*Supplemental Table 1. Characteristics of included studies comparing femtosecond laser cataract surgery with conventional cataract surgery*

CCS = conventional cataract surgery; FLACS = femtosecond laser-assisted cataract surgery; NR = not reported; PNR = prospective non-randomized trial; RCT = randomized controlled trial; R = retrospective trial

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| --- | --- | --- | --- | --- | --- | --- |
| **First author,**  **year of publication** | **Study design** | **Country** | **Laser system** | **No. of eyes FLACS** | **No. of eyes CCS** | **Minimum follow-up duration** |
| Abell 2013a | PNR | Australia | Catalys | 100 | 76 | 1 month |
| Abell 2013b | PNR | Australia | Catalys | 200 | 200 | 3 weeks |
| Abell 2013c | PNR | Australia | Catalys | 150 | 51 | 3 weeks |
| Abell 2014a | PNR | Australia | Catalys | 405 | 215 | 6 months |
| Abell 2014b | PNR | Australia | Catalys | 804 | 822 | 1 day |
| Abell 2015 | PNR | Australia | Catalys | 1852 | 2228 | 1 day |
| Al-Mohtaseb 2017 | PNR | USA | Catalys / LenSx | 60 | 60 | 1 month |
| Alvarez-Rementería 2012 | R | Spain | LenSx | 25 | 25 | 6 weeks |
| Ang 2018 | R | Philippines | Victus | 296 | 439 | 12 months |
| Asena 2017 | R | Turkey | LenSx | 25 | 27 | 1 month |
| Bascaran 2018 | RCT | Spain | Victus | 92 | 92 | 6 months |
| Berk 2018 | R | Canada | LenSx | 955 | 883 | 3 weeks |
| Brunin 2017 | R | USA | LenSx | 76 | 101 | 12 months |
| Cavallini 2018 | PNR | Italy | LDV Z8 | 70 | 70 | 3 months |
| Chan 2017 | PNR | Australia | LenSx | 39 | 39 | 12 weeks |
| Chee 2015 | R | Singapore | Victus | 794 | 420 | 6 weeks |
| Chen 2015 | PNR | China | LenSx | 22 | 22 | 1 month |
| Chen 2017 | PNR | China | LenSx | 47 | 48 | 3 months |
| Conrad-Hengerer 2012 | PNR | Germany | Catalys | 57 | 52 | 4 weeks |
| Conrad-Hengerer 2013 | RCT | Germany | Catalys | 73 | 73 | 3 months |
| Conrad-Hengerer 2014a | R | Germany | Catalys | 400 | 400 | 1 day |
| Conrad-Hengerer 2014b | RCT | Germany | Catalys | 104 | 104 | 6 months |
| Conrad-Hengerer 2015 | RCT | Germany | Catalys | 100 | 100 | 6 months |
| Day 2018 | R | UK | Catalys | 19 | 19 | 1 day |
| Daya 2014 | PNR/R | UK | Victus | 108 | 108 | 1 day |
| Dick 2014 | RCT | Germany | Catalys | 53 | 53 | 3 months |
| Ecsedy 2011 | PNR | Hungary | LenSx | 20 | 20 | 1 month |
| Espaillat 2016 | R | Dominican Republic | LenSx | 53 | 62 | 12 months |
| Ewe 2015 | PNR | Australia | Catalys | 833 | 458 | 1 month |
| Ewe 2016 | PNR | Australia | Catalys | 988 | 888 | 1 month |
| Fan 2018 | RCT | China | LenSx | 15 | 16 | 12 months |
| Fernández 2018 | R | Spain | Victus | 104 | 104 | 1 month |
| Ferreira 2018 | RCT | Portugal | Catalys | 300 | 300 | 3 months |
| Filkorn 2012 | RCT | Hungary | LenSx | 77 | 57 | 6 weeks |
| Hatch 2015 | PNR | Germany | Catalys | 120 | 120 | 1 day |
| Hida 2017 | RCT | Brazil | LenSx | 200 | 200 | 1 month |
| Kovács 2014 | R | Hungary | LenSx | 40 | 39 | 22 months |
| Kránitz 2011 | R | Hungary | LenSx | 20 | 20 | 12 months |
| Kránitz 2012 | RCT | Hungary | LenSx | 20 | 25 | 12 months |
| Krarup 2014 | PNR | Denmark | LENSAR | 47 | 47 | 3 months |
| Lawless 2012 | R | Australia | LenSx | 61 | 29 | 3 months |
| Levitz 2015 | PNR | NR | LenSx | 677 | 713 | 2 months |
| Liu 2018 | RCT | Singapore | LDV Z8 | 35 | 35 | 3 months |
| Makombo 2016 | RCT | China | LenSx | 20 | 28 | 3 months |
| Mastropasqua 2014a | RCT | Italy | LenSx | 30 | 30 | 6 months |
| Mastropasqua 2014b+c | RCT | Italy | LenSx (a; n=30), LENSAR (b; n=30) | 60 | 30 | 6 months |
| Mayer 2014 | R | Germany | LenSx | 88 | 62 | 1 month |
| Miháltz 2011 | PNR | Hungary | LenSx | 48 | 51 | 6 months |
| Mursch-Edlmayr 2017 | RCT | Austria | Victus | 50 | 50 | 6 months |
| Nagy 2011 | RCT | Hungary | LenSx | 54 | 57 | 1 week |
| Nagy 2012 | PNR | Hungary | LenSx | 12 | 13 | 2 months |
| Nagy 2014 | RCT | Hungary | LenSx | 20 | 20 | 3 months |
| Oakley 2016 | PNR | Australia | Catalys | 323 | 95 | 6 months |
| Pajic 2017 | RCT | Switzerland | LDV Z8 | 68 | 62 | 3 months |
| Panthier 2017 | RCT | France | Victus | 33 | 33 | 12 months |
| Ranjini 2017 | PNR | India | LenSx | 55 | 55 | 1 month |
| Reddy 2013 | RCT | India | Victus | 56 | 63 | 1 day |
| Roberts 2019 | RCT | UK | LenSx | 200 | 200 | 4 weeks |
| Saeedi 2018 | PNR | USA | LenSx | 364 | 795 | 1 day |
| Schargus 2015 | RCT | Germany | Catalys | 37 | 37 | 6 months |
| Takács 2012 | RCT | Hungary | LenSx | 38 | 38 | 1 month |
| Titiyal 2016 | PNR | India | LenSx | 80 | 80 | 6 months |
| Titiyal 2018 | PNR | India | LenSx | 77 | 52 | 1 month |
| Tognetto 2018a+b | R | Italy | Catalys (a; n=50) / LenSx (b; n=50) | 100 | 50 | 1 day |
| Toto 2015 | RCT | Italy | LenSx | 40 | 40 | 6 months |
| Vasquez-Perez 2018 | PNR | UK | LDV Z8 | 45 | 45 | 1 day |
| Wang 2018 | PNR | China | LenSx | 58 | 34 | 3 months |
| Wei 2017 | R | China | LenSx | 12 | 38 | 1 month |
| Wei Dayna 2018 | R | Singapore | Catalys | 68 | 72 | 3 months |
| Whang 2018 | PNR | South Korea | Catalys | 83 | 83 | 3 months |
| Yu 2015 | RCT | China | LENSAR | 25 | 29 | 3 months |
| Yu 2016 | PNR | China | LenSx | 25 | 29 | 3 months |
| Zhu 2018 | R | USA | Catalys / LenSx / Victus | 64 | 143 | 6 months |