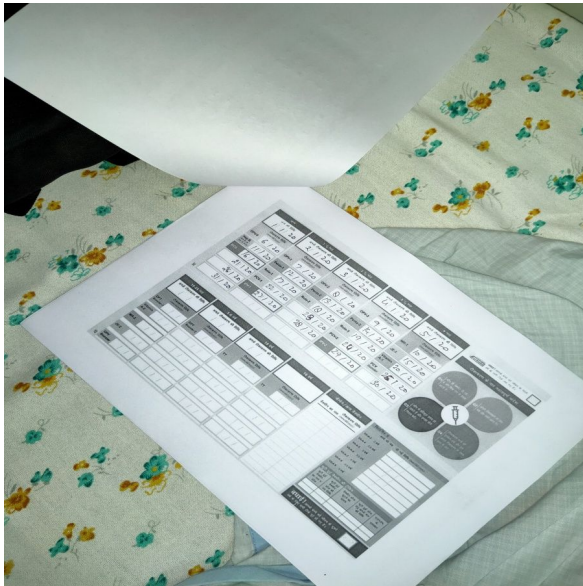


Image Alignment

We find the lines in the images, as most of the lines are horizontal in the form, the median is most probably give the alignment of the form. So, rotate by that amount.



100%	75%	50%	25%	0%					
10/19	20/19	30/19	40/19	50/19					
CPA1	60/19	CPA2	70/19	CPA3	80/19	CPA4	90/19	CPA5	100/19
CPA6	110/19	CPA7	120/19	CPA8	130/19	CPA9	140/19	CPA10	150/19
CPA11	160/19	CPA12	170/19	CPA13	180/19	CPA14	190/19	CPA15	200/19
CPA16	210/19	CPA17	220/19	CPA18	230/19	CPA19	240/19	CPA20	250/19
CPA21	260/19	CPA22	270/19	CPA23	280/19	CPA24	290/19	CPA25	300/19
CPA26	310/19	CPA27	320/19	CPA28	330/19	CPA29	340/19	CPA30	350/19
CPA31	360/19	CPA32	370/19	CPA33	380/19	CPA34	390/19	CPA35	400/19
CPA36	410/19	CPA37	420/19	CPA38	430/19	CPA39	440/19	CPA40	450/19
CPA41	460/19	CPA42	470/19	CPA43	480/19	CPA44	490/19	CPA45	500/19
CPA46	510/19	CPA47	520/19	CPA48	530/19	CPA49	540/19	CPA50	550/19
CPA51	560/19	CPA52	570/19	CPA53	580/19	CPA54	590/19	CPA55	600/19
CPA56	610/19	CPA57	620/19	CPA58	630/19	CPA59	640/19	CPA60	650/19
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CPA66	710/19	CPA67	720/19	CPA68	730/19	CPA69	740/19	CPA70	750/19
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CPA96	1010/19	CPA97	1020/19	CPA98	1030/19	CPA99	1040/19	CPA100	1050/19
CPA101	1060/19	CPA102	1070/19	CPA103	1080/19	CPA104	1090/19	CPA105	1100/19
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CPA201	2060/19	CPA202	2070/19	CPA203	2080/19	CPA204	2090/19	CPA205	2100/19
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CPA211	2160/19	CPA212	2170/19	CPA213	2180/19	CPA214	2190/19	CPA215	2200/19
CPA216	2210/19	CPA217	2220/19	CPA218	2230/19	CPA219	2240/19	CPA220	2250/19
CPA221	2260/19	CPA222	2270/19	CPA223	2280/19	CPA224	2290/19	CPA225	2300/19
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CPA236	2410/19	CPA237	2420/19	CPA238	2430/19	CPA239	2440/19	CPA240	2450/19
CPA241	2460/19	CPA242	2470/19	CPA243	2480/19	CPA244	2490/19	CPA245	2500/19
CPA246	2510/19	CPA247	2520/19	CPA248	2530/19	CPA249	2540/19	CPA250	2550/19
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CPA391	3960/19	CPA392	3970/19	CPA393	3980/19	CPA394	3990/19	CPA395	4000/19
CPA396	4010/19	CPA397	4020/19	CPA398	4030/19	CPA399	4040/19	CPA400	4050/19
CPA401	4060/19	CPA402	4070/19	CPA403	4080/19	CPA404	4090/19	CPA405	4100/19
CPA406	4110/19	CPA407	4120/19	CPA408	4130/19	CPA409	4140/19	CPA410	4150/19
CPA411	4160/19	CPA412	4170/19	CPA413	4180/19	CPA414	4190/19	CPA415	4200/19
CPA416	4210/19	CPA417	4220/19	CPA418	4230/19	CPA419	4240/19	CPA420	4250/19
CPA421	4260/19	CPA422	4270/19	CPA423	4280/19	CPA424	4290/19	CPA425	4300/19
CPA426	4310/19	CPA427	4320/19	CPA428	4330/19	CPA429	4340/19	CPA430	4350/19
CPA431	4360/19	CPA432	4370/19	CPA433	4380/19	CPA434	4390/19	CPA435	4400/19
CPA436	4410/19	CPA437	4420/19	CPA438	4430/19	CPA439	4440/19	CPA440	4450/19
CPA441	4460/19	CPA442	4470/19	CPA443	4480/19	CPA444	4490/19	CPA445	4500/19
CPA446	4510/19	CPA447	4520/19	CPA448	4530/19	CPA449	4540/19	CPA450	4550/19
CPA451	4560/19	CPA452	4570/19	CPA453	4580/19	CPA454	4590/19	CPA455	4600/19
CPA456	4610/19	CPA457	4620/19	CPA458	4630/19	CPA459	4640/19	CPA460	4650/19
CPA461	4660/19	CPA462	4670/19	CPA463	4680/19	CPA464	4690/19	CPA465	4700/19
CPA466	4710/19	CPA467	4720/19	CPA468	4730/19	CPA469	4740/19	CPA470	4750/19
CPA471	4760/19	CPA472	4770/19	CPA473	4780/19	CPA474	4790/19	CPA475	4800/19
CPA476	4810/19	CPA477	4820/19	CPA478	4830/19	CPA479	4840/19	CPA480	4850/19
CPA481	4860/19	CPA482	4870/19	CPA483	4880/19	CPA484	4890/19	CPA485	4900/19
CPA486	4910/19	CPA487	4920/19	CPA488	4930/19	CPA489	4940/19	CPA490	4950/19
CPA491	4960/19	CPA492	4970/19	CPA493	4980/19	CPA494	4990/19	CPA495	5000/19
CPA496	5010/19	CPA497	5020/19	CPA498	5030/19	CPA499	5040/19	CPA500	5050/19
CPA501	5060/19	CPA502	5070/19	CPA503	5080/19	CPA504	5090/19	CPA505	5100/19
CPA506	5110/19	CPA507	5120/19	CPA508	5130/19	CPA509	5140/19	CPA510	5150/19
CPA511	5160/19	CPA512	5170/19	CPA513	5180/19	CPA514	5190/19	CPA515	5200/19
CPA516	5210/19	CPA517	5220/19	CPA518	5230/19	CPA519	5240/19	CPA520	5250/19
CPA521	5260/19	CPA522	5270/19	CPA523	5280/19	CPA524	5290/19	CPA525	5300/19
CPA526	5310/19	CPA527	5320/19	CPA528	5330/19	CPA529	5340/19	CPA530	5350/19
CPA531	5360/19	CPA532	5370/19	CPA533	5380/19				

