

What is Figure Intelligence?

Figure Intelligence is the MoPro research-figure engine, Research Edition. Paste, upload or fetch your data, or pick a demo set; check the column types; let the Chart Advisor rank the chart types for your columns — raincloud, dot / strip, heatmap, box, violin, histogram, paired slope, scatter with regression; choose a journal size, and the figure draws in the MMSx Institute style with its APA 7 legend written for you. Diagram mode draws structured diagrams from their numbers, starting with the CONSORT 2010 flow. Export PNG renders the figure at 600 dpi, ready for the manuscript.

Data in, figure out

Paste CSV, TSV or Excel cells, upload a file, load a demo set or pull from an API / URL; columns are typed category or number.

Chart Advisor

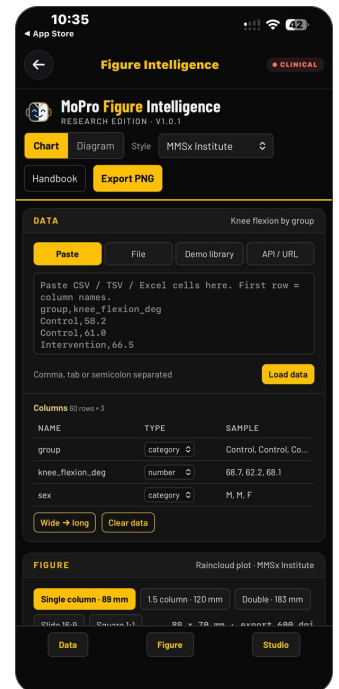
Ranks the chart types for your columns with a score and a reason: raincloud, dot / strip, heatmap, box, violin, histogram.

Journal sizes

Single column 89 mm, 1.5 column 120 mm, double 183 mm, slide 16:9, square 1:1 — exported at 600 dpi.

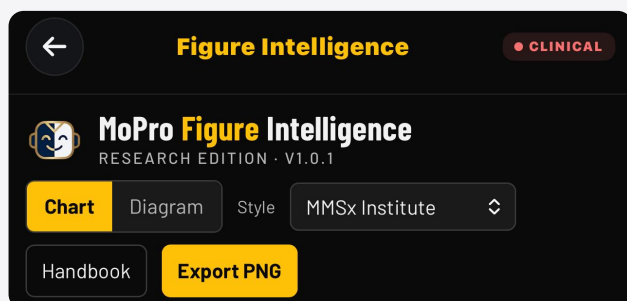
Legend and diagrams

Every figure comes with an APA 7 legend to copy; Diagram mode draws the CONSORT 2010 flow from its numbers.



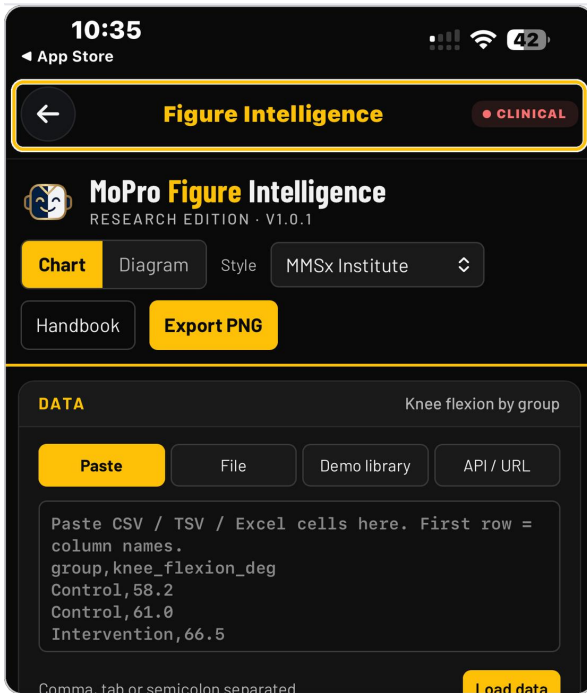
Where to find it

Open the TrainersEye app, go to the Dashboard and tap Figure Intelligence. It is a Clinical-plan tool — the CLINICAL badge sits beside the title.



