# Doodle description / summary

|  |
| --- |
| Describe what the doodle should look like, specifying colours etc., using sketches or drawings if useful.  Please include both front and side views if required. |
| The existing posterior capsule doodle requires a linked side view with the same properties:  (1) Opacity property – a layer of opacity, lining the posterior capsule (fill colour/styling as in the en face view).  Macintosh HD:Users:maria:Desktop:Screen Shot 2018-03-20 at 18.41.57.png  As the opacity value increases, the layer gets closer to the visual axis so that 2=to IOL edge, 3=within IOL but clear visual axis and 4=visual axis covered. The user could also use a handle on the drawing to alter the extent of opacification – this will automatically update the value in the drop down.  (2) A capsulotomy – indicated as a break in the posterior capsule  Macintosh HD:Users:maria:Desktop:Screen Shot 2018-03-20 at 16.47.56.png  If a YAG capsulotomy procedure is recorded, a PCIOL should be added to the canvas if not there already, and the posterior capsule doodle should default to opacity=3 and capsulotomy=Diamond. |

# Properties

*For property defaults and allowable ranges, it may be useful to describe these in relation to other drawing elements e.g. the anterior segment.*

|  |  |
| --- | --- |
| **Placement within the canvas** | |
| Default position | Centre of Anterior Segment |
| Does the user need to move the doodle about the canvas? | Y |
| Boundary range | Same as for current PCIOL cross section doodle (i.e. within anterior segment) |

|  |  |
| --- | --- |
| **Size** | |
| Does the user need to resize the doodle? | N |
| Should the doodle maintain its scale when resized? \* | N/A |
| Sizing constraints (minimum / maximum allowed) | N/A |
| Default size | N/A |

\* i.e. so that a square cannot be made into a rectangle!

|  |  |
| --- | --- |
| **Rotation** | |
| Does the user need to rotate the doodle around itself?  And/or around the canvas? | N  N |
| Allowable range | N/A |
| Default rotation | N/A |

|  |  |
| --- | --- |
| **Multiple doodles of this type** | |
| Can multiple doodles of this type exist within a single drawing? | N |
| How should subsequent doodles of this type be added to the drawing? | N |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Persistence** | | | | | | |
| Should this finding persist in future OE events and drawings? | | Y | | | | |
| **If yes, please indicate which canvas(es) the doodle should persist from and to using the matrix below \*** | | | | | | |
|  | | | ***To*** | | | |
| Examination | Operation note | Laser procedure | Intravitreal injection |
| ***From*** | Examination | | **X** | **X** | **X** | **X** |
| Operation note | | **X** | **X** | **X** | **X** |
| Laser procedure | | **X** | **X** | **X** | **X** |
| Intravitreal injection | | **X** | **X** | **X** | **X** |

\* If the doodle should only persist at certain times, please specify this in the relevant cell (e.g. from examination to Cataract operation note only).

# Control parameters

Using the tables below, please describe the data that should be captured in the blue pop-out controller.

You may add as many control parameters as required, or leave blank if no additional data should be recorded.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name / display label (including units if required) | Type | Allowable range / List values | Default value | How does this parameter affect the doodle display? \* |
| Opacity | list | 1,2,3,4 | 1 | An opacity ≥2 should be visualised in the doodle as indicated above: increasing the value should increase the opacity of the doodle fill style as in the en face view and the opacification extent so that it gets closer to the visual axis. |
| Capsulotomy | list | None, Diamond, Circle | None | Both diamond and circle are shown as a break in the posterior capsule.  None resets the posterior capsule doodle back to the default (no break). |

\* e.g. Changes opacity level

|  |  |
| --- | --- |
| **Parameter type** | **Description** |
| list | Drop down list of text values |
| freeText | Free textbox |
| bool | True / false checkbox |
| int | Positive integer value |
| float \* | Floating point value (decimal) |

\*If using *float,* please specify the required number of decimal places in the *Range / List values* box.

|  |
| --- |
| Does the doodle need to interact with any other form elements or doodles? |
| Displacing the doodle should displace the linked en face view, and vice versa.  Displacing the posterior capsule doodle (either the en face or side view) should displace the PCIOL, and vice versa. |

# Report output

|  |
| --- |
| What text should be displayed for this doodle in the report?  Please specify if the text should change with properties of the doodle. \* |
| The report for the existing Posterior capsule doodle needs to be reviewed, it currently reads:  If opacity = 2: “Mild PCO reducing the red reflex, Elschnig pearls to the IOL edge”,  If opacity = 3: “Moderate fibrosis or Elschnig pearls inside IOL edge, but with a clear visual axis”  If opacity = 4: “Severe fibrosis or Elschnig pearls covering the visual axis and severely reducing the red reflex”  If diamond capsulotomy: “with diamond shaped capsulotomy”  If circle capsulotomy: “with circle shaped capsulotomy” |

\* If multiple doodles of this type can be added to the canvas, please specify if a single description is required for all doodles of the type (e.g. sideport doodles), or if the descriptions should be listed separately (e.g. corneal opacity).

|  |
| --- |
| Should the presence of the doodle add a diagnosis for the patient? |
| Y – if the opacity property is ≥3 then add a diagnosis of *Posterior capsule opacification*.  However, if the capsulotomy property is changed to diamond or circle (i.e. a capsulotomy procedure has been performed), this diagnosis should be removed. |

|  |
| --- |
| Should the presence of the doodle trigger a risk to be added for the patient? \* |
| N |

\* Risks are shown in the patient summary pop up, and within OpenEyes events (e.g. the Risks element within the examination event).

Please list the SNOMED CT code(s) for this doodle. If more than one code is relevant, please provide the context for each code in the comments. You may add as many rows as required.

|  |  |  |
| --- | --- | --- |
| SNOMED CT code | SNOMED CT concept text | Comments |
| 47337003 | Posterior capsular opacification | If Opacity ≥3 AND Capsulotomy = None. |

|  |
| --- |
| Is the presence of this doodle an indicator for any risk stratification models?  E.g. NOD PCR risk calculator |
| N |

# Requirements sign off - to be signed off by user group representative.

*When no more changes are required, please indicate that they are complete by signing below.*

|  |  |
| --- | --- |
| **Initials** | **Date** |
|  |  |