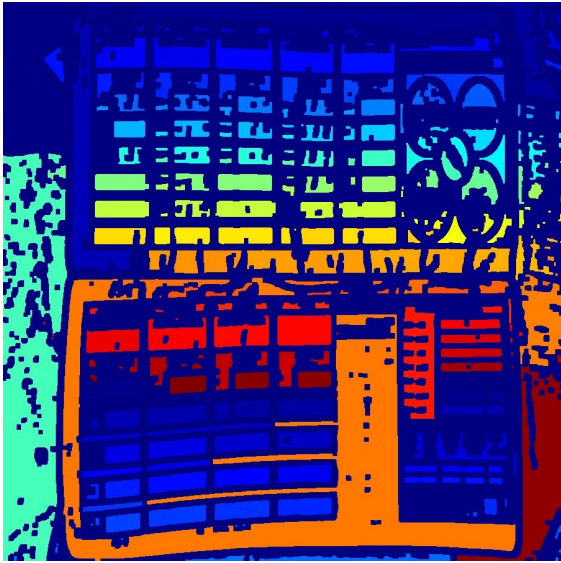
The image shows two pages of a vaccination booklet. The top page is the front cover, and the bottom page is the back cover. Both pages contain a grid of boxes for recording vaccination status. The top page has columns for age groups (0-11 months, 1-11 months, 1-2 years, 2-5 years, 5-9 years) and rows for various vaccines (OPV, Hep B, BCG, Rotavirus, PCV, IPV, JE, Vitamin A). The bottom page has columns for age groups (16-24 months, 5-6 years, 10 years, 16 years) and rows for various vaccines (DPT, Vitamin A, MR, JE, OPV). Both pages include a section for 'Vaccination Status' and a 'Vaccination Card'.