This guide in thirteen steps

- 1 Open the tool
- 2 Chart or Diagram
- 3 Bring in data
- 4 Check the columns
- 5 The Chart Advisor
- 6 Set the chart type and axes
- 7 Choose the figure size
- 8 Read the figure
- 9 The APA 7 legend
- 10 Other chart types
- 11 Diagram mode: CONSORT inputs
- 12 The CONSORT diagram
- 13 Export PNG



PART 1 · GETTING STARTED

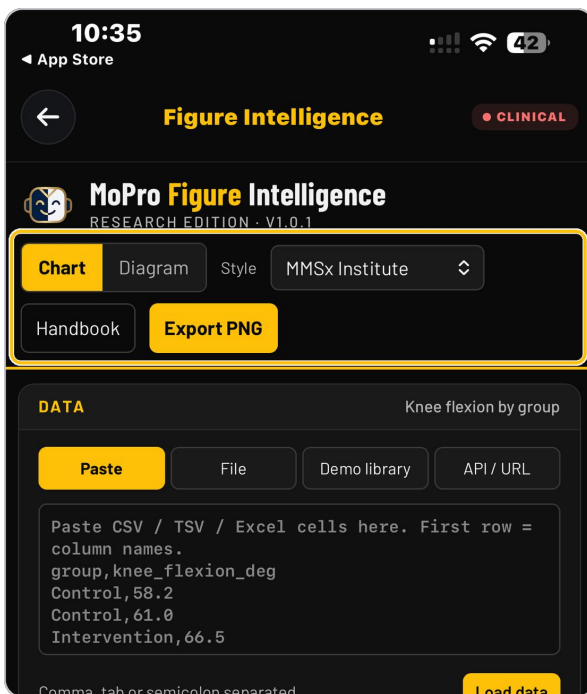
STEP 1

Open the tool

From the Dashboard, tap Figure Intelligence. It is a Clinical-plan tool – the CLINICAL badge sits beside the title. The header reads MoPro Figure Intelligence – Research Edition · V1.0.1.

TIP

The Data · Figure · Studio bar at the foot of the screen jumps between the three panels.



PART 1 · GETTING STARTED

STEP 2

Chart or Diagram

Chart draws a figure from your data; Diagram draws a structured diagram from its numbers – the CONSORT 2010 flow to start. Style sets the house look, MMSx Institute; Handbook opens the guidance; Export PNG renders the finished figure.

TIP

Switch between Chart and Diagram at any time – the Style applies to both.

RESEARCH EDITION · V1.0.1

Chart Diagram Style MMSx Institute

Handbook Export PNG

DATA Knee flexion by group

Paste File Demo library API / URL

Paste CSV / TSV / Excel cells here. First row = column names.
 group,knee_flexion_deg
 Control,58.2
 Control,61.0
 Intervention,66.5

Comma, tab or semicolon separated Load data

Columns 60 rows × 3

NAME	TYPE	SAMPLE
group	category	Control, Control, Co...
knee_flexion_deg	number	68.7, 62.2, 68.1

PART 2 · DATA TO FIGURE

STEP 3

Bring in data

The Data panel takes your data four ways: Paste CSV, TSV or Excel cells (first row = column names; comma, tab or semicolon separated), File, Demo library or API / URL. Tap Load data.

TIP

The demo library gives you a ready set — Knee flexion by group — to learn the tool before you bring your own.

Paste CSV / TSV / Excel cells here. First row = column names.
 group,knee_flexion_deg
 Control,58.2
 Control,61.0
 Intervention,66.5

Comma, tab or semicolon separated Load data

Columns 60 rows × 3

NAME	TYPE	SAMPLE
group	category	Control, Control, Co...
knee_flexion_deg	number	68.7, 62.2, 68.1
sex	category	M, M, F

