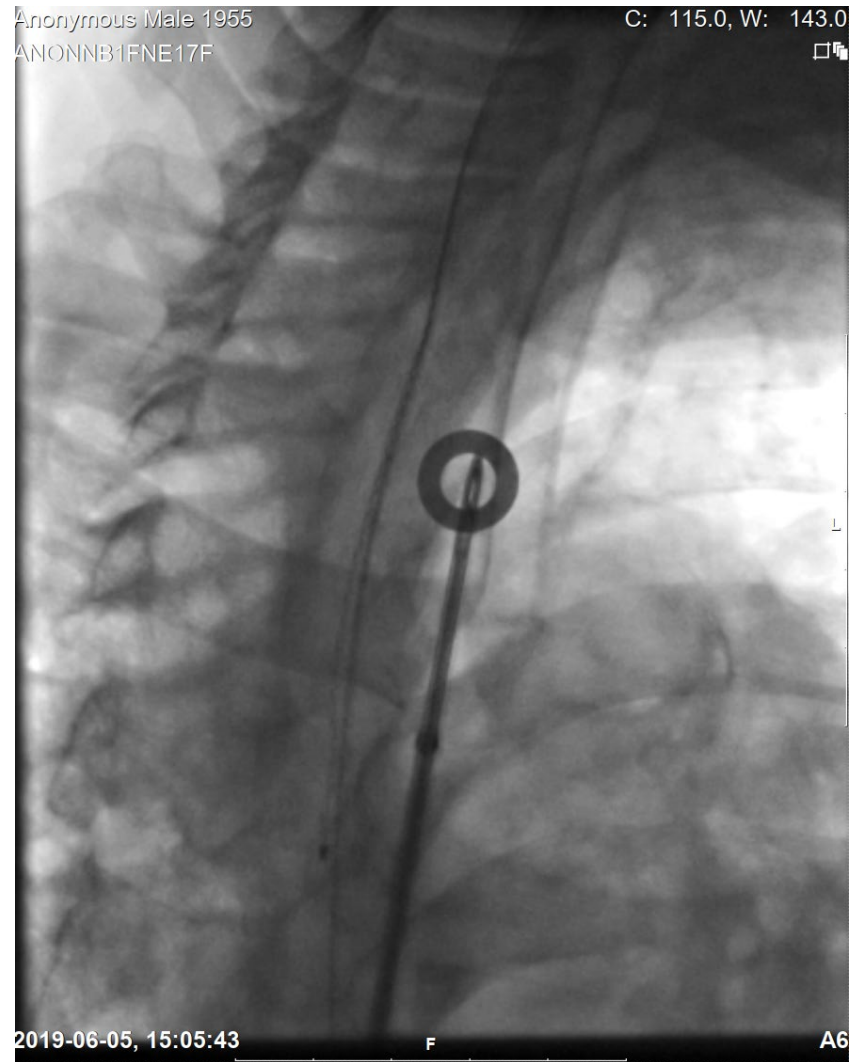
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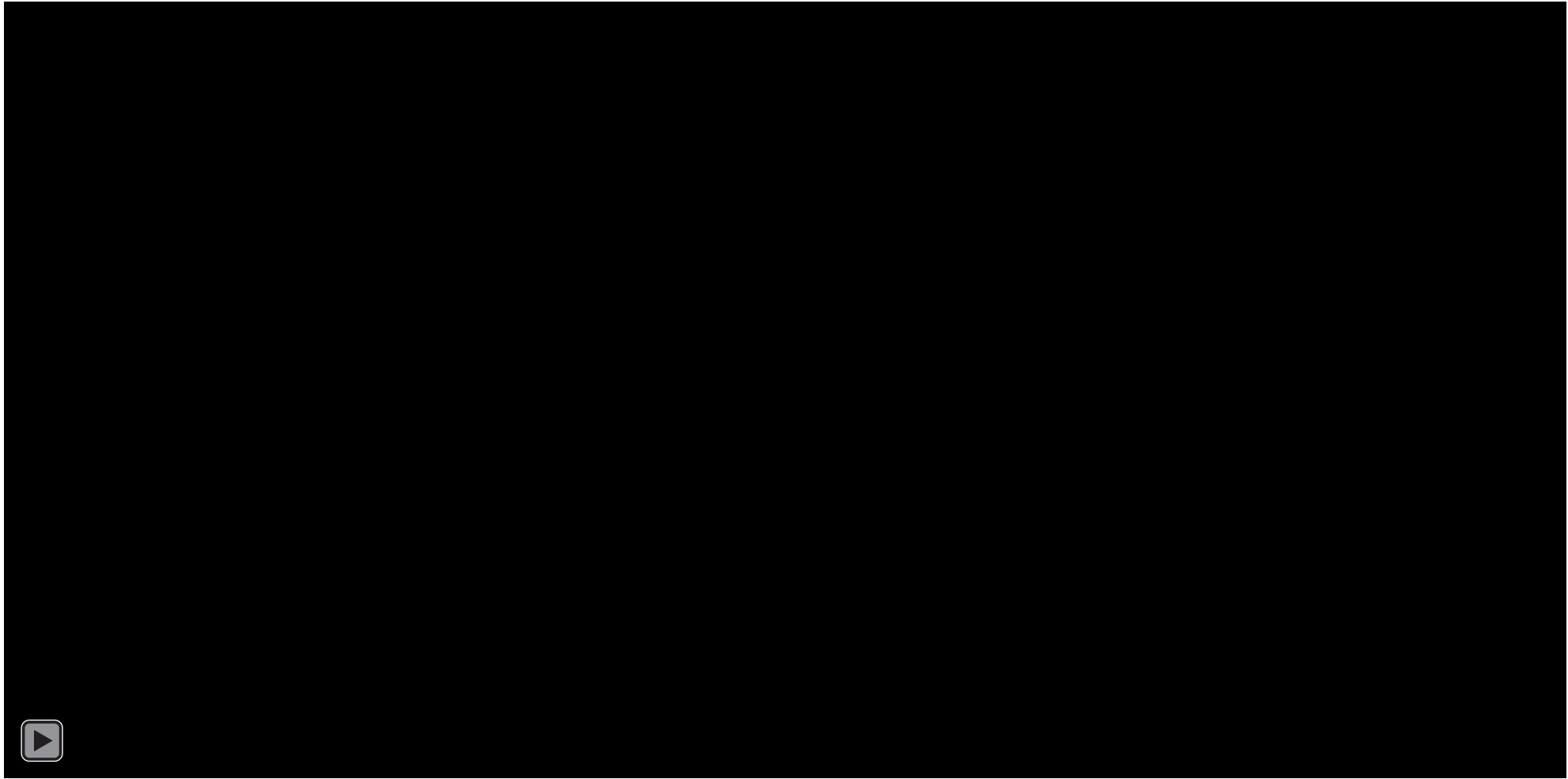