Form Field Segmentation

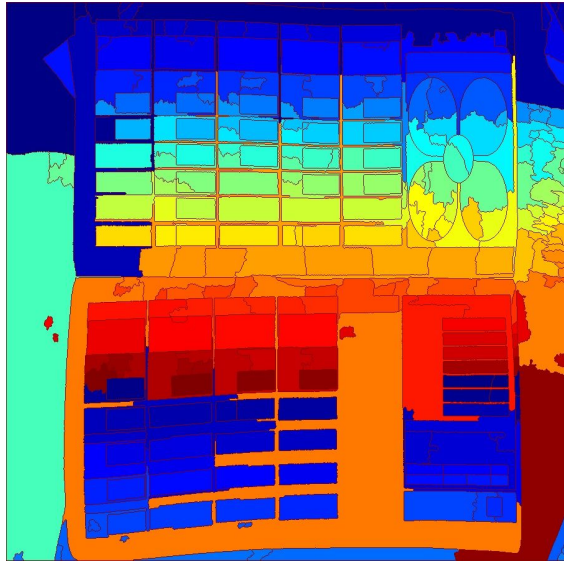
We created markers by adaptive thresholding followed by morphological operations and then applied watershed segmentation.

Booklet Data

This image shows the same vaccination booklet as the previous one, but with yellow outlines indicating the segmented form fields. The segmentation is applied to the entire document, including the text and the grid boxes. The front page has columns for age groups (0-11 months, 1-11 months, 1-2 years, 2-5 years, 5-9 years) and rows for various vaccines (OPV, Hep B, BCG, Rotavirus, PCV, IPV, JE, Vitamin A). The back page has columns for age groups (16-24 months, 5-6 years, 10 years, 16 years) and rows for various vaccines (DPT, Vitamin A, MR, JE, OPV).