Wide → long Clear data

FIGURE Raincloud plot · MMSx Institute

Single column · 89 mm 1.5 column · 120 mm Double · 183 mm

Slide 16:9 Square 1:1 89 × 79 mm · export 600 dpi

PART 2 · DATA TO FIGURE

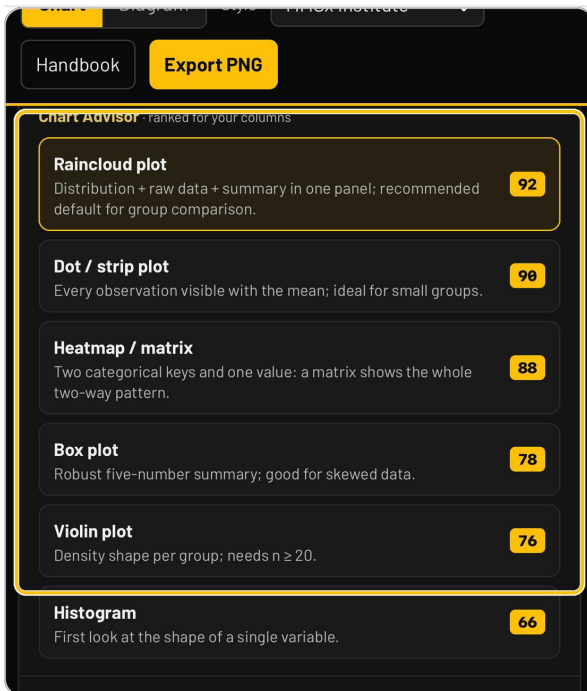
STEP 4

Check the columns

Loaded data shows as Columns — 60 rows × 3 — with each column's name, type and sample: group (category), knee_flexion_deg (number), sex (category). Change a type if it was read wrongly; Wide → long reshapes a wide table; Clear data starts again.

TIP

Types drive the advice: a category column becomes the axis, a number column the value.



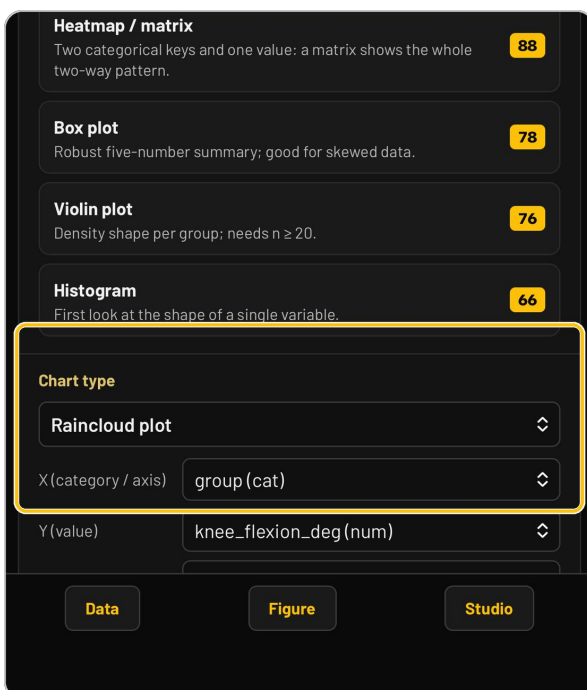
PART 2 · DATA TO FIGURE

STEP 5 The Chart Advisor

Chart Advisor ranks the chart types for your columns, each with a score and a reason: Raincloud plot 92 — distribution, raw data and summary in one panel, the recommended default for group comparison; Dot / strip plot 90; Heatmap / matrix 88; Box plot 78; Violin plot 76 (needs $n \geq 20$); Histogram 66.

TIP

Take the top score unless you have a reason not to; the reason line tells you what each chart is for.



