

# DMEK: 20 months at Sightline

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# DSAEK

- Graft tissue approx 100 microns or more
- Less surgeon preparation of tissue
- On average shorter surgical time
- Air bubble – lasts approx 3 days

# DMEK

- Graft tissue approx 15 microns
- More surgeon preparation of tissue
- On average longer surgical time
- SF6 gas bubble – lasts approx 7 days

# DMEK candidates

## GOOD CANDIDATES

- Mild-moderate Fuchs
- PBK with standard lens
- Endothelial failure of PKP (some cases)
- PPMD/CHED (possibly)

## POOR CANDIDATES

- Stromal scarring
- Inability to position
- History of trauma
- Iris defects/atonic pupil
- h/o glaucoma surgery
- h/o vitrectomy
- ACIOL
- Sulcus lens (?)

# DMEK cases

- 58 DMEK cases as of 1/13/15
- 48 DSAEK cases without retinal pathology

# DSAEK cases

- Compared to last 48 DSAEK cases without retinal pathology

<b>Cell Counts</b>	<b>DSAEK</b>	<b>DMEK</b>
Pre op graft	2691 (n=48)	2725 (n=48)
1 month	N/A	1914 (n=47)
3 month	2110 (n=41)	1940 (n=36)
6 month	2021 (n=38)	1854 (n=26)
9 month	N/A	1906 (n=16)
12 month	1969 (n=24)	2108 (n=12)

<b>Pachymetry</b>	<b>DSAEK</b>	<b>DMEK</b>
Pre op	638 (n=48)	598 (n=48)
1 month	648 (n=41)	553 (n=47)
3 month	631 (n=41)	533 (n=36)
6 month	618 (n=38)	532 (n=26)
9 month	N/A	540 (n=16)
12 month	618 (n=24)	534 (n=12)

<b>Visual Acuity</b>	<b>DSAEK</b>	<b>DMEK</b>
Pre op	20/52 (n=48)	20/40 (n=48)
1 month	20/38 (n=41)	20/30 (n=47)
3 month	20/34 (n=41)	20/24 (n=36)
6 month	20/31 (n=38)	20/24 (n=26)
9 month	N/A	20/23 (n=16)
12 month	20/32 (n=24)	20/22 (n=12)

# Conclusions

- DMEK can offer slightly superior visual outcomes
- But only standard, uncomplicated patients are candidates for DMEK
- DSAEK is reliable method for all patients