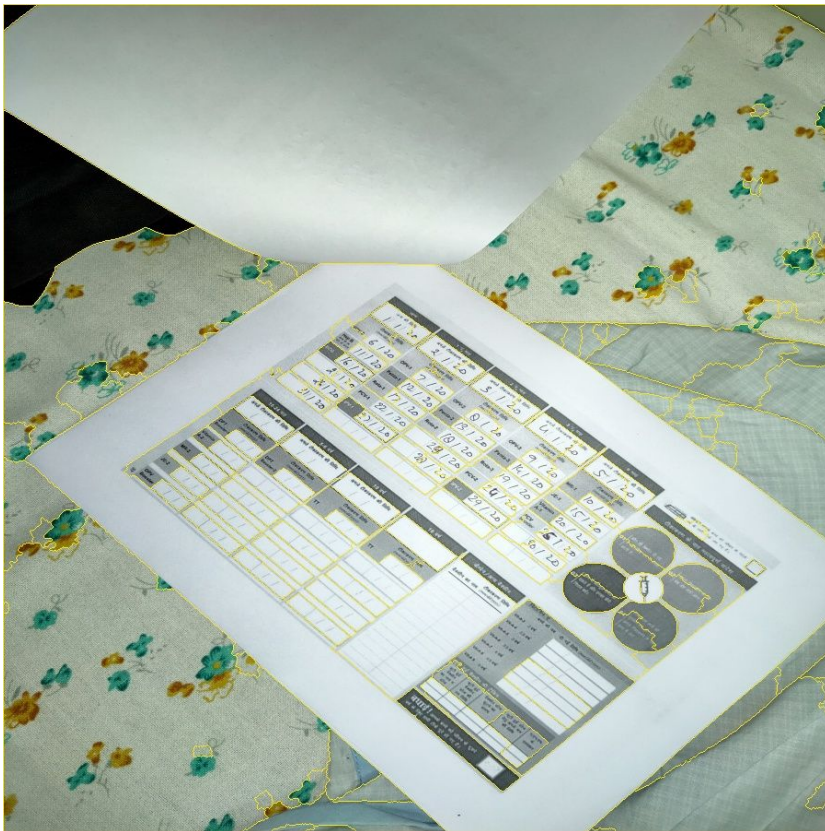


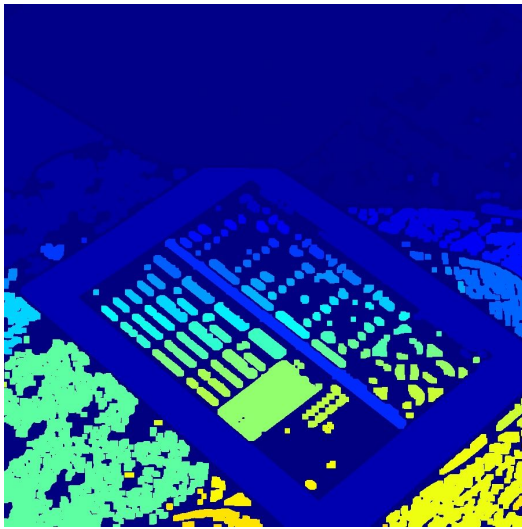
Markers



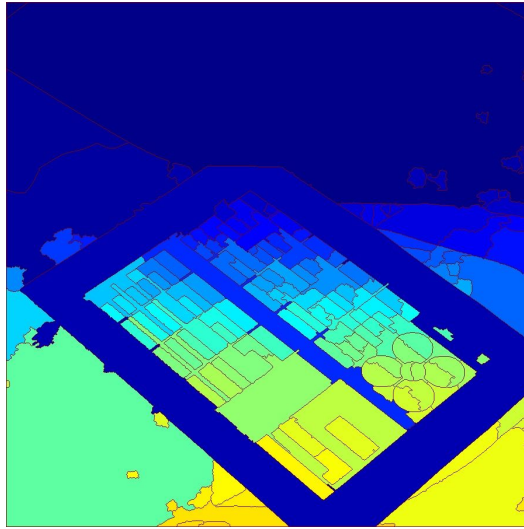
Watershed Segmentation

PrintOut Data





Markers

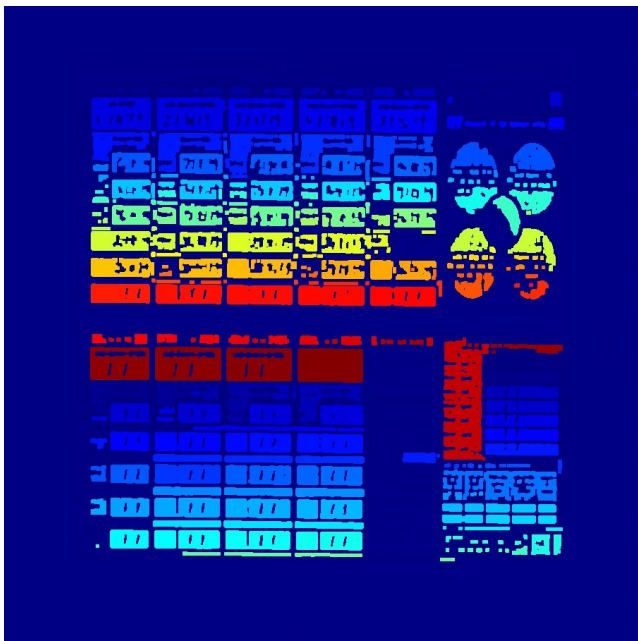


WaterShed Segmentation

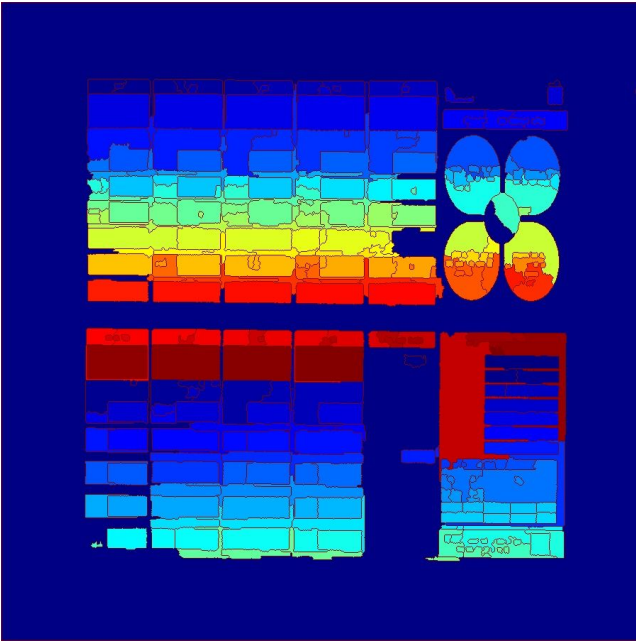
Scanned Data

1	2	3	4	5
1/1/19	2/1/19	3/1/19	4/1/19	5/1/19
OPV1	OPV1	OPV2	OPV3	MR-1
6/1/19	7/1/19	8/1/19	9/1/19	10/1/19
11/1/19	12/1/19	13/1/19	14/1/19	15/1/19
16/1/19	17/1/19	18/1/19	19/1/19	20/1/19
21/1/19	22/1/19	23/1/19	24/1/19	25/1/19
26/1/19	27/1/19	28/1/19	29/1/19	30/1/19

1	2	3	4
1/1/19	2/1/19	3/1/19	4/1/19
OPV1	OPV1	OPV2	OPV3
5/1/19	6/1/19	7/1/19	8/1/19
9/1/19	10/1/19	11/1/19	12/1/19
13/1/19	14/1/19	15/1/19	16/1/19
17/1/19	18/1/19	19/1/19	20/1/19
21/1/19	22/1/19	23/1/19	24/1/19
25/1/19	26/1/19	27/1/19	28/1/19
29/1/19	30/1/19	31/1/19	32/1/19