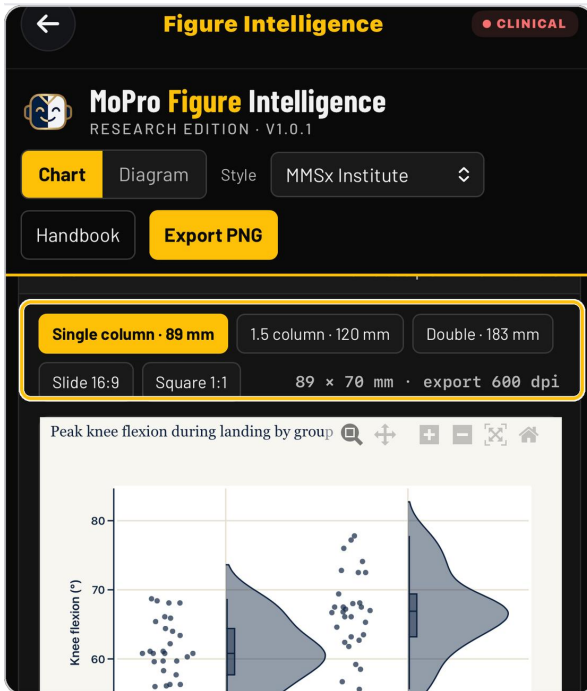
PART 2 · DATA TO FIGURE

STEP 6 Set the chart type and axes

Chart type picks the chart; X (category / axis) takes the grouping column — group (cat); Y (value) takes the number — knee_flexion_deg (num). Further options follow below.

TIP

A wrong axis choice is the commonest reason a chart looks odd — check that X is the category and Y the number.



PART 2 · DATA TO FIGURE

STEP 7

Choose the figure size

The size chips set the journal size: Single column · 89 mm, 1.5 column · 120 mm, Double · 183 mm, Slide 16:9, Square 1:1. The readout confirms the dimensions and the export resolution — 89 × 70 mm · export 600 dpi.

TIP

Pick the size before you judge the figure — labels and points scale to it.



PART 2 · DATA TO FIGURE

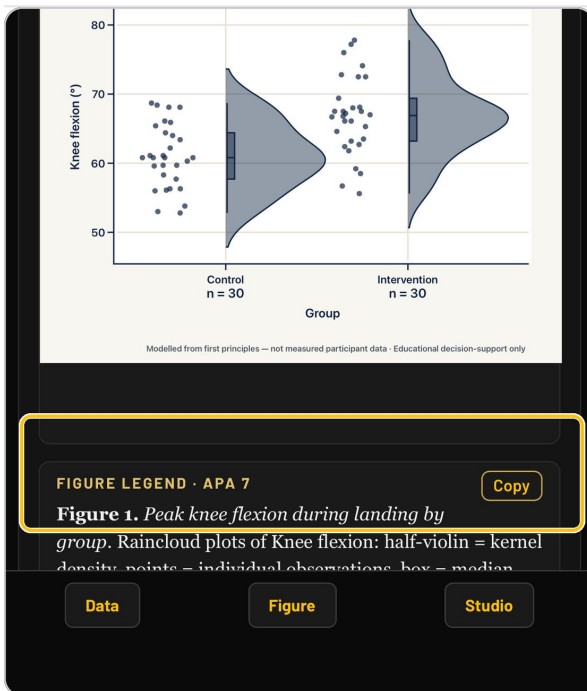
STEP 8

Read the figure

The figure draws in the MMSx Institute style: title, axis with unit, group labels with n. In a raincloud the half-violin is the kernel density, the points are the individual observations and the box the median and quartiles. The toolbar zooms, pans and resets; the footer line states the data's provenance — for the demo set, modelled from first principles, not measured participant data.

TIP

Zoom and pan are for checking; the exported PNG is the figure as printed.



PART 2 · DATA TO FIGURE

STEP 9

The APA 7 legend

Every figure comes with its legend written in APA 7 — Figure 1. Peak knee flexion during landing by group. Raincloud plots of knee flexion: half-violin = kernel density, points = individual observations, box = median... — with a Copy button for the manuscript.

TIP

Copy the legend as the figure's caption and edit the figure number to match your paper.



PART 3 · MORE CHARTS AND DIAGRAMS

STEP 10

Other chart types

The same data panel drives every chart: heatmap / matrix for two categorical keys and one value (muscle × exercise), paired slope for pre-post with the mean change and n, scatter with regression with r, R² and n per group, and dot / strip, box, violin and histogram.

TIP

Each figure keeps the same size chips, readout, toolbar and APA legend.