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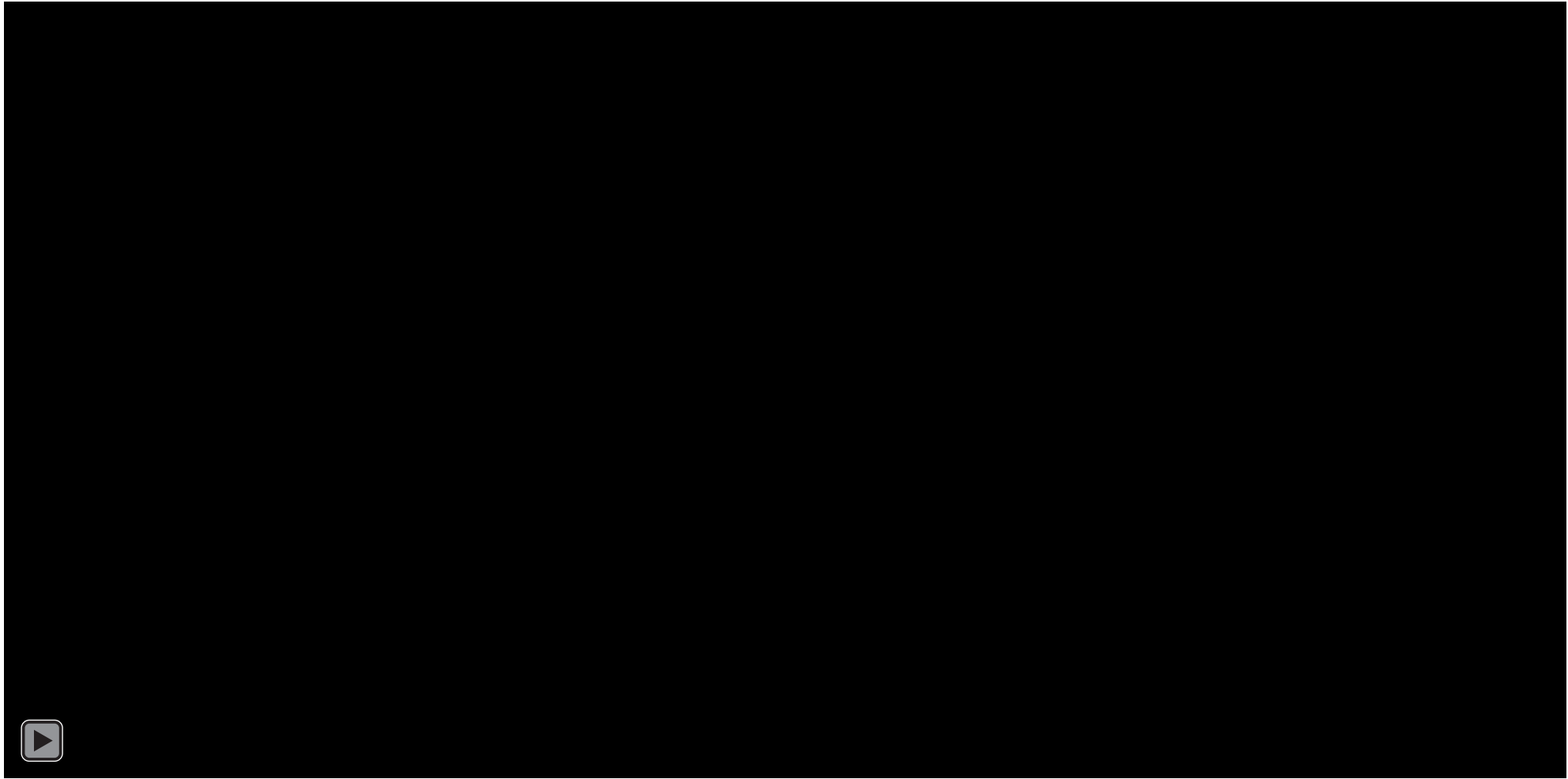