Markers



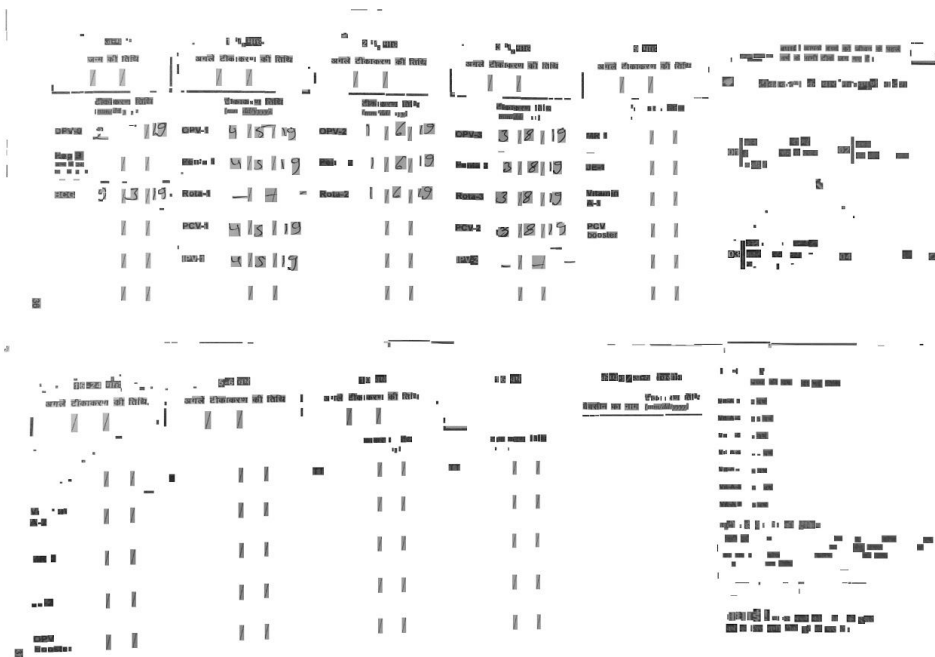
WaterShed Segmentation

Character Detection

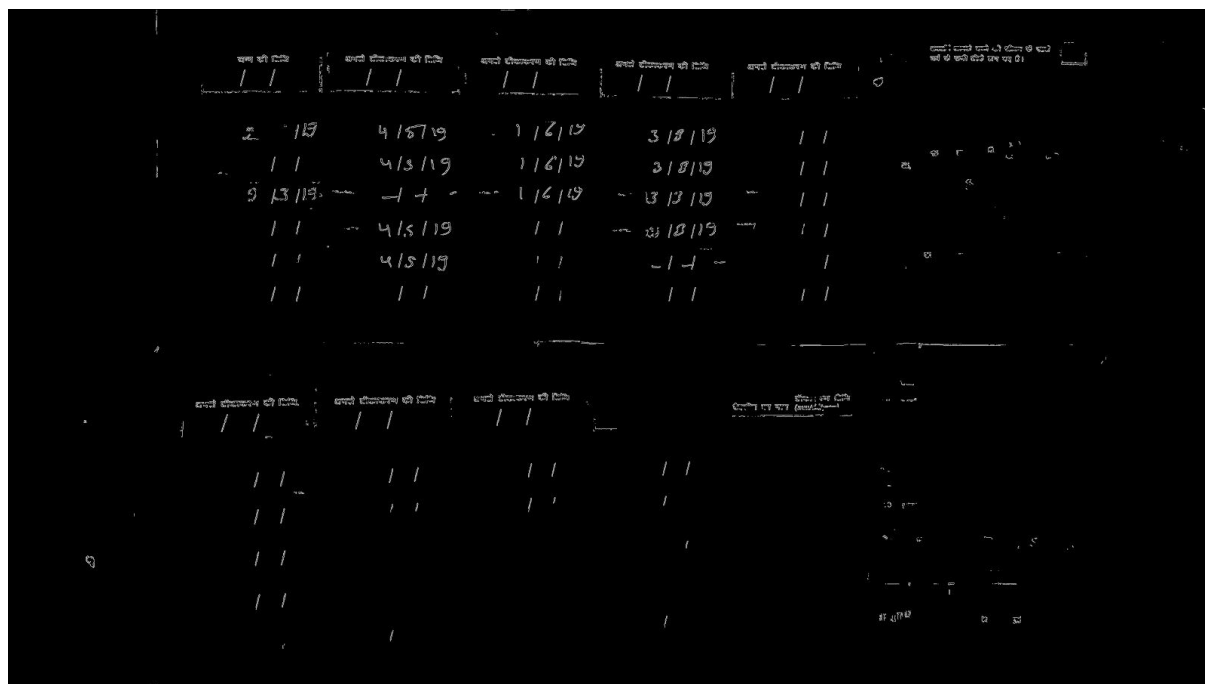
We first used the intersection of MSER detection and Canny Edge Detection for extracting the characters then improved the detection by removing False positives by factors such as aspect ratio, perimeter to area ratio and area of contours.

Booklet data





MSER Detected Regions



The intersection of Canny Edge Detection and MSER results.

...
...	4/5/19	1/1/19	3/1/19	1/1
1/1	4/5/19	1/6/19	3/8/19	1/1
5/13/19	1/4/19	1/6/19	3/13/19	1/1
1/1	4/5/19	1/1	3/18/19	1/1
1/1	4/5/19	1/1	1/4/19	1
1/1	1/1	1/1	1/1	1/1

After post-processing

...
...	4/5/19	1/1/19	3/1/19	1/1
1/1	6/9	3/1/19	1/1	
5/13/19	1/4/19	1/6/19	3/13/19	1/1
1/1	4/5/19	1/1	3/18/19	1/1
1/1	4/5/19	1/1	1/4/19	1
1/1	1/1	1/1	1/1	1/1

Connected Components

Print Data

Original

The chart is titled 'Vaccination Schedule for Children' in Hindi. It is divided into two main sections: '0-12 months' and '1-12 years'. Each section contains a grid of boxes for different vaccines, with columns for the vaccine name, the age in months, and the number of doses. The chart is designed to be used by parents or healthcare providers to track a child's vaccination status.

0-12 months section:

- OPV-1:** 2, 4, 6, 18 months (4 doses)
- OPV-2:** 2, 4, 6, 18 months (4 doses)
- OPV-3:** 2, 4, 6, 18 months (4 doses)
- OPV-4:** 2, 4, 6, 18 months (4 doses)
- OPV-5:** 2, 4, 6, 18 months (4 doses)
- OPV-6:** 2, 4, 6, 18 months (4 doses)
- OPV-7:** 2, 4, 6, 18 months (4 doses)
- OPV-8:** 2, 4, 6, 18 months (4 doses)
- OPV-9:** 2, 4, 6, 18 months (4 doses)
- OPV-10:** 2, 4, 6, 18 months (4 doses)
- OPV-11:** 2, 4, 6, 18 months (4 doses)
- OPV-12:** 2, 4, 6, 18 months (4 doses)
- OPV-13:** 2, 4, 6, 18 months (4 doses)
- OPV-14:** 2, 4, 6, 18 months (4 doses)
- OPV-15:** 2, 4, 6, 18 months (4 doses)
- OPV-16:** 2, 4, 6, 18 months (4 doses)
- OPV-17:** 2, 4, 6, 18 months (4 doses)
- OPV-18:** 2, 4, 6, 18 months (4 doses)
- OPV-19:** 2, 4, 6, 18 months (4 doses)
- OPV-20:** 2, 4, 6, 18 months (4 doses)
- OPV-21:** 2, 4, 6, 18 months (4 doses)
- OPV-22:** 2, 4, 6, 18 months (4 doses)
- OPV-23:** 2, 4, 6, 18 months (4 doses)
- OPV-24:** 2, 4, 6, 18 months (4 doses)
- OPV-25:** 2, 4, 6, 18 months (4 doses)
- OPV-26:** 2, 4, 6, 18 months (4 doses)
- OPV-27:** 2, 4, 6, 18 months (4 doses)
- OPV-28:** 2, 4, 6, 18 months (4 doses)
- OPV-29:** 2, 4, 6, 18 months (4 doses)
- OPV-30:** 2, 4, 6, 18 months (4 doses)
- OPV-31:** 2, 4, 6, 18 months (4 doses)
- OPV-32:** 2, 4, 6, 18 months (4 doses)
- OPV-33:** 2, 4, 6, 18 months (4 doses)
- OPV-34:** 2, 4, 6, 18 months (4 doses)
- OPV-35:** 2, 4, 6, 18 months (4 doses)
- OPV-36:** 2, 4, 6, 18 months (4 doses)
- OPV-37:** 2, 4, 6, 18 months (4 doses)
- OPV-38:** 2, 4, 6, 18 months (4 doses)
- OPV-39:** 2, 4, 6, 18 months (4 doses)
- OPV-40:** 2, 4, 6, 18 months (4 doses)
- OPV-41:** 2, 4, 6, 18 months (4 doses)
- OPV-42:** 2, 4, 6, 18 months (4 doses)
- OPV-43:** 2, 4, 6, 18 months (4 doses)
- OPV-44:** 2, 4, 6, 18 months (4 doses)
- OPV-45:** 2, 4, 6, 18 months (4 doses)
- OPV-46:** 2, 4, 6, 18 months (4 doses)
- OPV-47:** 2, 4, 6, 18 months (4 doses)
- OPV-48:** 2, 4, 6, 18 months (4 doses)
- OPV-49:** 2, 4, 6, 18 months (4 doses)
- OPV-50:** 2, 4, 6, 18 months (4 doses)
- OPV-51:** 2, 4, 6, 18 months (4 doses)
- OPV-52:** 2, 4, 6, 18 months (4 doses)
- OPV-53:** 2, 4, 6, 18 months (4 doses)
- OPV-54:** 2, 4, 6, 18 months (4 doses)
- OPV-55:** 2, 4, 6, 18 months (4 doses)
- OPV-56:** 2, 4, 6, 18 months (4 doses)
- OPV-57:** 2, 4, 6, 18 months (4 doses)
- OPV-58:** 2, 4, 6, 18 months (4 doses)
- OPV-59:** 2, 4, 6, 18 months (4 doses)
- OPV-60:** 2, 4, 6, 18 months (4 doses)
- OPV-61:** 2, 4, 6, 18 months (4 doses)
- OPV-62:** 2, 4, 6, 18 months (4 doses)
- OPV-63:** 2, 4, 6, 18 months (4 doses)
- OPV-64:** 2, 4, 6, 18 months (4 doses)
- OPV-65:** 2, 4, 6, 18 months (4 doses)
- OPV-66:** 2, 4, 6, 18 months (4 doses)
- OPV-67:** 2, 4, 6, 18 months (4 doses)
- OPV-68:** 2, 4, 6, 18 months (4 doses)
- OPV-69:** 2, 4, 6, 18 months (4 doses)
- OPV-70:** 2, 4, 6, 18 months (4 doses)
- OPV-71:** 2, 4, 6, 18 months (4 doses)
- OPV-72:** 2, 4, 6, 18 months (4 doses)
- OPV-73:** 2, 4, 6, 18 months (4 doses)
- OPV-74:** 2, 4, 6, 18 months (4 doses)
- OPV-75:** 2, 4, 6, 18 months (4 doses)
- OPV-76:** 2, 4, 6, 18 months (4 doses)
- OPV-77:** 2, 4, 6, 18 months (4 doses)
- OPV-78:** 2, 4, 6, 18 months (4 doses)
- OPV-79:** 2, 4, 6, 18 months (4 doses)
- OPV-80:** 2, 4, 6, 18 months (4 doses)
- OPV-81:** 2, 4, 6, 18 months (4 doses)
- OPV-82:** 2, 4, 6, 18 months (4 doses)
- OPV-83:** 2, 4, 6, 18 months (4 doses)
- OPV-84:** 2, 4, 6, 18 months (4 doses)
- OPV-85:** 2, 4, 6, 18 months (4 doses)
- OPV-86:** 2, 4, 6, 18 months (4 doses)
- OPV-87:** 2, 4, 6, 18 months (4 doses)
- OPV-88:** 2, 4, 6, 18 months (4 doses)
- OPV-89:** 2, 4, 6, 18 months (4 doses)
- OPV-90:** 2, 4, 6, 18 months (4 doses)
- OPV-91:** 2, 4, 6, 18 months (4 doses)
- OPV-92:** 2, 4, 6, 18 months (4 doses)
- OPV-93:** 2, 4, 6, 18 months (4 doses)
- OPV-94:** 2, 4, 6, 18 months (4 doses)
- OPV-95:** 2, 4, 6, 18 months (4 doses)
- OPV-96:** 2, 4, 6, 18 months (4 doses)
- OPV-97:** 2, 4, 6, 18 months (4 doses)
- OPV-98:** 2, 4, 6, 18 months (4 doses)
- OPV-99:** 2, 4, 6, 18 months (4 doses)
- OPV-100:** 2, 4, 6, 18 months (4 doses)