PART 3 · MORE CHARTS AND DIAGRAMS

STEP 11

Diagram mode: CONSORT inputs

Diagram opens the Diagram inputs – CONSORT 2010 flow: Enrolment (assessed for eligibility, excluded in total, exclusion reasons one per line as reason: n, randomised), Arms (one name per line), the per-arm numbers in the same order (allocated, received allocated intervention, lost to follow-up, discontinued intervention) and the Labels, such as the analysis population.

TIP

Keep the per-arm lines in the same order as the arm names – the diagram reads them by position.

Chart
 Diagram
 Style
 MMSx Institute

Handbook
 Export PNG

DIAGRAM INPUTS
 CONSORT 2010 flow diagram

Diagram
 CONSORT 2010 flow

ENROLMENT

Assessed for eligibility
 120

Excluded (total)
 40

Exclusion reasons (one per line: reason: n)
 Not meeting inclusion criteria: 28
 Declined to participate: 9

Randomised
 80

ARMS

Arm names (one per line)
 Intervention
 Control

PART 3 · MORE CHARTS AND DIAGRAMS

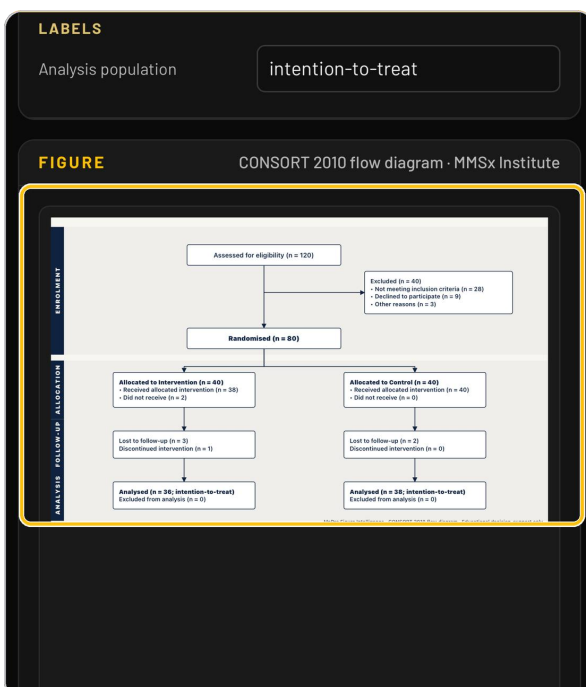
STEP 12

The CONSORT diagram

The diagram draws itself from the numbers: assessed for eligibility, excluded with reasons, randomised, allocated and received per arm, lost to follow-up and discontinued, analysed per arm with the analysis population – banded Enrolment, Allocation, Follow-up and Analysis, in the MMSx Institute style with its footer line.

TIP

Change a number and the whole diagram updates – nothing is redrawn by hand.



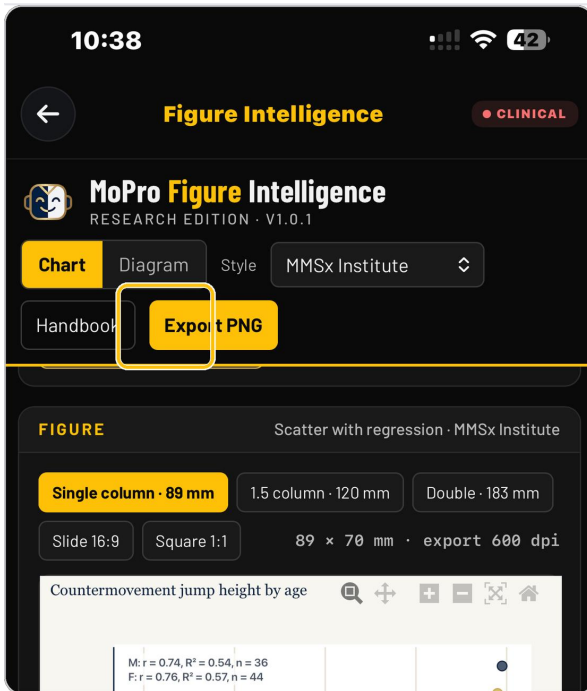
PART 4 · EXPORT

 STEP **13**
Export PNG

Export PNG renders the figure at the chosen size and 600 dpi – a single column at 89 × 70 mm exports at 2100 × 1650 pixels – with its footer line, ready for the manuscript. Save it to Files or share it from the phone.