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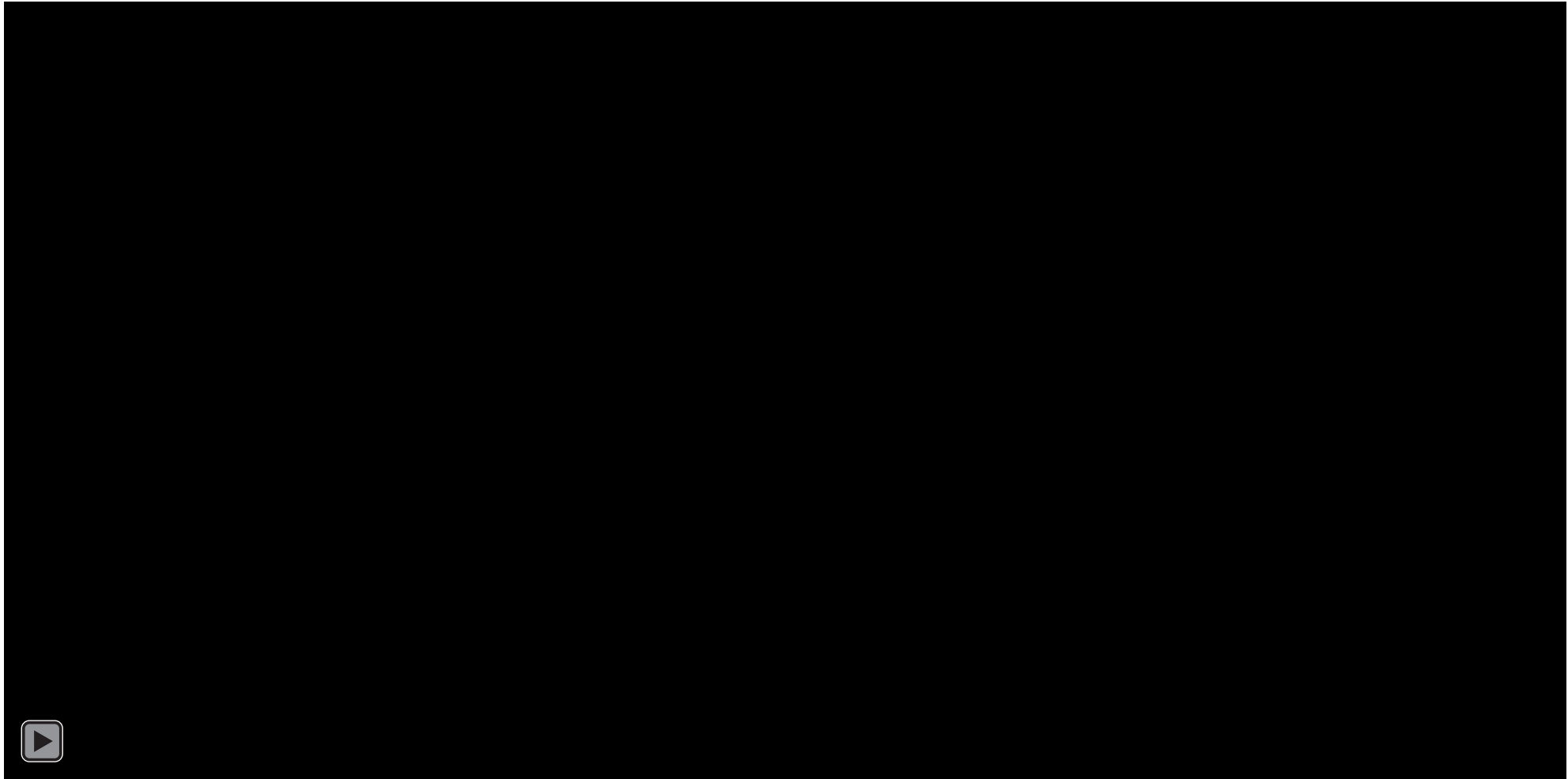
A3



Fall SVP







Tack!