1-12 years section:

- OPV-1:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-2:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-3:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-4:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-5:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-6:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-7:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-8:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-9:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-10:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)
- OPV-11:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months (12 doses)



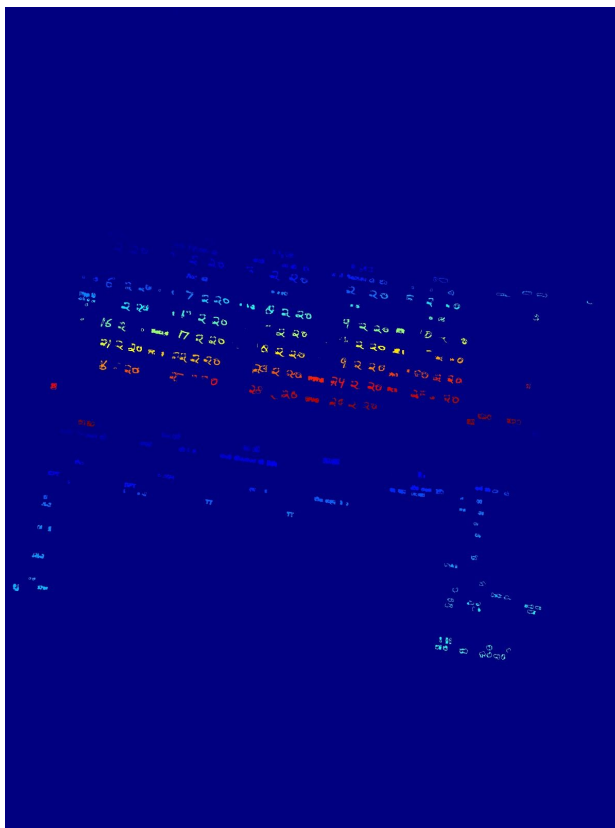
MSER Detection



Canny Edge \cap MSER Detection



After Post Processing



Connected Components

डी	डी	डी	डी	डी	डी
18/19	28/19	38/19	48/19	58/19	
DP	OPV	OPV2	3	M	
68/19	78/19	88/19	98/19	108/19	
Hepp B		P	ma	E	
18/19	128/19	138/19	148/19	158/19	
168/19	Rota	Rota2	R ta3	Vitamin A	
218/19	178/19	188/19	198/19	208/19	
28/19	PCV	8/19	248/19	PCV	
268/19	278/19	288/19	298/19	308/19	
318/19					

Canny Edge \cap MSER Detection

After Post Processing

$18/19$ $28/19$ $38/19$ $48/19$ $58/19$
 $= 68/19$ $78/19$ $88/19$ $\cdot 98/19$ $= 108/19$
 $118/19$ $128/19$ $\cdot 138/19$ $= 148/19$ $\cdot 158/19$
 $168/19$ $178/19$ $\cdot 188/19$ $= 198/19$ $\cdot 208/19$
 $218/19$ $228/19$ $\cdot 238/19$ $\cdot 248/19$ $258/19$
 $268/19$ $278/19$ $288/19$ $298/19$ $308/19$ \rightarrow \dots
 $318/19$



Connected Components