TIP

Export once per size you need; the legend is copied separately.

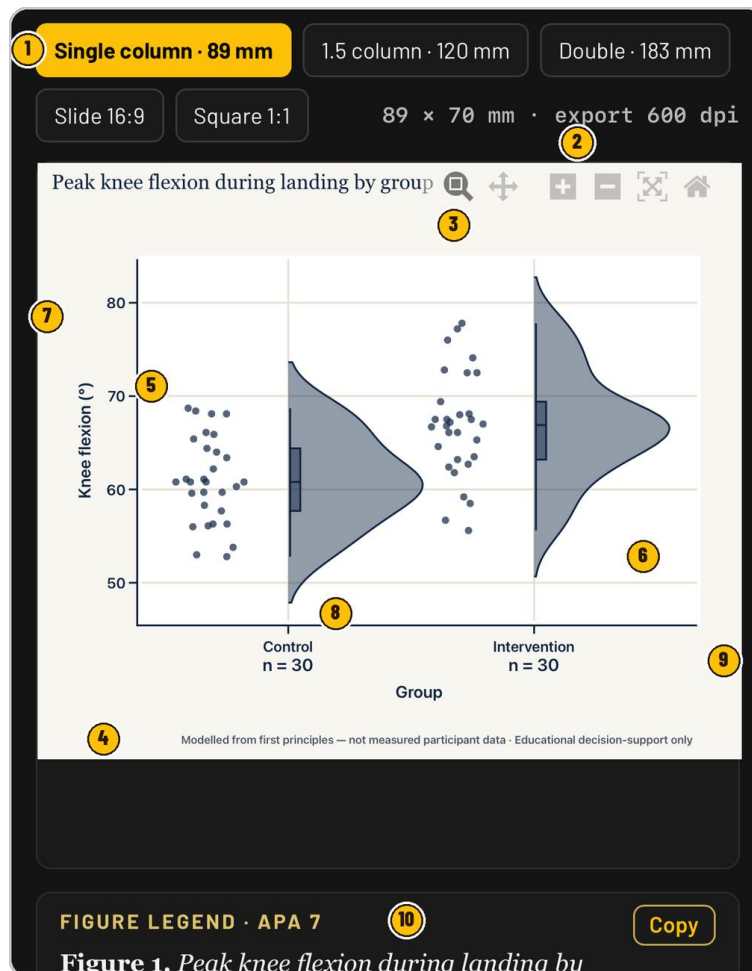


You're ready

That's it. Open Figure Intelligence, load a demo set and let the Advisor pick the chart.

Reading a working figure

A raincloud plot as it stands in the Figure panel – size, figure and legend together. Here is what each part means.



- 1 Size chips**
Single column 89 mm, 1.5 column 120 mm, double 183 mm, slide 16:9, square 1:1.
- 2 Size and export readout**
The figure's dimensions in millimetres and the export resolution – 600 dpi.
- 3 Title**
Sentence-case title in the house serif.
- 4 Provenance footer**
Where the data comes from – the demo set is modelled from first principles, not measured participant data; educational decision-support only.
- 5 Points**
Every individual observation, jittered beside its group.
- 6 Half-violin**
The kernel density – the shape of the distribution.
- 7 Axis and unit**
Knee flexion in degrees, on a journal grid.
- 8 Box**
Median and quartiles inside the density.
- 9 Group labels with n**
Each group named with its sample size.
- 10 APA 7 legend and Copy**
The legend written for the figure, ready to copy as its caption.

Move with **Precision.** Live with **Confidence.**

FIGURE INTELLIGENCE IS PART OF TRAINERSEYE

Support: support@trainerseye.com · trainerseye.com

MoPro Figure Intelligence, Research Edition · Backed by MMSx Authority Institute

Research figures — a figure is only as good as the data behind it: the demo sets are modelled from first principles, not measured participant data, and say so in their footer. Educational decision-support only; not medical advice.